



2013-14 Catalog

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2013-14 Catalog

CATALOG CHANGES

Northwestern College reserves the right to change academic requirements or policies, as stated in this catalog, at the beginning of each semester, with proper notification of such changes to be distributed to all students and faculty.

Accreditation

Northwestern College is accredited by The Higher Learning Commission and a member of the North Central Association, located at 30 North LaSalle Street, Suite 2400, Chicago, Illinois 60602-2504 (Telephone 312- 263-0456). Individual programs are accredited by the Iowa Department of Education, the National Council for Accreditation of Teacher Education, the Commission on Accreditation of Athletic Education, the International Assembly for Collegiate Business Education, the Council on Social Work Education and the Commission on Collegiate Nursing Education. The Nursing program is approved by the Iowa Board of Nursing. Accreditation documents are located in the Office of the President.

Notice of nondiscrimination

Applicants for admission and employment, students, parents of students, employees, sources of referral of applicants for admission and employment and all organizations holding professional agreements with Northwestern College are hereby notified that this institution does not discriminate on the basis of race, color, national origin, sex, age, or handicap in admission, access to, or employment in, its programs and activities. Any person having inquiries concerning Northwestern College's compliance with the regulations implementing Title VI, Title IX, or Section 504 is directed to contact Bill Minnick, Northwestern College, Orange City, Iowa 51041 (Telephone 712-707-7225). He has been designated by Northwestern College to coordinate the institution's efforts to comply with the regulations implementing Title VI, Title IX, or Section 504. Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education, regarding this institution's compliance.

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The Northwestern mission

Mission Statement

Northwestern College is a Christian academic community engaging students in courageous and faithful learning and living that empowers them to follow Christ and pursue God's redeeming work in the world.

Identity Statement

Northwestern College is a Christian college in the Reformed tradition, founded in 1882 by the Reformed Church in America. We are committed to providing a Christian liberal arts education in an undergraduate, intercultural and residential environment. We offer bachelor's degrees in a variety of traditional and professional programs.

Statement of purpose

The mission of Northwestern College is to provide a distinctively Christian liberal arts education of recognized quality in a primarily undergraduate, coeducational, intercultural residential environment.

As a Christian college in the Reformed tradition, the Northwestern community embraces the belief that Jesus Christ is Lord of all. The college promotes a comprehensive integration of faith, learning and living that prepares students for lives of service to God and humankind.

As a liberal arts college, Northwestern strives to develop a broad and deep understanding of the human and natural worlds and to develop personal skills that will make Northwestern students, faculty and staff effective members of their communities.

The goals of Northwestern College

1. Provide a distinctively Christian education:
 - that assists in the development of a Christian world- and life-view based on the foundation of biblical teaching
 - that assists in the development of a sincere, personal Christian faith
 - that assists in the development of a uniquely Christian system of values that will guide decision-making
 - that provides opportunities for Christian service
 - that prepares and motivates all members of the college community to use their gifts to glorify God, to transform human culture, and to be stewards of God's creation
2. Provide a liberal arts education:
 - that promotes study of and involvement with the major departments of the humanities, natural sciences and social sciences, recognizing their theoretical foundations and methods of inquiry
 - that assists in the understanding of and appreciation for the riches of our cultural heritage and the riches and diversity of other cultures
 - that provides a study of at least one academic field in significant depth
3. Develop skills and creativity:
 - in written, oral and artistic expression
 - in critical thinking and problem-solving
 - in leadership and interpersonal relations
 - in ethical decision-making
4. Prepare members of the college community for the future:
 - to be lifelong learners
 - to be careful stewards of their physical and mental well-being
 - to be active and effective participants in church, social and civic communities
 - to be effective in their careers
 - to be wise in their use of leisure time
 - to be sensitive and responsive to beauty
5. Promote throughout the college excellence in teaching, research, scholarship, performance and production
6. Encourage the development of a Christian community:
 - that is reflected in godly lives marked by personal devotion, by caring interpersonal relationships, and by respect for others' unique gifts and perspectives
 - that is reflected in an appreciation for and promotion of cultural, ethnic and racial diversity
 - that is reflected in a participatory system of governance

7. Provide an attractive and efficient campus plant:
 - that is aesthetically pleasing
 - that promotes active stewardship of the environment
 - that is conducive to serious learning and Christian living
8. Provide educational, cultural and recreational opportunities for students, faculty, staff and the surrounding communities
9. Generate the financial resources necessary to provide educational excellence and maintain fiscal responsibility in all programs and operations

The Northwestern heritage

Christian beliefs

Northwestern College is affiliated with the Reformed Church in America, a denomination whose beliefs have been set forth in such major documents of the Reformation as the Heidelberg Catechism, the Belgic Confession and the Canons of the Synod of Dort, and also in the early church's Apostles', Athanasian and Nicene Creeds. The Reformed tradition upholds the universal Christian teaching of one God in Trinity: the Father, the Son and the Holy Spirit; who is the sovereign, gracious, holy, electing, covenant-keeping God whose Kingdom is both here and now and yet to come. God the Father is the creator, governor and sustainer of all that exists. God the Son, whose incarnation, atoning death and victorious resurrection are central to God's redemptive plan, is Lord over all of life and thought, necessitating Christian involvement in reforming society and culture. God the Holy Spirit works to restore the creation and to bring about the obedience of faith through Christian discipleship.

The Reformed tradition upholds the central Protestant affirmations of the sole authority of Scripture in matters of belief and life, justification of sinners by grace through faith in Jesus Christ, and the priesthood of all believers. It emphasizes an educated ministry and laity, a respect for the church of all times and places, and a representative, or presbyterial, form of church government. The church is called to praise God in worship, giving an important place to the preaching of the Word and to the sacraments. The church is evangelical, catholic and apostolic, commissioned to proclaim the gospel to all peoples, to recognize and develop the international fellowship of believers, and to serve as God's agent of reconciliation and transformation in a world torn apart by sin.

A brief history of Northwestern College

Northwestern is a Christian college in the Reformed tradition. That tradition goes back to the 16th-century Protestant Reformation and to the work of John Calvin, the reformer of Geneva. The Calvinist churches spread throughout continental Europe, the British Isles and the rest of the English-speaking world, including North America, where their best-known representatives have been the Puritans and the Presbyterians. Reformed Christianity was the dominant religious influence in the formative years of the United States. In the early 17th century, Dutch Calvinist immigrants settled in what is now New York, where the first Reformed church was organized in 1628. This makes the Reformed Church in America, Northwestern's sponsoring denomination, one of the oldest Christian bodies in the United States.

The more immediate background for Northwestern is provided by a second Dutch migration to the New World, this time to the Midwest in the 19th century. A religious revival, accompanied by a desire for freedom of religious expression and for a better life in general, led thousands of Dutch Reformed people to emigrate to the United States. Their best-known colonies were Holland, Michigan, and Pella, Iowa, both begun in 1847. Most of these immigrants soon joined the Reformed Church in America. In the 1870s some Pella residents, led by the enterprising Henry Hoppers, moved to inexpensive, fertile land in northwestern Iowa, about forty miles north of Sioux City. They named their chief town "Orange City," after the Dutch royal house. Today Orange City is a county seat and a growing municipality of 5,600 people with significant light industry in the midst of a prosperous agricultural region. It is the center of the largest concentration of Dutch Americans west of Michigan. A large majority of the community's residents are regular church-goers, most of them associated with either the Reformed Church in America or its sister denomination, the Christian Reformed Church.

In 1872, the Reverend Seine Bolks became the first pastor of Orange City's First Reformed Church. He earnestly desired to establish a Christian classical academy that would prepare students for college and ultimately for ministry in the Reformed Church in America. After considerable economic hardship in the 1870s, the area's Dutch Reformed people, led by "Father" Bolks and Henry Hoppers, incorporated the Northwestern Classical Academy on July 19, 1882, with the motto "Deus est lux" (God is light). Hoppers gave much of the land on which Northwestern is located. Zwemer Hall, the first permanent building, was erected in 1894; it is now the college's administrative center and is listed in the National Register of Historic Places.

As the academy grew, the curriculum expanded to embrace modern subjects such as education and business in addition to classical studies such as Latin. Soon academy graduates included educators and other professionals.

As new opportunities arose, the Board of Trustees approved new programs. In 1928 the academy added a junior college. The junior college became a four-year teacher training college, with the third year beginning in 1959 and the fourth year in 1960. The

spring of 1961 marked both the first graduating class of the four-year college and the last graduating class of the academy, which ceased operation. Four years later, the Board of Trustees approved the development of a liberal arts program at Northwestern. Since that time, the college has significantly developed its academic program; in 1970 the North Central Association granted the college full accreditation.

The last two decades have seen important changes. These include several new academic and co-curricular programs, a substantial increase in the number of faculty members who have terminal degrees and who are active in research and publication, and growing numbers of students drawn from outside the region, the nation and the Reformed Church in America.

Now in its second century, Northwestern, a member of the Council for Christian Colleges & Universities, has achieved recognition as an intentionally Christian liberal arts college. As in the past, Northwestern looks to the future with confidence and with faith that God will continue to guide its efforts.

Northwestern and the liberal arts

Northwestern College looks back to the ancient Hebrew and early Christian communities, which placed knowledge of God and of the Scriptures at the center of all learning and emphasized wisdom and right living as proper results of education. Northwestern also claims the liberal arts tradition as its own. That tradition traces its roots to ancient Greece and Rome, when free men were trained for participation in society. Medieval Europe continued that tradition, requiring the seven liberal arts (grammar, rhetoric, logic, arithmetic, geometry, astronomy and music) as foundations for further study in the higher sciences of medicine, theology and law. The Renaissance, in its interest in returning to the classical sources of Western thought, added the study of ancient languages and literature while also emphasizing that learning should result in ethical living, not mere speculation. The Reformation then combined concerns of the Middle Ages and the Renaissance as it placed theology, and scriptural studies in particular, at the center of education and called all people not only to know God but also to serve him.

The scientific revolution and the Enlightenment ushered in a renewed interest in the natural world and a new approach to truth that stressed experience, observation and human reason. These developments brought both benefits and problems. Perhaps chief among the latter was the Enlightenment tendency to ignore the Christian theological presuppositions that informed previous intellectual efforts. Even Christian colleges have felt these effects, although many have remained committed to a Christ-centered view of life and to the important role of the liberal arts in developing such a view.

Throughout the development of the liberal arts tradition, the major purposes have been to understand the human and the humane; to liberate and enlarge the intellect to develop through study and contemplation over time habits of thought and commitment that become part of a comprehensive worldview; and to refine basic and liberating skills such as communication, critical thinking and decision-making. As a liberal arts college infused with a distinctively Christian perspective, Northwestern seeks to teach and practice the unity and universality of God's truth. Foundational to a Northwestern College education is our Integrative General Education (IGE) program. IGE includes a First-Year Seminar, Core Courses in biblical and theological studies, a menu of courses in ten Integrative Learning Categories, and a Senior Seminar. Along with this solid foundation, Northwestern offers majors and pre-professional programs that seek to broaden and deepen the understanding of truth, beauty and justice, and to prepare students for lives of service and work to the glory of God.

Settlement of northwest Iowa

A second Dutch migration to the New World—this time to the Midwest in the 19th century—brought immigrants who desired freedom of religious expression and opportunities for a better life in general. The best-known settlements of the Dutch Reformed immigrants of this time were Holland, Michigan, and Pella, Iowa, both begun in 1847. Most of these immigrants soon joined the Reformed Church in America. In the 1870s some Pella residents, led by Henry Hospers, moved to inexpensive, fertile land in northwestern Iowa, about forty miles north of Sioux City. They named their main settlement Orange City, after the Dutch royal house.

Founding of Northwestern

In 1872, the Reverend Seine Bolks became the first pastor of Orange City's First Reformed Church. One of the founders of what became Hope College in Holland, Michigan, he desired to establish a Christian classical academy in Orange City to prepare students for college and ultimately for ministry in the Reformed Church in America. Grasshopper scourges and intermittent floods, hailstorms and droughts delayed fulfillment of that dream.

After considerable economic hardship, the area's Dutch Reformed people, led by Bolks and Hospers, incorporated the Northwestern Classical Academy on July 19, 1882, with the motto "Deus est lux" (God is light). The constitution called for establishing an institution of learning "for the promotion of science and literature in harmony with, and religion as expressed in, the doctrinal standards of the Reformed Church in America."

The early years

Hospers donated much of the land on which Northwestern is located. Zwemer Hall, the first permanent building, was erected in 1894; it is now the college's administration building and is listed in the National Register of Historic Places.

The academy grew from 25 students in the first year to around 70 within a decade. The curriculum expanded to embrace subjects such as education and business in addition to classical studies such as Latin. Soon academy graduates included educators and other professionals.

In 1928 the academy added a junior college. The Great Depression hit Northwestern hard, resulting in salary cuts for faculty. Despite the suggestion from the Reformed Church's Board of Education in 1932 that the junior college close temporarily, President Jacob Heemstra kept Northwestern afloat. After World War II enrollment increased steadily. With that growth came the construction of a number of buildings in the 1950s.

A time of growth

Northwestern became a four-year teacher-training college, awarding its first bachelor's degrees in 1961, the same year the academy ceased operation. Four years later, the Board of Trustees approved the development of a liberal arts program. As enrollment doubled to more than 760 in the 1960s, three dorms and Ramaker Library were built.

The North Central Association granted the college full accreditation in 1970. The football team won the college's first NAIA national championship in 1973, and Northwestern began offering opportunities to intern in Chicago and study abroad a year later.

Northwestern's Christian dimension was strengthened in the 1980s as the institution joined the Council for Christian Colleges & Universities, began offering spring and summer short-term mission opportunities, and emphasized discipleship groups. The percentage of faculty who earned doctorates or the highest degree in their field increased from less than 50% to 75%. In addition, majors were added in accounting, Christian education, communication, computer science and social work. Despite Iowa's farm crisis, funds were raised to build Christ Chapel and enrollment grew to more than 1,000 by the end of the decade.

Northwestern today

A number of building and renovation projects were completed by the end of the 20th century, and enrollment continued a steady incline. Northwestern's academic reputation was strengthened when faculty members were named Iowa's Professor of the Year in 2004 and 2006. The 2000s also saw an expansion of the study abroad program, construction of new facilities for art and theatre, five national championships in men's and women's basketball, and a campus-wide emphasis on helping students discover their calling by better integrating their academic, service and co-curricular experiences.

Adhering to its original mission of providing a Christ-centered education and still strongly connected to the Reformed Church in America, Northwestern has achieved recognition as a high-quality, genuinely Christian, liberal arts college. As in the past, Northwestern looks to the future with confidence and faith that God's light will continue to guide.

A vision for learning

Northwestern College is a community rooted in Scripture and the confessions of Reformed theology and thus shaped by a robust integrative and transformative vision of the Triune God who creates, redeems and sustains. This theological background supports a framework within which students, staff and faculty of various Christian traditions take up the task of loving, understanding and serving the world whose Savior and Lord is Jesus Christ. We see the pursuit of liberal arts education as worship experienced in community and offered to the glory of God. Embracing this calling with a freedom that arises from confidence in God's saving grace and sovereignty, we are committed to cultivating virtues of heart and mind that will enable us to live out our shared vocation as participants in God's redemptive work. We respond to God's call to proclaim the message of the gospel, be stewards of creation, serve Christ in all persons, and bring all things under his lordship.

In keeping with this commitment, we intend Northwestern graduates to be persons who:

Trust, love and worship God

- Understanding that God is the center of life, learning about God through careful and rigorous study, and aspiring to trust, love and worship God as the sovereign Lord of the universe.
- Recognizing that to love God is also to live joyfully as participants in a variety of communities, valuing the diversity of the human family, and seeking opportunities for learning, growth and transformation through intercultural relationships.

Engage ideas

- Demonstrating competence in navigating and contributing to the world of ideas and information, having learned to listen, read, question, evaluate, speak, write, create and perform with a disciplined imagination.
- Gaining a comprehensive understanding of the theoretical foundations, methods and products of the humanities, the social and natural sciences, and the fine arts.

- Pursuing truth faithfully in all aspects of life; developing, articulating and supporting their own beliefs; and seeking meaningful dialogue with those holding different convictions.
- Desiring to continue a life of learning and contemplation.

Connect knowledge and experience

- Completing academic majors that enable acquisition of the narrower but deeper knowledge and skills that serve as the basis for mastery of a particular discipline and as preparation for meaningful life and work.
- Exhibiting a broad understanding of the current and historical interplay of different realms of knowledge and experience.
- Seeking opportunities for growth and reflection that integrate faith, learning and living in community.
- Seeing beauty and finding joy in all pursuits.

Respond to God's call

- Discerning and developing their unique gifts in service to Christ, the church and the world Christ loves and redeems.
- Regarding all persons as made in the image of God and thus deserving of understanding, love and justice.
- Living a balanced and whole life in obedience to God.

Academic life

Degree requirements

The Bachelor of Arts or Bachelor of Science degree is granted to students who:

1. Complete the general education requirements as listed in the Integrative General Education section of this catalog.
2. Complete an academic major as described later in this section.
3. Complete a minimum of 124 semester credits.
4. Achieve a minimum cumulative GPA of 2.00 in all course work attempted at Northwestern College and a minimum GPA of 2.00 in the courses comprising the major. Exceptions to the requirement of a cumulative 2.00 GPA will be made for programs in which an outside accrediting organization mandates a higher GPA (for example, athletic training, nursing, etc.).
5. Fulfill the residence requirement as described later in this section.
6. Fulfill chapel attendance requirement.

Student responsibility

While the faculty adviser participates actively in the student's academic planning and monitors his/her progress, final responsibility for recognizing and fulfilling graduation requirements rests with the student. Students should acquaint themselves with the various requirements set forth in this catalog and, beginning with their freshman year, should plan their college courses so as to fulfill their graduation requirements.

Major requirements

Each student is required to choose one academic major. The major enables the student to pursue in-depth study in one academic department. Students must have a minimum grade point average of at least 2.00 in the courses comprising their major for graduation. Students are required to file a Declaration of Academic Major form in the registrar's office by the end of the sophomore year, prior to registering for classes as a junior. Sophomores registering for their junior semester will be unable to register for classes until a form is on file in the registrar's office. See the section on college courses for descriptions of all available majors.

The number of credits that a student must take to meet the requirements for an academic major generally ranges between 28 and 36, depending on the major. All majors must require students to take a minimum of 12 credits of 300-level or above courses, excluding cognates.

A minimum of one-half of major courses comprising an academic major, excluding cognates, must be completed in residency. (Note: Student may petition the respective Department Chair for an exception to this rule).

Academic minors

Northwestern College offers approximately forty academic minors, constituting a disciplinary area in which a student wishes to receive a broad introduction to complement their choice of major. Academic minors must include a minimum of 20 credits. There can be an overlap of no more than 8 credits with a student's academic major, not counting cognate courses. As with academic majors, a student cannot elect a pass/no pass option for courses in their minor. All course substitutions affecting the minor must be approved by the department offering the minor. A minimum of one-half of the academic minor courses, excluding cognates, must be completed in residency. No one may propose a student initiated minor.

Free elective courses

In addition to meeting Integrative General Education and major requirements, the student generally has a number of free elective credits available in the 124-credit total (depending on choice of major). The student may use these free elective credits in accordance with his or her own interests. In some cases a second major can be chosen, or a minor area of study may be elected (see the sections on college courses for descriptions of all available minors). The student may also use these free elective credits to pursue a pre-professional program or a career concentration (see the sections on pre-professional programs and career concentrations for descriptions of available options).

A student may not use more than 8 credits of the same course work between a double major or a major and a minor. This limit does not pertain to cognate requirements.

Course substitutions

All course substitutions intended to meet Integrative General Education requirements must be approved by the student's advisor and the registrar, in consultation with the Director of Integrative General Education. All student course substitutions intended to meet the requirements of a major or minor must receive the written approval of the student, the faculty adviser, the department chairperson, and the registrar. The written approval must be filed with the registrar before the start of the student's last semester prior to graduation. Forms for these course substitutions are available in the registrar's office.

Academic calendar

Northwestern's academic calendar consists of two 16-week semesters.

Course load

A student must be enrolled in 12 credit hours of coursework, taken for academic credit, to be considered full-time. (Audited credit hours do not count toward meeting this requirement.)

The maximum number of credits that a student may take during a given semester is 18*. Exceptions for an overload may be granted if the student has the following cumulative GPA:

- 3.30 when registering for the sophomore year
- 3.15 when registering for the junior year
- 3.00 when registering for the senior year

Freshmen are not eligible for an academic overload

*Audit credits are not included when approving course overloads beyond 18 credits.

Residence requirement

Students who transfer 30 or more credits to Northwestern must complete the residence requirement by taking their last 30 credits at Northwestern. Before enrolling in course work at another institution, students must receive prior approval from the registrar.

Exception to this residence requirement is made for students majoring in medical laboratory science; students in the dual-degree program in chemistry/engineering or math/ engineering; and students in selected pre-professional programs in physical therapy, dentistry, medicine, optometry, and veterinary medicine where the professional school accepts students after three years provided their undergraduate institution will award them the B.A. degree following completion of the first year of their professional training.

Academic appeals

Students who wish to appeal academic program decisions or the decisions of a faculty member or an academic department concerning their academic progress must submit to the dean of the faculty a written appeal of the decision within 30 days following their notification of the decision. The dean of the faculty will provide a written acknowledgment of the appeal within

seven days. The dean of the faculty will investigate the appeal and provide a decision which will be communicated in writing to the student within 15 days of this acknowledgment. A final appeal may be made to the provost, following the same procedures and timetable.

Individualized courses and programs

Northwestern values the individuality of each of its students and therefore provides the following individualized courses and programs as a complement to the regular college curriculum.

Honors Program

The Honors Program seeks to enhance academic excellence in the pursuit of the integration of faith, learning, and living-key elements of Northwestern College's mission. This broad purpose is pursued in four primary ways.

First, honors seminars offer students in the Honors Program an interdisciplinary approach to understanding perennial and contemporary issues, such as technology, war and peace, gender roles, and work and calling. One seminar, taught by two faculty, is offered each semester.

Second, honors research affords the opportunity for students in the program to delve more deeply into a topic of their choice, working with selected faculty members to complete a project that goes beyond the normal upper-division work at the college.

Third, the program encourages students to pursue graduate education by sponsoring trips to regional graduate schools and financially supporting graduate school applications.

Fourth, Honors Program students have the opportunity to substitute up to four credits of honors seminars for any Integrative General Education requirement.

Fifth, honors students, after the first semester of participation in the Honors Program, shall be given the option of substituting one higher level course of the same general nature and in the same discipline for a non-Core Integrative General Education requirement, with the substitution to be approved by the Honors Program directors and the registrar, in consultation with the Director of Integrative General Education.

Taken together, these elements provide honors students with the challenge to grow in their intellectual maturity and wisdom through courses and other activities with other similarly motivated students, faculty and guests.

Additional information about this program is available from the director of the Honors Program.

Directed study

A directed study course is an individualized program of study designed in collaboration with a faculty member and intended to be either an extension of a previous course or the study of a topic not covered in the present curriculum (2, 3, or 4 credits). To qualify for a directed study, a student must be a sophomore, junior or senior with a minimum grade point average of 2.50. A student taking a directed study as an extension of a previous course must have received at least a grade of B in that course. A student may take up to 8 credits of directed study during his or her college career. Applications for directed study are available in the registrar's office and must be submitted to the dean of the faculty at least three weeks before the start of the semester or half semester in which the course is to be taken. All directed study courses will have a 398 designation.

Honors research

Excellent students may qualify for an honors research course. Proposals (available through the registrar's office) must meet the following qualifications:

1. Student must be a junior or senior during the time of the course.
2. Student must have at least a 3.5 GPA in his or her major.
3. The Honors Program includes a two-tier academic component, both of which must be completed to receive official acknowledgment on the student's transcript as an Honors Program graduate.
 - a. Honors Seminars. Members of the Honors Program must complete two Honors Seminars. One Honors Seminar will be offered each semester as a 2-credit course.
 - b. Honors Research. Members of the Honors Program must complete a departmental Honors Research Project. Honors research involves the completion of a research paper, or an equivalent project in the fine arts, that reflects not merely 400-level topic and work appropriate for the respective discipline, but a level of quality beyond the normal, in preparation, scope, originality, precision, etc. Honors Research may be taken for 2-4 credits. The student will convene a faculty panel consisting of the student's research advisor, one of the Honors Directors, and at least one other faculty member. This panel must approve the research proposal and submit it to the Provost at least three weeks prior to the semester in which the research is to begin.

4. The proposed course must include an original research project that makes use of both primary and secondary sources. The paper or project needs to be "substantial." Most projects are 20 pages or longer.
5. Other kinds of projects, including creative works, will be considered, but will require full explanation of how the project fits the honors research criteria. Whatever the project, a substantial reading list and a complete tentative schedule for completion of the project must be included in the proposal.
6. Honors projects may be 2, 3 or 4 credits.
7. The final grade for the project is determined by the faculty supervisor and a panel of faculty who attend the final oral presentation.
8. To qualify as the research component of the Honors Program requirements, one of the Honors Program co-directors must be a member of the faculty panel, and the student must be a member of the Honors Program.
9. A copy of each project will be catalogued in the library. All honors research courses will have a 499 designation.

Students desiring feedback on their proposal should approach one of the Honors Directors and ask him or her to read a draft. The proposals must be complete and show some evidence of actually being narrow enough to be completed in the time specified. Some proposals are of such a nature that students should begin planning, talking to their supervisor, and even reading earlier in the semester in which they do the work. Students needing to travel to visit archives should begin working with their supervisor and write a grant for such travel in the year before they do the course. The college does have funds for joint student and faculty travel and research. If a proposal is turned down, feedback should be offered to fuel a revision of the proposal.

Student-initiated major

Most students will pursue one of the regular academic majors offered by the college. However, an individual student may have special interest in pursuing in-depth study in a unique major that draws from different areas of the college curriculum. Such a student has the option of designing an individualized major in collaboration with his or her faculty adviser and submitting the proposal for this major to the Academic Affairs Committee for approval.

A student wishing to propose a student-initiated major must do so before completing 80 credits of course work. Courses which have already been completed must be indicated on the proposal for a student-initiated major, and these courses may comprise no more than 75 percent of the total package proposed. To ensure sufficient depth in the student-initiated major, a minimum of 14 credits must be courses numbered 300 or higher; this is in addition to internship credits. To ensure that the proposed major differs sufficiently from existing majors, there must be at least a 16-credit difference between the requirements of the proposed major and those of an existing major.

Department internships

Northwestern offers departmental internships during the regular semester or summer under the direction of the Career Development Center. The major purpose of an internship is to give the student the opportunity to put into practice the theories, knowledge and skills learned in the classroom. Students secure internships with the assistance of the director of career development. Recent internships have included placements in banking, social service, marketing, journalism, church education, theater, insurance and accounting.

All departmental internships earn from 2-12 credits on a pass/no pass basis, with either two or four credits to apply toward the student's major (see the college course section, course 417, for the credits that apply toward the major). The number of credits earned will be generally based on a scale of one credit for each 52.5 hours of work. While participating in an internship, the student may apply to take other regular or directed study courses under the supervision of one or more Northwestern faculty members for a maximum of 16-credit hours for the semester.

A joint faculty/administrative committee screens all departmental internship applications. Students desiring preference on departmental internship placement are required to return their application forms to the director of career development by September 30 for a spring internship, February 1 for summer internships and March 1 for fall internships. Applications will not be accepted for departmental internships after November 15 for spring internships, April 25 for summer internships and July 15 for fall internships.

Departmental internships are generally limited to students in the junior or senior year. Applicants for internships must satisfy the following criteria: cumulative GPA of 2.00, significant promise for benefit and significant potential for exceptionally good performance, and promise for exemplary representation of the goals of Northwestern as a Christian liberal arts college. Upon acceptance for an internship, students must submit learning contracts two weeks prior to the start of the semester in which the internship is to be taken. No registration for internships will be allowed after the fifth class day. Summer internship registration is based upon beginning dates for summer school. Students must refer to the summer school schedule for registration deadlines.

Learning assistance

Under the supervision of the director of academic support, Northwestern offers a number of learning assistance services designed to help each student to succeed in his/her college experience. These services include accommodations for students with learning disabilities, academic counseling, an academic alert system that identifies and provides support for students struggling with their studies, and a peer tutor program.

Accommodations for students with disabilities

Northwestern College seeks to operate in compliance with Section 504 of the Rehabilitation Act of 1973. A student will be eligible for protection under Section 504 if he/she has a mental or physical impairment that "substantially limits one or more major life functions and has a history of such impairment." If the student has met the academic standards required for admission to the college, then he/she will be ensured equal educational opportunity. In the case of students with disabilities, it is the responsibility of the academic support staff, working closely with faculty and students' academic advisers, to provide appropriate academic accommodations. Because these accommodations are based upon the student's diagnostic evaluations and past educational experiences, he/she will be expected to provide recent documentation (within three years) verifying the disability.

Writing center

Northwestern's writing center offers services designed to help all students become better writers. Using highly trained peer tutors, the center offers tutorial services to students who voluntarily drop in or are referred to the center by faculty.

Programs for international students

Northwestern College has four study options for international students: a one-year English as a Second Language program; a complete baccalaureate program; a fifth-year program; and a transfer program. (See the admissions section of the catalog for further information about admissions for international students.)

English as a Second Language certificate program

Northwestern College's one-year English as a Second Language (ESL) certificate program is for non-native speakers who want to achieve the English skills necessary for success as degree-seeking students at Northwestern or other U.S. colleges and universities, or in business. Entrance into the program requires a minimum TOEFL score of 350 (63-computer). Students who complete the certificate program and achieve a TOEFL score of 550 (213-computer) or better will be eligible to apply for enrollment as degree-seeking students at Northwestern College or another U.S. institution. If accepted at Northwestern, courses taken as part of the certificate program would then be credited toward graduation requirements.

The one-year ESL certificate program can benefit:

- High school graduates who need an improved TOEFL score to enroll in undergraduate programs in U.S. colleges or universities
- Business persons who want to improve their English for better employment
- Professionals who need better English skills before acceptance into English-speaking graduate programs

One-year study program

Students may apply for one year of study at Northwestern either through their home institution or directly to the admissions office. These one-year students generally study at Northwestern for their sophomore or junior year and then return to graduate from their home institution. Most overseas cooperating or sister colleges accept all credits earned at Northwestern.

Baccalaureate program

Some international students come to Northwestern College directly from high school or after graduating from a junior college. These students work to complete Northwestern's graduation requirements for a bachelor's degree. It is often advisable for international students to take only 12 credits during their first semester at Northwestern.

Fifth-year program

International students who have graduated from an accredited college or university may attend Northwestern for a year; this is an attractive option for those who want to upgrade their English proficiency in preparation for graduate school.

Online learning

A Northwestern education is for any student who believes an exploration of faith should be part of learning—even if you can't be a regular part of our campus community. That includes non-traditional, students who don't live on campus, and students for whom the flexibility of technology enables them to take all the classes they want, when they want.

Northwestern's online programs and courses are ideal for:

- Students who want to take classes in the summer
- Nontraditional students who are already working or pursuing a career change
- NWC students who prefer the diversity of taking some courses on campus and others online
- NWC students who require scheduling flexibility, like student-athletes or students studying or interning off campus
- Anyone who wants a Northwestern education without the limitations of living on or traveling to campus

Off-campus study programs

Because Northwestern desires to broaden the educational experience of its students, it extends the privilege of two forms of off-campus study. Juniors and seniors can pursue a full semester in an approved off-campus program. A variety of short-term summer study abroad opportunities, led by Northwestern College faculty members, is offered each summer and is open to all students.

Off-campus semester options

Applicants must satisfy the following criteria for participation: significant promise for benefit and significant potential for exceptionally good performance; promise for exemplary representation of the goals of Northwestern as a Christian liberal arts college. The college requires a 2.5 GPA to be eligible for an off-campus semester; some programs have a higher requirement.

Participants in approved off-campus study programs register at Northwestern and are considered to be students of Northwestern College. The allocation of credits and grades toward academic requirements is determined by the registrar on the basis of recommendations from the off-campus study program. During their off-campus experience, students may continue to receive their regular financial aid from the college if attending one of the following approved programs. These students will be considered enrolled at Northwestern for the purpose of applying for Title IV assistance. Students pay normal Northwestern costs for the semester. All off-campus costs that exceed on-campus study costs are to be paid by the student. The following is a list of approved off-campus study programs.

Credits and grades are accepted from the programs listed in this category.

*Note: Instructions for applications may be obtained in the Career Development Center and must be returned by **February 10** of the academic year prior to the fall or spring off-campus semester.*

Northwestern College programs

Denver Urban Semester

The Denver Urban Semester is designed to provide a three-pronged experience of classroom instruction, living in community, and internships. The program will consist of 2-3 classes and an internship for a total of 15-16 credits. The following courses will be offered:

- Race and Ethnicity in American Society (3 credits) or Intercultural Communication (3 credits)
- Global Urbanization (City of Joy) (3 credits)
- Incarnational Spirituality (3 credits)
- Cross Cultural/Streams of Faith Practicum (1 credit)

Romania Semester (Lupeni, Romania)

Northwestern College, in conjunction with the New Horizons Foundation of Romania, offers a unique fall semester experience engaging the culture of post-communist Romania. New Horizons Foundation is a non-governmental organization working with Romanian youth using adventure education and service-learning experiences to help them develop responsibility, teamwork and trust, with the ultimate goal of building a sustainable civil society. Located in the city of Lupeni, nestled in the Jiu Valley of the

Carpathian Mountains, the program offers students a semester of cross-cultural engagement, along with development theory in the classroom and practical application once outside. The four-course curriculum consists of:

- Romanian Culture and History (including some language) (4 credits)
- Eastern Orthodoxy (4 credits)
- Sustainable Development (4 credits)
- Experiential Education (4 credits)

The Romania Semester meets both the Northwestern College Cross-Cultural and Language Integrative General Education requirements. Students will receive credit for the following courses at Northwestern: Romanian Culture and History is equivalent to HIS230, Eastern Orthodoxy is equivalent to REL385, Sustainable Development is equivalent to ECO305 and Experiential Education is equivalent to KIN345.

A backpacking trip in the mountains, a home stay with Romanian families, and excursions around the country punctuate the classroom experience and the service-learning work with Romanian youth (GEN352).

Oman Semester

The Northwestern College semester program in Oman offers a unique opportunity each spring for study in the Middle East with exposure to Muslim culture and the religion of Islam. In addition, the program combines cultural immersion with academic rigor so that students gain an understanding of important questions facing a traditional culture that is rapidly modernizing. Courses include:

- Introduction to Arabic (6 credits)
- Christian-Muslim Relations (4 credits) (This course transfers as a 4-credit Topics in Religion course)
- Oman History and Culture (4 credits)
- Integrative Experiential Learning (2 credits)

Oman is renowned for its hospitality, openness, and peaceful nature, and thus it provides unparalleled opportunities to be a part of community life. The Oman semester meets both the Northwestern Cross-Cultural Engagement and Language and Culture general education requirements. The Oman Semester, along with 8 additional on-campus credits, earns a Middle East Studies Minor (see under listings of Minors).(GEN354).

Other programs

Au Sable Institute

The Au Sable Trails Institute of Environmental Studies has been established to serve and support evangelical Christian colleges. Northwestern is one of 47 Christian colleges participating in this program. The institute's original Great Lakes campus is located on 65 wooded acres near Mancelona, Michigan. The Institute also offers study on campuses on the Pacific Rim in Washington State, Chesapeake Bay on the East Coast, the Florida Everglades, and Tamil Nadu, India.

The purpose of the Au Sable Institute is to provide a unique off-campus, environmentally oriented educational experience for qualified students from participating colleges. Students live in small, rustic dorms or cottages and utilize well-equipped classrooms and laboratories. Students have the opportunity to participate in two five-week sessions during the summer.

Participating students may elect to take the necessary sequences of courses that will meet the requirements for vocational certification in one of the following areas: environmental analyst, land resource analyst, water resource analyst or naturalist. (A list of approved Au Sable courses is posted in the biology department and available from the registrar).

Academic credit for all Au Sable Institute courses is granted through Northwestern College. Special fellowships and scholarships are available for qualified students (see the section on special scholarships and grants under the financial information section of this catalog).

Chicago Semester

The Chicago Semester program offers a combined internship/study program under the supervision of Trinity Christian College. The program aims to help students integrate their lives around Christian social values, to develop an understanding of the city and its culture, and to strengthen the student's vocational directions.

Northwestern grants 16 credits upon completion of the program, with credits distributed as follows: 8-12 credits for an internship/student teaching/social work practicum (with 4 credits to be applied toward the student's major, see the college course

section, course 417, for the credits that apply toward the major). The Metropolitan Seminar entitled "Diversity and Inequality in Global Chicago" will satisfy the Integrative General Education Cross-Cultural requirement; the Arts and the City Seminar will satisfy the Aesthetic Experience (AE) requirement. (GEN300).

Off-campus/study abroad through the Council for Christian Colleges and Universities (CCCU)

Note: A majority of CCCU semesters require a minimum GPA of 2.75.

American Studies Program (Washington, D.C.)

Founded in 1976, the American Studies Program uses Washington D.C. as a stimulating educational laboratory where collegians combine classroom theory with hands-on experience in an internship in their chosen field. Internships are available in congressional offices, social service agencies, think tanks, cultural institutions and the many other organizations located in the nation's capitol.

Northwestern grants 16 credits upon completion of the program, with the credits distributed as follows: 8 credits for the seminars on public policy; 8 credits for the internship (with either 2 or 4 internship credits applied toward the student's major, see the college course section, course 417, for the credits that apply toward the major) (GEN303).

Australia Studies Centre

The ASC offers students a semester at the Christian Heritage College in Brisbane, Australia. The ASC utilizes a combination of classroom training at the Christian Heritage College and experiential learning in the beautiful Australian context. Home stays, service learning and travel around Australia are important components of the ASC.

Northwestern grants 15-18 credits upon completion of the program, with credits distributed as follows: 3 credits for the Australian History, Culture and Society seminar (meeting the Integrative General Education Cross-Cultural requirement); 12-15 credits for elective seminars (GEN326).

China Studies Program

The China Studies Program enables students to engage this ancient and intriguing country from the inside. While living in and experiencing Chinese civilization firsthand, students participate in seminar courses to learn about the historical, cultural, religious, geographic and economic realities of this strategic and populous nation.

Northwestern grants 16 credits upon completion of the program, with credits distributed as follows: 3 credits for Chinese language instruction; 12 credits for the seminars (meeting the Language and Culture (LA) and Integrative General Education Cross-Cultural requirement); 1 credit for elective seminar (GEN324).

Contemporary Music Program (Martha's Vineyard)

The Contemporary Music Program provides students the opportunity to live and work in a community while seeking to understand how God will have them integrate music, faith and business. Both interdisciplinary and multidisciplinary in nature, the CMP offers two tracks. The artist track is tailored to students considering careers as vocalists, musicians, songwriters, recording artists, performers, producers and recording engineers. The executive track is designed for business, arts management, marketing, communications and other majors interested in possible careers as artist managers, agents, record company executives, music publishers, concert promoters and entertainment industry entrepreneurs.

Northwestern grants 16 credits upon completion of the program (GEN329).

Latin American Studies Program (Costa Rica)

Students have the opportunity to live and learn in Latin America through the LASP, based in San José, Costa Rica. The program introduces students to a wide range of experiences through the study of language, literature, culture, politics, history, economics, ecology and religion of the region. Living with a Costa Rican family, students experience and become a part of the day-to-day lives of typical Latin Americans. Students also take part in a service opportunity and travel for three weeks to nearby Central American nations.

Northwestern grants 16 credits upon completion of this program, with the credits distributed as follows: 6 credits in Spanish language (can be taken in lieu of Spanish 201, 202 at Northwestern); 6 credits for the seminars (meeting the Language and Culture (LA) and Integrative General Education Cross-Cultural requirement); 4 credits for the service/travel internship (with either 2 or 4 credits to be applied toward the student's major, see the college course section, course 417, for the credits that apply toward the major) (GEN305).

Los Angeles Film Studies Center

The Los Angeles Film Studies Center is designed to train students to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn and work in the Los Angeles area near major studios. The combination of the internships and seminars allow students to explore the film industry within a Christian context and from a liberal arts perspective.

Northwestern College grants 16 credits upon completion of the program, with the credits distributed as follows: 10 credits for the seminars (counting as communication studies, English, or theatre/speech electives); 6 credits for the internship (with either 2 or 4 credits to be applied toward the student's major, see the college course section, course 417, for the credits that apply toward the major) (GEN304).

Middle East Studies Program (Egypt)

This program, based in Cairo, Egypt, allows students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural and political traditions of Middle Eastern peoples. Students also study the Arabic language and work as volunteers with various organizations in Cairo.

Northwestern grants 16 credits upon completion of the program, with the credits distributed as follows: 4 credits for Arabic language instruction; 12 credits for the seminars (meeting the Language and Culture (LA) and Integrative General Education Cross-Cultural requirement) (GEN310).

Oxford Summer Programme

The Oxford Summer Programme (OSP) is a program of the Council for Christian Colleges & Universities and Wycliffe Hall, Oxford. The programme is structured for rising college sophomores, juniors and seniors, graduate and seminary students, non-traditional students, teachers and those enrolled in continuing-education programs.

Northwestern grants 5 credits upon completion of the program (GEN342).

Russian Studies Program

RSP students are exposed to the depth and diversity of the culture during a semester spent in Russia's three largest cities: Moscow, St. Petersburg and Nizhni Novgorod. In addition to three seminar courses, students receive instruction in the Russian language, choosing either four or six semester hours of language course work.

Northwestern grants 16 credits upon completion of the program, with the credits distributed as follows: 6 credits for Russian language instruction; 8 credits for the seminars (meeting the Integrative General Education Cross-Cultural requirement); 2 credits for the service project (GEN308).

Scholar's Semester in Oxford

SSO is designed for students interested in doing intensive scholarship in this historic seat of learning. Working with academic tutors, students hone their skills and delve into the areas that interest them most. As visiting students in Oxford University and members of Wycliffe Hall, students have the privilege to study and learn in one of the university's historic halls. A minimum GPA of 3.5 is required for this program.

Northwestern grants 17 hours of credits upon completion of the program (GEN333).

Social Work in Latin American Context

The Social Work in Latin American Context semester is sponsored by Augsburg College of Minneapolis, Minnesota. The program is located in Cuernavaca, Mexico, and offers a unique combination that may be of interest to students double-majoring in Spanish and Social Work (GEN315).

Uganda Studies Program

Uganda Christian University (UCU), serves as the base of study for students in the USP. Set on the outskirts of the capital city Kampala, this rapidly growing institution brings USP students together with the UCU Honours College. Courses taught by local faculty in the English tutorial tradition will immerse students in a uniquely African education. The program includes home stays, travel and service learning opportunities.

Northwestern grants 16 credits upon completion of the program, with the credits distributed as follows: 4 credits for the Faith and Practice in the Ugandan Context seminar (meeting the Integrative General Education Cross-Cultural requirement); 12 credits for elective seminars (GEN334).

Washington Journalism Center

The Washington Journalism Center is an advanced, experiential semester on Capitol Hill that will cultivate professional news skills and encourage students to think through the implications of being a Christian working in the news media in a city that is home to the powerful and the powerless.

Northwestern grants a minimum of 16 credits upon completion of the program, with the credits distributed as follows: 4 credits for Foundations of Media Involvement; 3 credits for Reporting in Washington; 3 credits for Washington, News, and Public Discourse; and 6 credits for the internship (GEN312).

Other off-campus semester options

Only credits are accepted from the programs listed in this category. Credit is granted for grades of C or higher.

Alma College (Ecuador)

Alma College (Michigan) offers a Spanish language semester in Quito, the ancient northern capital of the Inca Empire. Alma works in conjunction with the Academia Lationamericana. Academic internships and service programs are available to those with sufficient Spanish language proficiency. Housing is provided through host families.

Northwestern grants 16 credits upon completion of this program, with credits distributed depending on courses of study (GEN318).

American Junior Year at Heidelberg

Heidelberg College (Ohio) sponsors an immersion experience in German language and culture at the University of Heidelberg in Germany. A language proficiency exam determines course placement in either the intensive language program of the university's International Study Center, or, for more advanced students, course work at the Seminar for German as a Foreign Language and in other departments of the university. The university requires at least two years of college or university-level German study or the equivalent.

Northwestern grants 12-18 credits upon completion of this program, with credits distributed depending on courses of study (GEN349).

Guatemala Semester (Bethel University)

Bethel University sponsors a semester in Antigua, Guatemala.

Northwestern grants 14-15 credits upon completion of this program, with credits distributed depending on courses of study (GEN321).

Casa de la Solidaridad (El Salvador)

Casa de la Solidaridad is an academic initiative between the Association of Jesuit Colleges and Universities (AJCU), the University of Central America (UCA) in El Salvador and Santa Clara University. The mission of the Casa is the promotion of justice and solidarity through the integration of rigorous academic study with the direct immersion with the poor of El Salvador. Casa is a community-based learning program stressing intellectual growth, ethical and religious values, and promoting socially responsible global citizens. Modern foreign language department approval will be required for students participating in this program.

Northwestern grants 15 credits upon completion of this program. Credits may be distributed in Spanish language, literature or conversation, depending upon courses completed during the student's program of study (GEN345).

Central College (London, Colchester, Wales, Spain)

Central College (Iowa) sponsors several programs of study for which Northwestern students may apply. Qualified students can study for a semester in London, Colchester (England), Wales or Spain. The programs offer courses at a local university and/or courses taught by Central College personnel. A wide variety of courses are available in numerous fields, along with opportunities for internships and travel.

Northwestern grants 12-18 credits upon completion of this program, with credits distributed depending on courses of study (GEN319).

Council for International Educational Exchange (CIEE) (Rennes, France)

Students study at the University of Haute Bretagne, Rennes II, in this capital city of Brittany. The CIEE Study Center is geared to students with intermediate or higher level French language skills and combines language study and content courses taken at the Centre International Rennais d'Etude du Francais pour les Etrangers (CIREFE) and the opportunity to take regular university

courses at the University of Haute Bretagne. Following an intensive three-week language session, and a placement exam, students enroll in classes at the CIREFE and/or the UHB.

Northwestern grants 12-18 credits upon completion of this program, with credits distributed depending on courses of study (GEN348).

Creation Care Study Program (Belize, South Pacific)

The Creation Care Study Program (CCSP) offers semesters in two locations: Central America (Belize) and the South Pacific (Samoa and New Zealand). The goal of CCSP is to develop and nurture, in Christian community, the knowledge, care and practical competence necessary to be caretakers of creation. The core curriculum is three 4-credit classes and the option of electives in anthropology, Latin American studies and environmental literature, or internships. Home stays with national host families are included.

Northwestern grants a minimum of 13 credits upon completion of the program, with the credits distributed as follows: 4 credits each for God and Nature; Tropical Ecosystems (Belize) or Ecosystems of the South Pacific (Samoa/New Zealand) (either course meeting the Science and the Natural World (SN) requirement); Introduction to Sustainable Community Development (meeting the Integrative General Education Cross-Cultural requirement); and 1-4 credits for elective seminars/internships (GEN340).

Cultural Experience Abroad (Guadalajara, Mexico)

(GEN325)

Dordt College (Netherlands)

Dordt College (Iowa) sponsors the Netherlandic Studies Program in Contemporary Europe (N- Spice). This spring semester program gives students the opportunity to study and live in the Netherlands for an entire semester. It is a cooperative program with the Gereformeerde Hogeschool in Zwolle, Netherlands. Students live with host families and have many opportunities to interact with Dutch students as they study Dutch language, history, art, culture, philosophy and contemporary European society.

Northwestern grants 12-18 credits upon completion of this program, with credits distributed depending on courses of study (GEN336).

Florence University of the Arts (Study abroad Italy)

Located in the city that was the heart of the Italian Renaissance, the Florence University of the Arts offers students exposure to the cultural highpoint of early Modern Europe as well as contemporary European culture. Florence University of the Arts offers semester programs in 7 different schools/departments; including culinary studies, digital imaging and visual arts, fashion, interior design, international business, journalism and publishing, and arts and sciences. The program requires students to enroll in Italian language study. Northwestern requires participating students to take at least one additional substantive academic course, perhaps in the school of Arts and Sciences. These courses must be approved in advance by the Global Education Center.

Program offerings include:

- Apicius-Culinary, Wine and Baking/Pastry Programs
- School of Digital Imaging and Visual Arts
- School of Fashion and Accessory Studies and Technology
- School of Interior Design, Environmental Architecture and Sustainability
- International School of Business
- School of Journalism, Communication and Publishing
- School of Arts and Sciences

(GEN365)

International Studies Abroad Program (Multi-country (Mexico, Peru, Argentina), Argentina, Guanajuato Mexico)

ISA semesters in Mexico, Argentina and the multi-country program are approved for Spanish language semesters. Courses are offered on the intermediate and advanced levels. The programs include home stays with host families as well as opportunities to study with national students in local universities.

Northwestern grants 12-18 credits upon completion of this program, with credits distributed depending on courses of study (GEN346).

Mediterranean Center for Arts and Sciences (Sicily, Italy)

Northwestern grants 12-16 credits upon completion of this program, with credits distributed depending on courses of study (GEN323).

Trinity Christian College (Semester in Spain)

Trinity Christian College (Illinois) sponsors a semester in Seville, Spain, for students of any level of Spanish language ability from beginning to advance. The greatest variety of courses is offered at the advanced level, including literature, history, art, theatre and business. An autonomous program not connected with another university in Spain, it requires living with a Spanish family in an immersion experience. It also offers an optional voluntary service component.

Northwestern grants 16-18 credits upon completion of the program, with the credits distributed depending on courses of study (GEN328).

Summer study abroad programs

Summer study abroad has a rich history at Northwestern College. Since 1998, 25 Northwestern College faculty members have led 25 short-term programs to 13 different countries around the world, teaching three-to four-week classes in their academic field. In addition to being taught by NWC faculty, the college's summer study abroad program is designed specifically for Northwestern students and features small class sizes. Participants encounter the "cultural other" in meaningful ways and experience places that are generally underrepresented in the college curriculum. They also have the unique opportunity to share intensive short-term study with Northwestern faculty and students.

While some programs are offered on an every year or every-other-year basis, new programs and locations may be offered each summer, depending on the interests and areas of expertise of the faculty leaders. Past programs have taken students to the Czech Republic, Ecuador, France, Great Britain, Germany, India, Ireland, Jamaica, Mexico, Oman, Romania, South Africa and Taiwan. Along with field trips to cultural sites, the courses often feature guest speakers who give insights into their native countries. Some courses also provide language instruction and the opportunity to live with host families.

Participants in summer study abroad programs receive Northwestern College credit. Courses generally fulfill the Integrative General Education Cross-Cultural requirement for cross-cultural studies (GEN 350), and occasionally they may also provide departmental credit or fulfill other departmental requirements. Summer study abroad courses cannot be taken for audit.

Study abroad locations for the following summer are usually determined and announced in November. Most summer study abroad programs are open to all Northwestern College students who have a 2.5 GPA and are in good academic standing. Occasionally, prerequisite courses may be required. An interview may also be requested. Specific program application requirements are outlined in the application packet for each program.

Applications are due around January 25 and may be submitted either to the summer study abroad office or to the faculty leader. Students are informed of their acceptance in a timely manner. A deposit is due upon acceptance. Final program fees are set around April 1 based on tuition rates plus direct costs of students' housing, airfare, food and excursions. Final program fees are generally due around May 1, and in all cases, must be paid prior to departure. Additional financial aid in the form of loans may be available. Interested students should contact Northwestern's summer study abroad office for more information.

Academic standards and honors

Academic grades and points

The system of grading is as follows:

- A - Superior, counts 4 grade points for each semester hour.
- B - Good, counts 3 grade points for each semester hour.
- C - Average, counts 2 grade points for each semester hour.

D - Below average, counts 1 grade point for each semester hour.

F - Failure, no grade points per semester hour.

The grading system allows for pluses and minuses. The computation is as follows:

A 4.0 B- 2.7 D+ 1.3

A- 3.7 C+ 2.3 D 1.0

B+ 3.3 C 2.0 D- .7

B 3.0 C- 1.7 F 0

I - Incomplete: Given when some portion of the work is unfinished. "I" is to be given only when there are circumstances beyond the control of the student, such as serious illness or family affliction. An incomplete must be removed within six weeks after the end of the course. After the six-week period, the grade will automatically become an "F" if the course work has not been made up.

P - Pass: Indicates at least "C"-level performance. The student receives credit for the course, but it does not affect grade point average.

NP - No Pass: Indicates failure to meet class standards in a course taken on a pass/no pass basis. The student receives no credit for the course, and this grade does not affect grade point average.

W - Withdrawal: Indicates dropping a course with permission, within the time limits and according to the procedures set forth by the registrar's office. Withdrawals or "drops" under other circumstances will be recorded as "F." (See the withdrawal procedure section concerning withdrawal from college.)

AU - Audit: Indicates class participation. No credit is given for the course. This is available only for lecture courses.

If a student repeats a course for a letter grade, the last grade received is the grade earned. All courses and grades will be recorded; however, only the last grade will be used to determine the student's grade point average. Students may repeat a course as an audit. The audit grade will not replace the prior grade and will not affect a student's earned credits or cumulative grade point average. Repeat courses must be taken at Northwestern College. Reports on grades are made available to students twice each semester.

Students receiving federal financial aid may repeat courses for which they have previously received credit one time. This applies to courses that students voluntarily repeat and not to courses that are designated as repeatable (i.e., music lessons, special topics, etc.). For more information, please contact the financial aid office.

The U.S. Department of Education mandates that a class being repeated may be included when determining the student's enrollment status for Title IV purposes. However, if you repeat a previously passed course more than one time, it will not count towards full-time consideration for Federal Student Aid. If this drops you below full time, it will most likely cause a reduction or elimination of a Federal Pell Grant or SEOG Grant, if eligible. It could also impact the amount of Federal Work Study or Federal Student Loans you may be receiving.

Pass/no pass courses

Several off-campus courses (e.g., department internships, field experiences, practica and student teaching) are graded on a pass/no pass basis. This information is included in the course description for the course.

Pass/no pass option for elective courses

To encourage students to explore academic areas outside their major strengths and specializations, each student has the option of taking a maximum of 12 credit hours of elective courses on a pass/ no pass basis. This option may not be used for Integrative General Education requirements or for any requirements for a major, minor, or career concentration. Freshmen may not take courses on a pass/no pass basis; sophomores and juniors may take one course per semester; seniors may take two courses per semester.

Courses taken on a pass/no pass basis will count toward the 124-credit-hour graduation requirement but will not affect the student's grade point average.

Academic forgiveness

Students must specifically request an academic forgiveness option from the dean of the faculty at the time of readmission, and at least five years must have elapsed since their last Northwestern attendance date. Under the policy, (1) All students' grades in their prior academic periods at Northwestern are excluded from the GPA calculation required for graduation. (2) All course work and

grade information will be included on transcripts, with academic forgiveness so noted. (3) Graduation honors will be determined by considering the cumulative GPA of all course work attempted at Northwestern College.

Grade change policy

It is the student's responsibility to bring any error in grades to the instructor within 30 days following the issuance of grades. Grade changes are only allowable for computational or recording errors. In no circumstances may a student raise a grade by submitting work after the end of the course.

A grade change form must be completed by the instructor and submitted to the dean of the faculty within 30 days following the issuance of grades. If approved, the registrar will change the student's permanent record and notify the student and faculty adviser of this grade change.

Classification

Freshmen standing: 0-23 semester hours

Sophomore standing: 24-54 semester hours

Junior standing: 55-88 semester hours

Senior standing: 89 and above

Course numbering

The courses offered at the undergraduate level at Northwestern are divided into four categories:

1. 100-level courses are primarily for freshman students.
2. 200-level courses are primarily for sophomore students and those students with essential prerequisites or backgrounds.
3. 300-level courses are primarily for junior students and those students with essential prerequisites or backgrounds.
4. 400-level courses are primarily for senior students and those students with essential prerequisites or backgrounds.

Courses numbered below 100 are remedial courses designed to help students develop basic academic skills expected for college performance. Courses numbered below 100 will not count toward graduation nor be computed in grade point averages.

An "x" following a course number indicates that the course is cross-referenced in another department. The course description indicates which department the course is cross-referenced with.

Credit from other institutions

Credits will be accepted only for courses with grades of C or higher. See the section on admission of transfer students.

Students who transfer in 30 or more credits must complete their last 30 credits at Northwestern. Before enrolling in course work at another institution, students must receive prior approval from the registrar.

Satisfactory academic progress policy (SAP)

A student's progress is based on the number of credits attempted at Northwestern College and if applicable, any credits transferred in, and the cumulative grade point average. Students must earn at least a cumulative grade point average (GPA) of a 2.00 and successfully complete a minimum of 124 earned credit hours in order to graduate and earn a degree from Northwestern College. This SAP policy is the same for all students, regardless of whether they receive Title IV assistance, and whether they are full or part-time. Satisfactory academic progress is reviewed at the end of each academic semester (including summer), regardless of whether a student received Title IV aid. A student is making satisfactory academic progress toward graduation if he or she has completed the attempted credits and earned the necessary cumulative grade point average as explained in (1) and (2) below.

Financial Aid SAP: Federal regulations require that students who receive federal financial aid must make satisfactory academic progress towards degree completion. Financial Aid SAP is defined by the federal government using both Grade Point Average and Pace measures:

1. Cumulative Grade Point Average (GPA)

Cumulative Grade Point Average Progress Chart

	Attempted Hours	Placed on academic probation* when minimum cumulative gpa is below:	Suspended when cumulative gpa is below:
Freshman	0-23.99	1.75	1.00
Sophomore	24-54.99	1.90	1.50
Junior/Senior	55 and up	2.00	1.70

*Also placed on Financial Aid warning (see Financial Aid warning and probation below).

Students must achieve a cumulative grade point average of 2.0 by the time they reach junior status, which is based on the total number of credit hours attempted. Students not making satisfactory academic progress (SAP) will be placed on academic probation and financial aid warning.

2. Pace

In order to maintain satisfactory progress towards degree completion at Northwestern College, students must successfully complete 67% of the cumulative credit hours attempted at all times. All courses taken toward the student's program of study are included as attempted hours. Students who successfully complete 67% of their attempted credits meet the quantitative measure for monitoring satisfactory academic progress. Students failing to complete 67% of their attempted credits will be placed on financial aid warning or probation.

Duration of financial aid eligibility or "Maximum Time Frame"

The maximum time period to complete a degree is no longer than 150% of the published length of the program measured in credit hours. Thus, students may attempt no more than 186 credit hours in order to maintain their financial aid eligibility. If a student is unable to complete his/her degree program in the 150% degree completion time frame (12 semesters), financial aid eligibility will be terminated.

Students who enroll in a 2nd degree, additional minor or teacher certification may be eligible for financial aid and will have their SAP calculated using the credit hours beyond the first degree.

Incompletes, withdrawals, course repeats and transfer credits

- Incompletes: Students with incompletes at the end of a payment period will have their SAP calculation delayed until the Incompletes are converted to a grade (within 6 weeks of the end of the payment period).
- Withdrawals: If a student withdraws before the withdrawal deadline and receives a "W" for the class, the credits are not considered attempted while computing GPA or pace.
- Repeated Courses: All repeated courses count as attempted credits each time for pace calculations, but only the highest grade is used for GPA calculations.
- Transfer Hours: All accepted transfer credits count as attempted and completed credits when calculating pace, but do not factor into the GPA calculation.

Academic probation/suspension

- Any student whose cumulative GPA is below the minimum standard, based on the total number of credits attempted, shall be placed on academic probation for the following semester.
- Any student who would be on academic probation for a second consecutive semester shall be suspended. An exception will be granted if the student's semester GPA during the semester on probation is above 2.00. In this case, the student shall be granted a second semester on probation, and would be placed on financial aid probation (see Financial Aid Warning and Probation). A student may be granted this exception only one time.
- If the student (on probation) enrolls in summer school classes at Northwestern and earns a summer GPA below 2.0, the student will be suspended. If the student enrolls in summer school classes and earns a summer GPA of 2.0 or above, the new cumulative GPA will determine whether the student is back in good standing or whether the fall semester counts as a second semester of probation.

- Any student who would be on probation for a third semester, whether or not any are consecutive, shall be suspended.
- Academic suspension means a student is suspended for a minimum of one semester. Students wishing to return after one semester must submit a Reinstatement Application to the Office of the Registrar. (The Registrar shall provide a copy of the Reinstatement Application to the Director of Admissions, the Director of Residence Life, and the Director of Academic Support so as to provide adequate notification of the student's possible return to campus.) The Academic Affairs Committee will then determine if re-admittance will be allowed based on the student's appeal.

Financial aid warning and probation

A student is placed on financial aid warning for failing to make the qualitative and/or quantitative measure of SAP, as outlined by the SAP guidelines above. If a student is placed on financial aid warning, the student may continue to receive Title IV assistance for one additional semester despite the fact that they failed to make SAP. No appeal is granted or required.

If a student on financial aid warning fails to make SAP at the end of the semester (or payment period), and if the student is not academically suspended, the student loses Title IV aid the following semester unless they appeal (see Financial Aid Appeal Process below) to be placed on financial aid probation, or, to receive an individual academic plan. An individual academic plan could be established to assist a student who cannot meet SAP in one semester. Progress in the plan will be evaluated at the end of each payment period. Failure to meet the terms of the academic plan will result in a loss of Title IV aid until SAP is re-established. A student on financial aid probation may receive Title IV funds for one payment period. At that point, the student must meet SAP or the requirements of an established individual academic plan in order to maintain Title IV eligibility.

Financial aid probation appeal process

Students who fail SAP may appeal based on any circumstances the student deems as difficult circumstances, such as family difficulties, illness/injury, roommate or dating issues, loss of balance between responsibilities, death in the family or financial struggles. The financial aid appeal (for students on financial aid warning who again fail to make SAP but are not academically suspended) will be handled in the same manner as academic suspension appeals. The student's appeal must be in written (letter) form and state why they failed to meet SAP as well as what will change to demonstrate SAP at the end of the next semester. Students will be notified of the appeal decision via email and/or a letter in the mail. If an appeal is granted by the Financial Aid Director (who decides the appeal in consult with the Academic Support Director and the Registrar), the student will be placed on financial aid probation and allowed to receive Title IV funds for one additional semester. If making SAP is not realistic in one semester, the academic appeal committee may develop an academic plan in lieu of probation that, if followed, will ensure the student is able to meet SAP standards at a specified point in time. If the appeal is not granted, the student may not receive Title IV funds until they regain eligibility by taking actions that bring them back into SAP. These actions may include filing an appeal after attending classes at another institution or by taking classes at NWC without the assistance of Title IV aid.

For a returning student seeking re-instatement from a prior academic suspension, or for any re-registering student who does not meet SAP, if the academic appeal for re-instatement is granted, the student will re-enter on financial aid probation or an established academic plan.

Appeal procedure for students who have been academically suspended

Students may appeal their academic suspension only in cases of extenuating circumstances. An extenuating circumstance is defined as a disruptive, unavoidable circumstance beyond the student's control (e.g. chronic illness, medical emergency, family crisis, physical attack). Students may not appeal using the concept of academic amnesty, whereby only certain courses are excluded from GPA calculations.

Students wishing to appeal their academic suspension must send a one-page typed letter (email is not acceptable), signed and dated, to the chairperson of the Admissions, Retention, and Honors Committee (ARHC) within three weeks of the last day of final exams. The letter should outline 1) the extenuating circumstances that affected the student, 2) actions the student has taken to address those circumstances so that they will not influence future academic endeavors, and 3) whether or not the student wishes to attend the appeal meeting. Letters written by outside persons supporting the appeal must be sent to the chairperson at this time.

A subcommittee consisting of the ARHC chairperson, one faculty member, and one staff member will be the first to review all appeals.

Once the student has filed an appeal, the committee chair will notify the subcommittee members and arrange a meeting as soon as possible. The student who is appealing may choose to be present when the subcommittee considers the appeal; a request for an outside party to be present at the appeal must be approved by the subcommittee prior to the appeal. If the subcommittee decides the appeal does not merit further review, the student will be notified of the decision.

If the subcommittee determines the appeal warrants further review, ARHC will convene to consider the appeal. Again, the student may choose to be present when the committee considers the appeal; a request for an outside party to be present at the

appeal must be approved by ARHC prior to the appeal. After the appeal meeting, the student will be notified of the committee's decision.

Extra-curricular sports eligibility

Probationary students are ineligible for participation in extra-curricular athletic contests. In order for a student to participate in any extra-curricular sports activity at Northwestern, he/ she must have passed at least 24 credits in the previous two semesters of study, with summer school course work to be computed as part of the spring semester.

Academic honors

Students who achieve excellence in their academic work will be awarded academic honors. A student who achieves a semester grade point average of 3.50 or above will be placed on the Academic Dean's List, and a student with a semester average of 3.75 or above will be designated as a Collegiate Scholar.

In order to be eligible for the Academic Dean's List, the student must carry a minimum of 12 graded hours. (Pass/no pass credits are not included.)

Credit hour definition

Northwestern College requires 124 credits for the Baccalaureate degree.

Northwestern College assigns credits to courses per the federal credit hour definition:

A credit hour is an amount of work represented in intended learning outcomes and verified by evidence of student achievement that reasonably approximates not less than: (1) one hour of classroom or direct faculty instruction and a minimum of two hours of out-of-class work each week for approximately fifteen weeks for one semester of credit, or the equivalent amount of work over a different amount of time; or (2) at least an equivalent amount of work as required in paragraph (1) of this definition for other activities as established by an institution, including laboratory work, internships, practica, studio work, and other academic work leading toward the award of credit hours.

Accordingly, courses at Northwestern College vary in the amount of credit awarded from .25 to 16 credits. Courses during the academic year may run for either 8 or 16 weeks and may be either face-to-face or online. A credit represents at least 60 minutes of direct instruction, or its equivalent, per week over a semester of 16 weeks or at least 120 minutes of direct instruction, or its equivalent, per week over a half-semester of 8 weeks. In the case of laboratory work, internships, practica, studio work, and similar activities, the assignment of credits shall consider the number of hours required, the nature of the learning experience, and common practices in the discipline, recognizing that such learning experiences generally carry less credit per hour.

Thus, the number of credit hours allowed for a course will consider the intended learning outcomes for the course, the number of hours of direct instruction or its equivalent during the semester or half-semester, and the nature and rigor of expectations for work done outside of class. Online and summer school offerings shall have the same learning outcomes and expectations as courses offered on campus, but schedules, assignments, and delivery modes may be different. Departments shall regularly review existing courses to ensure that courses carry the appropriate amount of credit, and that courses offered by different faculty or in different formats have similar outcomes, expectations, and evaluations of student learning. Proposals for new courses must be submitted to the Academic Affairs Committee with a rationale that demonstrates how the proposed credits meet the above criteria.

Graduation

Application for graduation

Students who anticipate graduating at the spring commencement must file an application for graduation with the registrar. Upon submission of a graduation application, students will receive a degree audit review letter from the registrar confirming degree completion requirements. Students who intend to complete their degree requirements during the summer will participate in the preceding spring commencement and have until August 15 to complete their requirements.

Catalog governing graduation

Students in continuous enrollment must meet the degree requirements of the catalog in effect when they entered the college, unless arrangements have been made with the dean of the faculty and registrar to graduate under a later catalog. Students failing to complete degree requirements within a reasonable period of time (six years) may forfeit any right to graduate under the regulations in effect at the time of matriculation.

Students returning after discontinuing studies for two or more semesters will come under the requirements of the newest Northwestern College catalog.

Graduating honors for B.A. or B.S. degree

A student will graduate with academic honors if his or her cumulative grade point average meets one of the following standards of excellence: Summa Cum Laude, 3.90 or above; Magna Cum Laude, 3.70-3.89; Cum Laude, 3.50-3.69. For transfer students, a minimum of 62 earned credits of course work must be taken at Northwestern College in order to graduate with honors.

Students meeting the requirements of the Honors Program shall be designated as Honors Program graduates (see the Honors Program section of this catalog).

Registration procedures

New students: Students who have been accepted for admission and paid the \$100 enrollment deposit will receive registration instructions in connection with the orientation program. New or transfer students entering in the fall may register on one of the two orientation/registration days (usually in late May) or by mail during the summer. A faculty adviser will assist the student in planning a program of study.

Former students: Students returning to Northwestern College after a semester or more of absence should contact the admissions office. Students will be sent the necessary registration materials when they become available.

Enrolled students: Pre-registration for enrolled students who plan to return for the next academic year is held in March/April for the fall semester and in October/November for the spring semester. Enrolled students who pre-register and later decide not to return to school in the fall must notify the registrar's office before July 1 of the school year. Students registered for second semester must notify the registrar's office of their withdrawal before classes start in January. Failure to notify the registrar's office will result in forfeiting the \$100 enrollment deposit.

All students: Class attendance is not permitted until registration is completed with the registrar's office and financial arrangements made with the business office.

Generally students must fulfill the academic requirements that were in effect when they first enrolled at Northwestern College (see graduation section of catalog). If requirements change, students may choose to fulfill the requirements of a subsequent catalog. The college reserves the right to change requirements and also has the right to cancel classes if registration is insufficient.

Change of registration - adding & dropping courses

All course changes can be made in the registrar's office or online through MyNorthwestern before the deadline listed in the academic calendar. Appropriate signatures must accompany the Change in Registration form.

Class attendance

Since a student benefits from regular class attendance and suffers if class is missed often, it is incumbent upon the student to attend regularly and to finalize their academic program as early in the semester as possible. Regular class attendance is essential to scholarship. Each faculty member establishes their own attendance policy. Students shall inform instructors of any anticipated class absences. Penalties or makeup privileges shall be left to the discretion of the instructor. Instructors may reduce grades for absences, particularly if the nature of the class procedure depends on student participation. If such a reduction may be made, it shall be so stated in the course syllabus.

In order to comply with the U.S. Department of Education regulations, the college is required to document whether or not a student begins attendance in enough credit hours to support the full-time or part-time enrollment status for which Title IV federal funds are awarded and disbursed. Students who have not begun attendance, or who have not participated in an academically-related activity, in a registered course by the 5th day of classes will receive notification from the registrar's office to either attend class or drop it. Students who have not established attendance in a registered course by the 7th day of classes will be administratively dropped from the course by the registrar's office. The registrar's office will notify the financial aid office if the schedule change affects a student's enrollment status.

As defined by the U.S. Department of Education, an "academically-related activity" includes, but is not limited to:

- Physically attending the class
- Submitting an academic assignment
- Taking an exam, an interactive tutorial, or computer-assisted instruction
- Attending a study group that is assigned by the institution
- Participating in an online discussion about academic matters
- Initiating contact with a faculty member to ask a question about the academic subject studied in the course

Withdrawal procedure

Students who wish to withdraw from college during a semester must obtain a withdrawal form from the student development office and complete the withdrawal process by obtaining the necessary signatures. Students will be granted honorable dismissal and receive W's in their registered courses provided the withdrawal process is completed within the time limit for dropping courses (the 25th class day of the term for half semester courses or the 50th class day for full semester courses). Determination of tuition, room and board refunds is based upon the date the student initiates the withdrawal process.

A student who is unable to complete a semester's course work due to serious physical, emotional or psychological distress may qualify for special consideration. Such students must be recommended by the director of counseling services to the dean of student life or the provost, who have the authority to make voluntary or involuntary medical leave decisions and to authorize other college officials (i.e., financial aid, comptroller) to make decisions based on contextual or individual circumstances. Such students leaving prior to the deadline for dropping classes with a "W" will withdraw from the college with W's for all courses, as would any other student.

A student who is withdrawing under the special withdrawal policy after the official drop deadline may be granted W's for all courses or (with the professor's approval) incompletes for all courses. Students taking an "I" will have until six weeks following the end of that semester to complete the course work. If the course is not completed, the grade for that course will revert to a "W."

Students who leave college without completing the official withdrawal process (or after the deadline for dropping courses) may not be granted honorable dismissal. A grade of "F" is given in each course in which they were registered.

Note: All completed withdrawal forms must be returned to the Student Development Office within two weeks of notifying either the Registrar's Office or the Student Development Office of the student's intent to withdraw from college. If this two-week period falls within the last two weeks of the semester, the completed withdrawal form must be returned by the last day of classes.

Transcripts

Transcripts are processed in the registrar's office. In accordance with federal law, transcripts cannot be released without the written consent of the student. Transcripts are \$5 each for non-completers, but are free of charge for graduates and current students of Northwestern College. Transcripts should be sent directly to another college or university or to an official of an organization. All transcripts released to the student will be stamped "issued to student." This advises a third party that the student had personal possession of the transcript. Because this transcript bears the Northwestern seal, it is still considered an official document. No educational record (e.g. transcript, diploma, non-immigrant status transfer, etc.) will be released until all financial obligations to the college have been met. There is a \$25 charge for express mailing of transcripts.

Transcript of credits earned in high school or other colleges are not available for distribution by Northwestern College. These transcripts must be requested from the school awarding the credit. For information on ACT or SAT scores, students should inquire at their high school.

Financial information

Account payments

Students are required to pay the balance on their account in full by August 1 each year in order to keep their reservation in the residence halls as well as their registration for classes. In those instances where a payment plan is desired, **arrangements must be made with the business office by July 1 for first semester and by November 15 for second semester.** The monthly payment plan available is as follows:

A \$25-per-semester handling charge is added to the account and no interest charges are assessed, unless a payment is delinquent.

10-month plan

Each semester's balance will be divided into five payments. For first semester, the first payment will be due on July 25 in order to keep a student's registration for classes. The remaining four payments will be due on August 25, September 25, October 25 and November 25.

At registration for second semester (in November) the balance for second semester will be divided into five payments due December 25, January 25, February 25, March 25 and April 25.

If a payment is not made on the date it is due, the entire balance becomes due and interest of 1 percent per month (12 percent per year) will be charged to the student's account. Students who are delinquent in payment may be denied access to classes, computer usage, and campus facilities. Diplomas, transcripts and credentials will be withheld until accounts are settled.

Interest

For students not on a monthly payment plan, interest of 1 percent per month (12 percent per year) will be charged on the student's outstanding balance.

Tuition and related fees

Detailed information about costs and related fees can be found at www.nwciowa.edu/tuition.

Tuition Insurance

Students will receive under a separate cover in July an offer from A.W.G Dewar, Inc. called Tuition Refund Plan. This plan provides insurance for tuition and fee refunds.

A.W.G. Dewar, Inc. is a private insurance program that supplements Northwestern's refund policy. Participation in the Tuition Refund Plan (T.R.P.) is entirely optional and the College's refund program is applicable whether or not you enroll in the T.R.P. We encourage you to read the T.R.P. brochure carefully to consider the suitability of the T.R.P. for you.

For more information about the plan, please address them to A.W.G. Dewar at:

A.W.G. Dewar, Inc.

617-774-1555

www.collegerefund.com

Institutional refund/repayment policy

The refund policy applies when a student fails to complete the enrollment period for which he/she has been charged. When a student withdraws, drops out or is dismissed for disciplinary or academic reasons, this policy will apply. Appeal procedures are governed by the student handbook in the "Academic affairs" section under "Required withdrawal".

The effective date used to calculate the student's refund or repayment is documented on the student's official college withdrawal form. It is the student's responsibility to initiate the completion of the appropriate withdrawal form:

- Complete the online withdrawal form if you are enrolled in all online courses or if you are attending summer school on-campus or online.
- Complete the withdrawal form available in the Student Development office if you are a residential student taking all on-campus courses or a combination of on-campus/online courses.

Upon receipt of the completed withdrawal form, the business office will calculate the refund/repayment in a timely manner.

This policy does not apply to students who drop classes but remain enrolled at least on a part-time basis at Northwestern. For these students, no refund will be provided, and financial aid will not change after the fifth day of the Fall and Spring semesters and after the fifth day of each summer session.

Tuition, room and board is refundable on a prorated basis if the student withdraws prior to completing 60% of the enrollment period. After 60% of the enrollment period has been completed, no refund is given. A 100% refund is given on or before the first day of classes. All fees are nonrefundable. Private or institutional student financial assistance programs will follow the same percentages when returning aid as calculated for tuition, room and board.

The percentage of the enrollment period completed represents the percentage of charges owed and aid earned by the student. This percentage is determined by dividing the number of days enrolled by the number of calendar days in the enrollment period. Weekends and holidays are included in the number of days, but breaks of five or more consecutive days are excluded.

Return of Title IV funds policy

Title IV funds are federal financial assistance in the form of Stafford Loans, Perkins Loans, Parent Loans for Undergraduate Students (PLUS), Pell Grants, Supplemental Educational Opportunity Grants (SEOG), and TEACH Grants. Federal regulations require the following treatment of Title IV funds when a student withdraws from an institution. The federal formula requires a return of the Title IV aid if the student received federal financial assistance as noted above and withdrew on or before completing 60 percent of the enrollment period. The percentage of Title IV aid to be returned is equal to the number of days remaining in the enrollment period divided by the number of calendar days in the enrollment period. Scheduled breaks of five or more consecutive days are excluded. If 60 percent or more of the enrollment period has been completed by the student, no Title IV aid needs to be returned.

Aid that must be refunded or repaid will be restored to the various financial assistance programs in the following order to the extent of the aid from each source:

1. Unsubsidized Federal Stafford Loans
2. Subsidized Federal Stafford Loans
3. Federal Perkins Loans
4. Federal PLUS Loans
5. Federal Pell Grants
6. Federal Supplemental Educational Opportunity Grants (SEOG)
7. TEACH Grants
8. Other Title IV Aid

Please note that any other federal and student financial assistance programs will follow the same percentages when returning aid as calculated for the Title IV programs.

Refund Policy For Students Called to Active Military Service

A student who withdraws from Northwestern College as a result of the student being called to active duty (or the spouse of a serviceperson that has a dependent child, if the spouse is the student) in a military service of the United States or a state military service shall receive a full refund of tuition and required fees for courses not completed.

Financial assistance

Students seeking financial aid must submit the Free Application for Federal Student Aid (FAFSA). Be sure to list Northwestern College in the information release section. Northwestern's Title IV code is 001883. Application forms are available in high school guidance offices and on the Web (www.fafsa.ed.gov).

Students selected for verification must submit the verification worksheet and student and parent federal 1040 tax forms as soon as possible. Financial aid packages for first- time students are estimates until verification is complete. No financial aid packages are awarded for returning students until verification is complete.

Veteran's benefits

Any student who is eligible for financial assistance from the Veterans Administration should contact the registrar's office. This office will assist students in the certification process. Veterans are required by the Veterans Administration to maintain satisfactory progress in their educational program.

Northwestern College offers the following options to a student who is a member, or the spouse of a member if the member has a dependent child, of the national guard or reserve forces of the United States and who is ordered to state military or federal service or duty.

1. Withdraw from the student's entire registration and receive a full refund of tuition and mandatory fees.
2. Make arrangements with the student's instructors for course grades, or for incompletes that shall be completed by the student at a later date. If such arrangements are made, the student's registration shall remain intact and tuition and mandatory fees shall be assessed for the courses in full.
3. Make arrangements with only some of the student's instructors for grades, or for incompletes that shall be completed by the student at a later date. If such arrangements are made, the registration for those courses shall remain intact and tuition and mandatory fees shall be assessed for those courses. Any course for which arrangements cannot be made for grades or incompletes shall be considered dropped and the tuition and mandatory fees for the course refunded.

Financial aid good standing and satisfactory progress policy

The Education Amendment of 1980, amended 1983, requires Northwestern College to define and monitor Standards of Satisfactory Progress for students receiving federal financial aid from one or more of the following programs: (1) Federal Pell Grant, (2) Federal Perkins Loan, (3) Federal Supplemental Educational Opportunity Grant (SEOG), (4) Federal Work-Study Program, (5) Federal Direct Loan Programs. The Iowa Tuition Grant (ITG) is funded by the state of Iowa and has the same requirements.

Standards of satisfactory progress are established to encourage students to complete courses for which aid is received and progress satisfactorily toward the achievement of a degree. Completion of courses is defined as receiving one of the following grades: A, B, C, D, or Pass.

Duration of eligibility - It is expected that students will complete their undergraduate work within a time frame that does not exceed 150 percent of the published length of the program for a full-time student for satisfactory academic progress. Full-time students may receive federal financial aid for a maximum of 12 semesters of full-time awards. Half-time students are eligible for a maximum of 24 semesters of half-time awards.

Grade point average - To receive federal financial aid, a student must maintain the required minimum semester grade point average based on credits attempted. See "Academic progress policy" in the academic life section of this catalog.

Satisfactory progress - Satisfactory progress is defined as successfully completing course requirements in the necessary time frame with a minimum semester GPA. Incompletes, withdrawals and audits are considered unsatisfactory. However, incompletes which are later changed into A-D grades are satisfactory for good standing and satisfactory progress purposes. It is the student's responsibility to notify the financial aid office of any change.

Financial aid eligibility during probation or suspension semesters - According to government regulations, every student who receives federal or state financial aid must be making satisfactory academic progress toward a degree program in order to continue to be eligible for federal, state or institutional funds. Thus, a student's progress is reviewed each semester. Students on academic probation will continue to receive financial aid during the probationary semester. However, they will need to earn the minimum grade point at the end of the semester in order to qualify for these funds and to be considered as making satisfactory progress for the next semester of enrollment. A student placed on academic probation will not be eligible to receive an activity scholarship during the probationary semester.

Appeal procedure - Upon receiving a written petition from a student whose financial aid eligibility has been terminated under the conditions stipulated above, the Admissions, Retention and Honors Committee may reinstate the student to eligible status by means of a signed memorandum, accompanied by the petition, to the director of financial aid. The written petition must explain why the student did not meet the satisfactory progress requirement, what extraordinary circumstances, if any, intervened, and how the student expects to continue making good progress toward a degree objective (what steps will be taken, if any, to make up the needed credits).

Monitoring system - Those students placed on probation status or whose eligibility for aid has been terminated will have their progress monitored in the next semester they are enrolled, whether or not they receive aid for that semester. If satisfactory progress is resumed at the end of the semester, full eligibility for aid consideration will be reinstated the following semester, and the student's name will be removed from the monitoring system.

Scholarships and grants

Honor scholarships

Honor scholarships are awarded to high school graduates in the top quarter of their class who have satisfactory ACT or SAT scores, and to transfer students who have a 3.00 grade point average with a minimum of 24 hours. Honor scholarships vary in amount and are renewable each year for a total of eight semesters, as long as the student maintains a 2.75 cumulative college GPA at the end of the freshman year; thereafter, renewal requires a 3.00 cumulative GPA. Full-time enrollment is required.

Norman Vincent Peale Scholarship Program

Each year a minimum of six honor scholarships, each worth \$18,000, will be awarded to incoming freshmen who exhibit high academic ability and who possess school, church and community leadership skills. These are renewable each year, provided the student maintains a 3.00 cumulative grade point average. To apply, each applicant must meet the following criteria: a ranking within the top 10 percent of their high school class or a minimum 3.7 cumulative grade point average; a minimum ACT score of 27 or SAT equivalent; evidence of a strong Christian commitment; demonstration of leadership skills and involvement in school, church or community activities; and enrollment as a full-time student at Northwestern College beginning in the fall semester. Students ranking #1 in their class with a 23 ACT are also eligible. Candidates must apply and be accepted for admission to Northwestern College prior to competing in the scholarship competition.

Activity scholarships

A limited number of activity scholarships are available through the art, theatre, music and athletic departments. Activity scholarships are based upon students' special achievements and their potential for further development. Activity scholarships are given for a year at a time and are reviewed at the end of each year. To be eligible for an activity scholarship, students must meet the following requirements:

- New students must fulfill all entrance requirements at Northwestern.
- They must actively participate in the activity in which they seek an award.
- They must have been recommended by the department granting the award.

- Athletes must meet the eligibility rules of the Great Plains Athletic Conference (GPAC) and the National Association of Intercollegiate Athletics (NAIA). Check with the coach or athletic director for requirements.
- A student who is receiving an activity scholarship must be in good academic standing and meet eligibility requirements (see "Academic progress policy" in the academic life section of this catalog). If a student is placed on academic probation, he or she will not be eligible to receive an activity scholarship during the probationary semester. If the grade point is raised during the probationary semester, the respective department may again award an activity scholarship for the following semester.

Legacy Grant

Legacy Grants are available to full-time students with a family or church connection to Northwestern. They are not given based on FAFSA information. Students are eligible for a Legacy Grant if:

- A parent or grandparent attended Northwestern for at least 3 semesters
- A sibling is currently enrolled or has graduated from NWC
- The student attends a Reformed Church in America congregation

Students receive a \$1,500 Legacy Grant if they meet one of the above criteria, \$2,000 if they meet two, or \$2,500 for meeting all three. This grant remains in effect for up to four years.

Iowa Tuition Grant Program

The Iowa Tuition Grant Program provides funds to Iowa residents who attend a private college in the state. This money helps make up the difference between tuition at the private college and the average tuition at the three state universities. A student may receive up to \$4,000, provided state funding is available, depending on the student's financial need and enrollment. Application is made by filing the Free Application for Federal Student Aid (FAFSA) form by July 1 and listing Northwestern College as a recipient of the form. There is an eight-semester limit on the Iowa Tuition Grant.

Federal Pell Grant

The Federal Pell Grant is a federal program that makes funds available to eligible students attending approved colleges. Application is made by filing the FAFSA. A student will receive a notification of eligibility in a Student Aid Report (SAR). This notification is also received by Northwestern's financial aid office, where the amount of the grant is then calculated.

Federal Supplemental Educational Opportunity Grant

The Supplemental Educational Opportunity Grant (SEOG) is available to a limited number of undergraduate students with financial need.

TEACH Grant

Through the College Cost Reduction and Access Act of 2007, Congress created the Teacher Education Assistance for College and Higher Education (TEACH) Grant Program. It provides grants of up to \$4,000 per year to students with a 3.25 GPA, who are pursuing a teaching degree, and who intend to teach in a public or private elementary or secondary school that serves students from low-income families.

Northwestern College student employment

Campus employment is available to all students who wish to work on campus. Many students have been able to earn part of their tuition by doing necessary work in college offices, the library, residence halls, campus maintenance and the dining hall. Students are free to interview for open positions. Summer employment is also available in various departments.

Loans

Federal Perkins Loan Program

The Federal Perkins Loan is for students who are enrolled at least halftime and who meet the required need factor. Repayment begins nine months after students graduate or leave school for other reasons; they may be allowed up to 10 years to repay the loan. During the repayment period, there is a charge of 5 percent interest on the unpaid balance of the loan principal. If students serve in the Peace Corps or Vista, no payments are required for up to three years.

Direct /Stafford Loan Program

This loan program is designed to assist families in the financing of higher education for their children. Repayment begins six months after a student graduates, leaves school or drops below half-time enrollment. During the repayment period, there is a fixed interest rate on the unpaid balance currently at 6.8% for unsubsidized and subsidized loans. Anyone who files the FAFSA is eligible for this loan. An origination fee of 1% percent is charged by the government.

Northwestern College Rotary Loan

The college administers a fund, provided by Christian friends, for worthy students who need assistance. During the repayment period, a rate of 7 percent interest is charged on the unpaid balance of the loan principal.

McElroy Loan

A college-administered loan for students who best combine the qualities of leadership, citizenship, scholarship, and community and school service. During the repayment period, a rate of 7 percent interest is charged on the unpaid balance of the loan principal.

Federal Parent PLUS Loans and Private Student Loans

These loans may be used to supplement the financial aid package if there is additional need. Additional information and applications for these loans can be obtained at www.nwciowa.edu/financialaid or www.studentloans.gov.

Student life

Campus life

Much of a student's time in college is spent outside the classroom. As a result, Northwestern College provides many activities that are organized by students and advised by faculty and staff members. These activities are co-curricular, they are designed to supplement the academic curriculum. They are also designed to provide opportunities for students to develop their individual talents. Because each student has different interests and talents, a variety of activities are offered.

Student services

Wellness center

The Wellness Center provides services designed to keep student healthy in mind and body, in order to equip you to succeed academically, live healthy and independent lives and to be fully ready for whatever God calls you to. We want to be a resource for whatever you need to know: how to prevent injuries, deal with disappointments, recover from an illness, or how to make stress work for you. Services will be provided with respect for the unique needs of the student in a safe, confidential setting. All services may be accessed by calling 707-7321, or by stopping during office hours: 8:00-4:30 Monday through Friday.

Counseling: The Wellness Center provides professional assessment and therapy at no cost for those students who are facing emotional, personal or relational difficulties and assists in developing strategies for handling problems of daily living. All full-time students are welcome to use these services, subject to availability. If all appointments are full, students may choose between going on a waiting list for NWC counseling services or being referred to off-campus services in the community. Students may choose to seek help during times of personal difficulty for issues such as depression, death of a loved one, traumatic family experiences, sexual assault, suicidal thoughts, eating disorders, body image issues, drug/alcohol abuse, adjustment difficulties, medical/health problems, identity issues, stress, relational/roommate issues, dating, violence, pornography, addiction, anxiety, or with any other personal concerns. The Wellness Center offers individual counseling, couples counseling, assessment and evaluation, information and referral, consultation, crisis intervention, and workshops on requested topics. Books and other printed resources are also available for students to borrow.

Physical Health: All full-time students are required to have a physical and report the dates for the following immunizations: TDAP within the last 10 years, MMR 1 and MMR 2. Meningitis if living in campus housing and Hepatitis B series are strongly recommended. A certified nurse practitioner is available on a part-time basis to students for their physical health concerns. The nurse practitioner is available for assessment and treatment of illness or injury, routine physical exams, women's gynecological exams, blood pressure checks, and is happy to provide information or programs regarding a wide variety of health related topics. Health services will be provided through an arrangement with Orange City Area Health System (OCAHS) as a satellite office located on campus. Regular clinic charges will apply to health visits. Because it is convenient, and geared toward student needs, students will generally want to seek assistance in the Wellness Center before going off-campus. However, off-campus referrals are offered by the Wellness Center when students prefer an outside referral or when the Wellness Center schedule is filled to capacity.

If you are sick, injured, or have a psychological or an emotional crisis after regular office hours, contact your RA or RD. RD's have access to the on-call therapist. For medical emergencies, each RD maintains a first aid medical kit containing minor medical items for student use. Orange City also has a medical clinic that has served the college for many years. A community hospital and emergency room (located one mile east of the college on Highway 10) is available 24 hours a day. 9-911 access is available. In the event of a minor illness, the student should isolate him/herself as much as possible to prevent the spread of disease through the residence area. Sick tray requests may be obtained through the RA.

Students are not automatically covered by the college in case of illness or injury that requires off-campus medical attention or hospitalization. A student who is not fully covered by a family health care policy is strongly urged to purchase this coverage or purchase a medical policy on their own. This policy is not a blanket policy covering all expenses, but it does provide adequate coverage. An enrollment form and an information brochure for international students are available from Northwestern College's Business Office. Domestic students should review plan details and apply online at www.sas-mn.com.

Note to Students: Questions concerning your insurance coverage for these treatment programs should be directed to your health insurance provider. If you have the NW student health insurance, you may direct questions to: Student Assurance Services, Inc.

Career planning

As part of the Center for Spiritual Formation and Vocation, the Career Development Center seeks to assist students in discovering their unique calling and their fit as citizens in the kingdom of God. Staff members are dedicated to helping students understand their unique gifts, talent and DNA identity, as well as how they see the brokenness of the world. Where these two aspects meet is where vocation is born.

The Career Development Center provides personal professional service to both students and alumni in career planning and placement. Information on various businesses, social agencies, government associations and graduate schools is available in the center.

Many students know the uncomfortable feeling associated with a lack of direction, definite goals or meaning in their academic life as they look to the world of work and their identity within that world. Career planning assists students in developing an understanding of themselves and the world of work, and then builds on that understanding so that effective career decisions can be made.

Career development staff members provide personal career counseling. They administer the Strong Interest Inventory and the Meyers-Briggs Type Indicator to help students identify their interests and match those interests with various career areas. They offer a career planning workshop to help students with decision-making skills, values clarification and skills identification. They advise students interested in internships and off-campus study programs (see the section on off-campus study programs). They contact employers to arrange for quality internship experiences in numerous cities in Iowa and throughout the country and assist students with internship applications. (See department internships under the section. "individualized courses and programs.")

Career placement

In addition to working in career planning, the staff of the Career Development Center assists students with career placement, maintaining a professional credential file, giving notification of position vacancies and interview schedules.

Students are assisted with their job search through individual counseling, group meetings and publications. Skills in writing a resumé, identifying potential employers, interviewing and job-hunting are developed with students throughout the academic year.

Graduate school information is also available in the Career Development Center, as well as announcements and registration materials for the GRE, GMAT and LSAT.

Students are encouraged to register with the Career Development Center's career management website (www.nwcareerconnections.com).

Part-time and summer jobs

In addition to its work in career planning and placement, the Career Development Center assists students in locating part-time employment opportunities off campus, as well as summer employment.

Campus life guidelines

To enjoy life in any community, those participating need to know and accept the expectations and goals of the community. For the Northwestern community, that implies two things. Northwestern is an academic community. Therefore, those who come here should be committed to being students, wanting to develop skills and acquire knowledge that will stretch their minds. This means a student willingly commits a large portion of time to disciplined study and research. Northwestern is also a Christian community. Those who come here should seriously desire to live in a community that believes Jesus Christ is Lord of all areas of

life. This means that lives and thoughts are to be guided by biblical principles. The effects of such a commitment are evident in all areas of college life.

Certain expectations of students enrolled at Northwestern have been established to promote freedom while encouraging personal responsibility. The following are basic guidelines and do not represent an exhaustive listing of lifestyle expectations. Please consult the current student handbook for more specific information.

1. Visitation in residence halls by members of the opposite sex is allowed only during specific hours (see handbook). Residence halls are open to visitors on a limited basis to ensure residents the privacy they need for study and personal development. Students are required to respect the visitation expectations.
2. The abuse of alcoholic beverages is contrary to the biblical principles that life, health and one's rational powers are sacred trusts not to be willfully destroyed or impaired. While recognizing Christian liberty, Northwestern has adopted a policy for all members of the campus community that calls for abstinence on campus, in college housing and at college-sponsored off-campus events. This policy was developed to ensure a campus climate in which abstinence is respected as a pattern for all of life, and to counteract the effect of peer pressures that lead some to engage in excessive drinking when alcohol is a part of campus life. Students are required to respect the college's stance on alcohol usage.
3. Possession, selling or use of illegal or hallucinogenic drugs or intoxicants, misuse of over-the-counter drugs, and misuse of drugs prescribed by a medical doctor for medical purposes is prohibited on and off campus.
4. Chapel is a gathering time for the community. All full-time students are required to accumulate 45 chapel credits per semester.
5. All students are expected to live on campus unless they receive permission from the office of student development for commuter status.

If an expectation is violated, the student development staff uses a contract system designed to help the student make responsible decisions regarding future actions. The contract system is viewed as a method of redemptive instruction, which will encourage the student to grow and develop as a member of the college community. The contract system is based upon guidelines in the New Testament. Since discipline at Northwestern is a redemptive process and not a legal proceeding, lawyers are not necessary or allowed to participate in the process.

A student suspended from college for disciplinary reasons after the drop deadline will receive a grade of either W or WF in each course. A grade of W is reserved for courses which the student is currently passing. For each course, this determination will be made by the instructor and will be based upon all course materials due before the time of withdrawal. Students citing and providing evidence for extenuating circumstances may appeal to the dean of faculty to change a withdrawal-based WF to a W.

Residence life

Northwestern provides housing for students in residence halls, apartments and cottages adjacent to campus. Upperclassmen are given priority for living in apartments and cottages.

The residence life experience is an important part of a student's education. It provides an opportunity to live, interact and share with a variety of people who have differing backgrounds, interests and values. In Northwestern College's residence facilities, students are able to develop meaningful relationships and the socialization skills that are necessary to be an effective community member. They have the opportunity to develop moral and spiritual values within a supportive environment. In short, the experiences students have in the residence facilities form an integral part of their growth and development as individuals.

General policies concerning room and board

1. All students desiring room and board should correspond with the college as soon as possible. All non-commuting students must live in college housing. Any exceptions in housing arrangements must be submitted to the associate dean for residence life for approval.
2. Room and board rates are not reduced by absences and are payable in advance.
3. Residence hall rooms must be vacated within 24 hours of the student's last exam or commencement exercises in which they participate or before housing closes, whichever occurs first. Room and board will not be provided during Christmas break and spring break.
4. Students are responsible for leaving rooms in good condition and will be obligated to pay for any damages done to the room or its contents during occupancy.
5. Student teachers, interns, and those living in apartments or cottages are eligible to participate in a reduced meal plan.

Student organizations

Student activities at Northwestern enhance the learning each student receives in the classroom. Students are provided opportunities outside the classroom to integrate living and learning.

Students can choose from a variety of social and cultural activities available at Northwestern. Northwestern offers a wide range of clubs and organizations in which students can participate. For more information about student activities or the current clubs and organizations, refer to the college web page at www.nwciowa.edu/studentlife/clubs.

Intramurals

The intramural program at Northwestern is a vital part of campus life and was instrumental in the development of the DeWitt Physical Fitness Center. Approximately 40 percent of the people on campus are involved in the program throughout the academic year. The purpose of the intramural program is to provide a fun environment that stresses the development of positive lifelong attitudes toward recreational activity and personal fitness. A wide variety of activities are offered to appeal to the varied interests on campus. Many activities are offered by skill level to satisfy both the need of a student looking for a competitive league and the student who is looking for a league for enjoyment and involvement. Activities are offered for men, women, co-recreational, for singles and doubles play.

Over 20 different activities are offered each year. The activities include flag football, co-rec volleyball, pickleball, racquetball, badminton, softball, chess, tennis, golf, bowling, basketball, wallyball and other game room activities. The intramural program is a great way to get involved in the campus community and to stay fit.

Campus ministry

Spiritual formation-- the process of becoming transformed by God-- is essential to the integration of faith, learning and living. Spiritual development is the lifelong journey of following Jesus with openness to the Holy Spirit and responding to what God does and says. As we learn to love God with our whole heart, soul, mind and strength, and love our neighbors as ourselves, campus ministry provides opportunities for spiritual growth in worship, prayer, study and service.

Worship: We grow in faith as we worship God. We honor God with a variety of worship expressions, biblical instruction, a broad range of music, provocative exchange of ideas, and personal sharing of story. Generally, all of life is worship; specific places of worship include daily (almost) chapel, Sunday night Praise and Worship and participation in local churches.

Prayer: We grow in faith in the practice of prayer. Individually and community, contemplation and prayer permeate the learning environment at Northwestern College thru prayer groups, centering prayer, devotional prayer, prayer retreats and a prayer chapel.

Study: We grow in faith as we study about God. Discipleship groups offer the opportunity to study the Bible, pray in community and engage in conversations that integrate faith into all aspects of life. Campus forums encourage discussion and awareness about issues of faith in our world, for example: evangelism, racial reconciliation, international justice, political oppression, hunger, disease, consumerism, poverty, relationships and stewardship.

Service: We grow in faith by loving, understanding and serving the world. Service is responding to God's love by showing love and seeking justice. There are programs for individuals or groups to participate in cross-cultural experiences locally, regionally or globally in the summer, in the midst of the academic calendar or during breaks. There are other service opportunities such as visiting prisons, feeding the hungry, building homes, tutoring, or simply being a friend.

Leadership Opportunities: We grow in faith as we learn to lead and be led in Christ-honoring ways. Leadership can be expressed informally as well as through designated leadership positions. We value practical leadership experience for students and therefore offer approximately 30 paid and 75 volunteer ministry leadership positions for students. These leadership positions are focused on engaging the campus in worship, prayer, study, and service.

Guidelines for admission

Northwestern College does not discriminate on the basis of race, national or ethnic origin, gender, age or disability in any of its policies or procedures. Each applicant is considered on the basis of probable success at Northwestern College as indicated primarily by high school record (minimum 2.00 high school GPA required) and standardized test scores (minimum composite score(s); 18 ACT/ 890 SAT required). Students meeting these minimum requirements may be fully admitted.

With submission of additional materials, students not meeting minimum admission standards may apply for competitive "conditional" enrollment (see following section for details).

Competitive conditional application process

Students admitted conditionally take a maximum of 13 credits in their first semester. Adjustments to student schedules at midterm may be done at the discretion of their advisor and the registrar.

A maximum of 20 conditional application slots are available each year. Conditional applications will be considered as they are received. Applications will be considered up to, but no later than, June 15. Each application must contain the following:

1. Cover letter that expresses:

- why the student believes they should be granted conditional acceptance to Northwestern,
- the student's specific plans to succeed academically at Northwestern,
- acknowledgment/acceptance of the conditional admission terms.

2. Completed Insight Resume

3. Two letters of recommendation from high school teachers that testify to the student's academic potential and commitment.

Once a conditional application is received, the materials will be reviewed by the Director of Admissions and the Director of Academic Support to determine whether or not the student will be admitted conditionally.

Campus visits

Qualities of character are important at Northwestern College. Therefore, personal interviews and campus visits are encouraged, though not required, in determining admission. Appointments for interviews and campus visits should be made at least three days in advance by calling the admissions office at 1-800-747-4757 or by registering on-line at www.nwciowa.edu/visit. The admissions office is open from 8 a.m. to noon and from 1 to 5 p.m. Monday through Friday and Saturday morning by appointment.

Application

Students interested in attending Northwestern College can obtain application information from the admissions office or from Northwestern's website (www.nwciowa.edu/apply). Students are encouraged to submit an application early in their senior year of high school. Once accepted by the college, the applicant must maintain a satisfactory record through the completion of high school. A certificate of satisfactory health is also required before enrolling.

Preparation

Northwestern accepts students who demonstrate the ability to do satisfactory college work. Students seeking admission to Northwestern College must have a completed secondary school transcript or received a High School Equivalency Certificate (GED). The following preparatory courses are *recommended*:

- Four years of English
- Three years of mathematics
- Three years of social studies
- Three years of foreign language
- Two years of natural science

How to apply for admission

Application for Admission forms, available from the Northwestern College admissions office or from the college website, may be submitted at any time. However, students are encouraged to apply early in their senior year. To apply for admission:

- Submit to the Northwestern College admissions office a paper copy or online application for admission.
- Arrange to have a current high school transcript sent to the admissions office. A counselor's evaluation is also required.
- Take either the American College Test (ACT code: 1346) or the Scholastic Aptitude Test (SAT code: 6490), designating Northwestern College to receive the test results. Information about these tests and application forms can be obtained at high school counseling offices or online at ACT.org or collegeboard.com.
- A deposit of \$100 is required prior to registering for classes and being placed in student housing. The housing form should accompany the deposit. Registration information is mailed to new students in mid-April. Room and roommate assignments are usually made by mid-July. The deposit is refundable until May 1. Once students conclude their education at Northwestern, the deposit is refunded provided the student has no outstanding bills.
- A medical history shall be submitted prior to enrollment.

Non-degree seeking student admission policy

Non-degree seeking students should complete the appropriate application for admission. Application instructions are located on the admissions website at www.nwciowa.edu/apply. Non-degree seeking students will be allowed to attempt up to 12 total credits, though this does not apply to students participating in Post Secondary Enrollment Options (PSEO). Non-degree seeking students are not required to submit academic records (final high school/college transcripts and standardized test scores) to gain non-degree admission. However, students seeking non-degree (PSEO) admission while they are concurrently enrolled in high school must furnish appropriate approval documentation from the high school along with a copy of the most current high school transcript. Certain non-degree endorsements and certifications require additional documentation, depending on the specific program.

Non-degree seeking students generally are not eligible for financial aid. If a non-degree student would like to pursue a degree, the student will need to complete a traditional application. New students wishing to audit a course are subject to the above documentation requirements.

Students taking all of their courses online are not required to pay an enrollment deposit. Students completing any face-to-face courses will need to submit a \$100 enrollment deposit.

Guest students from other colleges who are interested in studying abroad through one of Northwestern's semester long or summer study-abroad programs must meet admissions criteria specific to those programs. For more details, please go to the study abroad website at www.nwciowa.edu/study-abroad. Typically, these students are required to provide unofficial high school or college transcripts along with two recommendations from college faculty members.

Previous preparation

Northwestern College grants college credit toward a degree on the basis of performance in the following examinations or for transfer course work completed via correspondence or the Internet. The amount and distribution of credit shall be determined by the registrar in conjunction with the chairperson in the department in which the credit is given. The maximum amount of credit awarded for examinations listed below may not exceed 4 credits. A grade of "Pass" will be listed on the transcript for examination credit and for only those courses numbered in the 100s or 200s. Correspondence/Internet-based course work from another institution will be recorded on the transcript as transfer work. For details, refer to the college web page at www.nwciowa.edu/registrar/transfercredits.

CLEP Credit is given for performance in "subject examinations," but not in "general examinations," and only if an analogous course is offered at Northwestern. Credit is given if a student's numerical score on the CLEP examination is the equivalent of a college grade of "C" or better as determined by CEEB norms. Students should consult the academic department for the discipline being tested if the student is majoring in that area. Students should also be aware that most graduate schools do not accept CLEP credits.

Advanced Placement Students who wish to receive credit for advanced placement on the basis of college-level courses taken in high school must present the examination scores from the College Entrance Examination Board. Credit will be granted for scores of 4 or 5. A score of 3 will be considered for credit depending upon the exam taken.

International Baccalaureate Program Students who score a 4, 5, 6, or 7 on the Advanced Level Examinations of the International Baccalaureate Program may receive credit equal to the credit offered for equivalent introductory courses at Northwestern.

Correspondence/Internet course work Students completing course work by means of correspondence or the Internet will be granted credit for courses with grades of C or higher. The allocation of credits is determined by the registrar on the basis of the transcripts and course descriptions. See the section on admission of transfer students.

Admission of transfer students

Students who have satisfactorily completed academic courses at other accredited institutions may apply to Northwestern College as transfer students by sending to the admissions office: an application for admission, an official college transcript from each college or university attended, a high school transcript, and ACT or SAT scores. Transfer students are admitted based on their college work to date. To be accepted and to begin course work, transfer students must be in good standing and must have a 2.25 or higher cumulative GPA on a 4.00 scale (or equivalent) at the institution from which they are transferring. If they are considered in good standing but do not have a 2.25 GPA on a 4.00 scale, they may be accepted conditionally. Conditional acceptance may require, among other things, a contract approved by the director of academic support to include developmental courses or workshops and a limit of 13 credits for the first semester in attendance.

The allocation of transfer credit toward academic requirements at Northwestern is determined by the registrar on the basis of transcripts and course descriptions. If necessary, the registrar will consult with the appropriate department chairperson for the transfer of credits in the student's major.

Students transferring to Northwestern College from TRACS (Transnational Association of Christian Colleges & Schools) accredited institutions may receive full or partial acceptance of completed coursework upon review by the registrar and department chair in the appropriate discipline for which credits apply.

Northwestern College will accept credits, not grades, from regionally accredited institutions. Transfer grades will not be calculated into the Northwestern grade point average. Northwestern grants transfer credits for courses with grades of C or higher. Credits for vocational/technical courses or remedial courses numbered below 100 will not be accepted.

Students who transfer to Northwestern with an A.A. degree from a regionally accredited college have fewer general education requirements to fulfill. See the general education section of this catalog for the requirements for transfer students with earned degrees. (Note: Northwestern College will accept online associate or baccalaureate degrees and accompanying credits from regionally accredited colleges or universities.)

Students transferring to Northwestern College from a non-regionally accredited institution, but one that has been accredited by the Association for Biblical Higher Education, may receive provisional credit from the transfer institution. An evaluation by the registrar's office, in conjunction with the appropriate academic departments, will determine how many credits, if any, may transfer in as provisional. The provisional transfer credit then becomes official transfer credit upon successful completion of two semesters at Northwestern College. This is acquired by the student enrolling in 12 or more credit hours each semester and achieving a cumulative grade point average of 2.00 each respective semester.

In order to be eligible for graduation, students who transfer 30 or more credits to Northwestern must complete the residence requirement by taking their last 30 credits at Northwestern.

Transfer student documentation policy

In addition to an application for admission, the following official documents are required for transfer students and those pursuing education endorsements or other certifications (note: there are certain endorsements and certifications for which additional documentation is not required for admission). This is based upon college coursework completed at the time of application:

Transfer Credits-Documentation Requirements

Fewer than 55 transferable credits: Official college and high school transcripts, ACT/SAT test results are desired

55 or greater transferable credits or a completed degree: Official college transcripts

Note: Students who wish to participate in NWC intercollegiate athletics may be required to furnish ACT or SAT scores to comply with NAIA eligibility requirements. An application for admission will not be considered until the most recent college transcript (showing a minimum of one full-time semester) has been received.

Students transferring to Northwestern College with an earned degree from a regionally accredited institution are not required to submit a high school transcript and ACT/SAT scores.

Admission of international students

This school is authorized under Federal law to enroll nonimmigrant students.

All international students seeking admission to Northwestern College must submit an international student application for admission, a declaration of finances, appropriate school transcripts (in English), and a report of either ACT/SAT or an English proficiency test (TOEFL or IELTS) score, or both (SAT/ACT scores are very helpful in qualifying for academic honors scholarships).. Completed health forms and a deposit are also required following notification of admission.

For those students whose native language is not English, a report of an appropriate English proficiency test is required. Northwestern will accept TOEFL or IELTS (TOEIC is also accepted with recommendation from sister institutions). These scores help to determine which program path will be the best suited to the applicant's level of English proficiency: 1) Full Degree Admit, 2) ESL + Degree Admission - assuring admission to the degree program, but requiring some initial ESL work provided by the college, with credits counting toward degree achievement, or 3) ESL Certificate - limiting admission to one year of ESL study only. Exemptions to the English proficiency test requirement may be made on a case-by-case basis.

	TOEFL (iBT)	IELTS
Full Degree Admit	79	6.5
ESL + Degree Admit	61	5.5
ESL Certificate Only Admit	32	3.5

In addition, all international students are required to take an English Placement Exam before registering for courses. Based on the exam results, the international student will be required to enroll in relevant ESL courses, as determined by the student's academic adviser. (See the ESL section, under modern foreign languages, for a complete listing of available ESL courses.)

Integrative General Education (IGE)

Introduction

At Northwestern, integrative learning is our educational vision for all students. Integrative General Education embodies the goals of the college's *Vision for Learning*: that graduates will trust, love, and worship God, engage ideas, connect knowledge and experience, and respond to God's call.

By encouraging connections across courses, time, communities and learning environments, integrative learning reflects an interconnected view of education. Above all, at Northwestern College, integrative learning means the integration of faith and learning. Integrative learning encourages students to connect knowledge gained from many academic disciplines, engage this knowledge in dialogue with biblical and theological understanding, and apply their knowledge and understanding in a personal sense of calling.

IGE Goals

1. Integrate Learning

The overarching goals of IGE are to:

- Integrate faith and learning
- Connect knowledge across disciplines
- Connect knowledge to life outside the academy

2. Seek Knowledge

Students will discover the knowledge, tools, and traditions that motivate disciplinary work. In particular, students will:

- Examine the major themes of the Bible and expressions of Reformed theology, and survey the theology of the broader Christian tradition
- Explore the mosaic of human cultures, human nature, and what it means to be a person
- Investigate the interdependencies and interconnections of the natural world
- Establish and nurture a sense of intellectual curiosity as a foundation for lifelong learning

3. Demonstrate Skill

Students will practice integrative habits of mind by engaging research questions and issues that demand multidisciplinary thinking, including dialogue with biblical and theological understanding. In particular, students will:

- Demonstrate creative, effective, and sophisticated abilities in listening, speaking, writing, and visual communication
- Develop effective quantitative and qualitative reasoning
- Engage, interpret, and respond to complex texts and problems
- Practice effective use of electronic tools and technology in communication and research

4. Live Responsibly

Students will participate in God's redeeming work by developing a comprehensive view of ethical responsibility that encompasses both individual behavior and responsible action in community. In particular, students will:

- Gain an understanding of the needs of the world and issues of justice, mercy, and humility in keeping with the biblical narrative showing God's concern for the last, the least, and the lost
- Articulate and support personal beliefs and engage in respectful dialogue with those who hold differing beliefs
- Develop a Christian ethic that informs individual choices; a sense of local, national, and global citizenship, and a sense of responsibility to others and to the natural world
- Discern a calling in which individual abilities and passions serve the church and the needs of the world

IGE Requirements

To graduate with a B.A. or B.S., Northwestern students must complete the IGE requirements, which include a common Integrative Learning Core and a menu of courses in ten Integrative Learning Categories.

Integrative Learning Core

- First-Year Seminar: Speaking and Writing in Community (4 credits)
- Christian Story I: Biblical Tradition (4 credits)
- Christian Story II: Theological Tradition (4 credits)
- Senior Seminar: Vocation and Social Responsibility (2-4 credits)

Integrative Learning Categories

- Aesthetic Experience (AE) (3-4 credits)
- Belief and Reason (BR) (4 credits)
- Cross-Cultural Engagement (CC) (3-4 credits)
- Historical Perspectives (HP) (4 credits)
- Language and Culture (LA) (0-9 credits)
- Literary Contexts (LC) (4 credits)
- Physical Wellness (PW) (2-3 credits)
- Quantitative Reasoning (QR) (3-4 credits)
- Science and the Natural World (SN) (4 credits)
- Self and Society (SS) (4 credits)

Total IGE Credits: 45-60

Students with Earned Degrees

Students who transfer to Northwestern with an associate or baccalaureate degree from a regionally accredited college or university must meet the following modified IGE requirements, with these courses to be taken either at the original institution or at Northwestern.

- REL150 or REL250 (4 credits)
- Aesthetic Experience (3-4 credits)
- Choose courses from two different categories:
 - Historical Perspectives (HP)
 - Literary Contexts (LC)
 - Belief and Reason (BR)
- Physical Wellness (2-3 credits)
- Fulfill one category: (3-4 credits)
 - Cross-Cultural Engagement (CC)
 - Language and Culture (LA)
- Quantitative Reasoning (QR) (3-4 credits)
- Science and the Natural World (SN) (4 credits)
- Self and Society (SS) (4 credits)

Total IGE Credits: 31-35

Integrative Learning Core

IGE101 First-Year Seminar: Speaking and Writing in Community

All degree-seeking students are required to take FYS during their first semester at Northwestern. (For 2013-14, exceptions may be granted to students with transferable credits in writing or speech, transfer students, students with earned degrees, and ESL students.) Enrollment in Honors section of FYS (IGE105) is based on placement in the Scholarship Days competition.

FYS initiates a four-year process in which students form a learning community marked by trust in God and each other; explore some of life's most profound, enduring questions by grappling with provocative texts; employ the tools of information literacy in pursuing answers; and develop effective practices of reading, writing, and speaking.

After completing the First-Year Seminar, students will be able to:

- Articulate the nature of a Christian liberal arts education in the Reformed tradition.
- Engage a broad range of ideas through interdisciplinary writing and conversation.
- Write effectively to inform, persuade, and delight a particular audience.
- Speak effectively to inform, persuade, and delight a particular audience.

IGE101L Writing Studio

IGE101L provides additional writing instruction and feedback for students taking IGE101. The FYS Writing Studio engages students in essential practices of college writing through mini-lessons and workshop activities.

Students with an English ACT of 19 or below (Verbal/Critical Reading ACT below 470) are required to take IGE101L in the same semester as IGE101.

REL150 Christian Story I: Biblical Tradition

Through Christian Story I, students learn skills and biblical content that prepare them for a lifetime of critical thinking and faithful living from a biblical-theological perspective. Students should complete this course by the end of their second semester.

After completing Christian Story I, students will:

- **Know and understand the Biblical Story** in relation to (a) God and key historical characters, places, and events from the biblical world; (b) the literary contexts of the biblical writings; and (c) the thematic development of God's story with Israel and the church, through the unfolding of the covenants and their implications for worship, holiness, justice, wisdom, and the kingdom of God.
- **Think critically about and appreciate the Biblical Message** through an examination of (a) the significance of the biblical canon in terms of the historical process by which the Bible developed and became authoritative; (b) the contextual nature of the Bible's historical and literary "worlds" behind, within, and in front of the text; (c) the scholarly methods and tools that strengthen authentic study of the Bible; and (d) the contribution of the experiences of faith communities in responding to God's revelation in Jesus Christ.
- **Respond to God through Biblical Application** as (a) individuals in a manner that promotes Christian virtues such as love, justice, peace, and truth; (b) members of a learning community studying scripture together; and (c) the church empowered by the Spirit to be the presence of Christ in the world.

REL250 Christian Story II: Theological Tradition

Through Christian Story II, students learn skills and theological content that prepare them for a lifetime of critical thinking and faithful living from a biblical-theological perspective. Students should complete this course by the end of their fourth semester.

After completing Christian Story II, students will:

- Know and understand Christian theology in relation to (a) God, the people of God and the redemptive gospel of Jesus Christ; (b) the traditions, councils, and theologians; (c) the cultural contexts of theological reflection from the first century until now; and (d) the mission and growth of the Church as the people of God since the apostolic era.
- Think critically about and appreciate the content and context of Christian theology through an examination of (a) the significance of Christian theology in terms of the historical process by which it developed within the Church and culture; (b) the nature of Christian theology's historical, social, economic context; (c) the scholarly methods and tools that strengthen authentic study of theology; and (d) the contribution of Christian communities and experience in responding to God's revelation in Jesus Christ.

- Respond to God through theological application as (a) individuals in a manner that responds in faith to the gospel and promotes Christian virtues such as love, justice, peace, and truth; (c) the church empowered by the Spirit for mission and witness to the gospel of Christ in the world.

Senior Seminar: Vocation and Social Responsibility

The Senior Seminar assists students in the integration of faith and learning, vocational and social responsibility as they prepare for life outside academia. All students are required to complete a Senior Seminar in their last three semesters prior to graduation.

The Senior Seminar, which is still under development, may be taught as a capstone to a major, or it may be interdisciplinary.

Integrative Learning Categories

No course may count toward meeting more than one IGE requirement.

Aesthetic Experience (AE)

The following courses fulfill the Aesthetic Experience category requirement:

- ART 105 - Introduction to Studio
- ART 120 - Art History Survey, Prehistoric Through Medieval
- ART 122 - Art History Survey, Renaissance Through Early 20th Century
- ENG 238 - Literature and Film
- MUS 113 - Exploring Music
- MUS 115 - Music of the Church
- MUS 116 - Jazz Exploration and Understanding
- MUS 318 - History of Music II
- THE 113 - Theatre as a Fine Art
- THE 360 - Film Aesthetics and Criticism

Note:

The Aesthetic Experience requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **AE** and fulfill the following requirements.

After completing the Aesthetic Experience (**AE**) requirement, students will be able to:

- Engage works of visual or performing art using their senses and intellect.
- Use appropriate tools and vocabulary to respond critically to works of art.
- Advocate for the value of the arts in society.
- Reflect on their experience of artistic creation.
- Express a thoughtful Christian perspective on the arts.
- Draw connections between divine and human creation.

Belief and Reason (BR)

The following courses fulfill the Belief and Reason category requirement:

- PHI 200 - Introduction to Ethics
- PHI 204 - Mind, Knowledge and Reality
- PHI 208 - Reason and Christian Faith
- PHI 210x - Introduction to Political Philosophy

- PHI 214 - Contemporary Moral Issues
- PHI 216 - Philosophy Through Film and Fiction
- PHI 219 - Philosophy and Science Fiction
- PHI 221 - Philosophy of Law
- PHI 225 - Ancient Greek Philosophy
- PHI 226 - Medieval Philosophy
- PHI 227 - Modern Philosophy
- PHI 229 - Twentieth-Century Philosophy
- PHI 238 - Philosophy of the Arts
- PHI 240 - Minds and Machines
- PHI 244 - C.S. Lewis and the Inklings

Note:

The Belief and Reason requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **BR** and fulfill the following requirements.

After completing the Believe and Reason (**BR**) requirement, students will be able to:

- Think critically and creatively as they listen, read, and write.
- Use the tools of logic to recognize, evaluate, and construct arguments both for and against a position.
- Participate knowledgeably in ongoing conversations about significant philosophical questions.
- Reflect on their own beliefs and practices with humility and intellectual honesty and examine the beliefs and practices of others with care and charity.
- Use the resources of the Christian tradition to construct a coherent and plausible account of God, the world, and their place in it.

Cross-Cultural Engagement (CC)

The following courses fulfill the Cross-Cultural Engagement category requirement:

- ENG 225 - Literature of the Developing World
- ENG 386 - The Other America
- GEN 313 - Area Studies
- GEN 350 - Topics in Cross-Cultural Studies
- GEN 352 - NWC Romania Semester
- GEN 354 - Oman Semester
- HIS 230 - Issues in Cross-Cultural History: China
- HIS 230 - Issues in Cross-Cultural History: Islamic Civilization
- HIS 230 - Issues in Cross-Cultural History: Latin America
- HIS 317x - American Indian Societies and Cultures
- KIN 360 - Sport in Societies
- PSC 235 - Comparative Politics

- PSC 260 - Human Geography
- REL 390 - World Religions
- SOC 290 - Cultural Anthropology
- SOC 304 - Ethnicity, Power and Identity
- SOC 317x - American Indian Societies and Cultures
- an approved off-campus, residential course involving immersion in a different culture

Note:

International students are required to take ESL101, Introduction to American Culture.

The Cross-Cultural Engagement requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **CC** and fulfill the following requirements.

The category objectives for this category are still under development.

Historical Perspectives (HP)

The current options for meeting the Historical Perspectives requirement are:

- HIS 120HP - Historical Perspectives

Note:

The **HP** requirement may also be met by new IGE courses as they become available. Options will vary by semester and instructor. Approved courses in this category will bear the course suffix **HP** and fulfill the following requirements.

After completing the Historical Perspectives (**HP**) requirement, students will be able to:

- Describe how historical context shapes events and our understanding of events.
- Evaluate the nature and reliability of historical evidence.
- Develop a thesis-based argument using properly cited evidence.
- Demonstrate familiarity with a body of historical knowledge.
- Articulate how faith obliges Christians to pursue historical truth while acknowledging preconceptions, ideologies, and myths.
- Describe an approach to history based on the belief that God acted through the incarnation to redeem people made in God's image.

Language and Culture (LA)

Students have three options for fulfilling the Language and Culture category requirement:

OPTION 1: Achieve 201 proficiency in a modern foreign language:

- GER 201 - Intermediate German Language and Culture
- SPA 201 - Intermediate Spanish Language and Culture

OPTION 2: Achieve 102 proficiency in an ancient foreign language:

- GRE 102 - Elementary Biblical Greek and Culture
- HEB 102 - Elementary Biblical Hebrew and Culture
- LAT 102 - Elementary Latin II

OPTION 3: Participate in an IGEC-approved semester-long immersion experience in a non-English-speaking country.

Notes:

The language placement exam is used to determine initial placement into a modern foreign language sequence **prior** to taking language courses at Northwestern College. Once a student is in the language sequence, the student must complete the 201-level course in that language to meet the general education language requirement. A student may repeat the placement exam prior to beginning the language sequence, with the highest score used for placement. Once a student is in the language sequence, the language placement test cannot be used to meet the general education requirement.

Students who claim proficiency at a 201-level in a modern foreign language not taught at Northwestern College may take an appropriate standardized placement test to determine if the student has the level of proficiency needed for exemption from the foreign language requirement. If 201-proficiency is not indicated by the exam, the student may meet the requirement by taking and transferring credits from a college or university offering that language.

Exception: Students who are non-native speakers of English have no additional language requirement.

The Language and Culture requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **LA** and fulfill the following requirements.

After completing the Language and Culture (**LA**) requirement, students will:

- Have achieved low intermediate skills in another language
- Have the confidence to use their non-native language skills beyond the classroom walls.
- Be able to draw on their non-native language skills to bridge cultural differences.
- Have an attitude of humility and openness to being blessed by the linguistic and cultural other.
- Be able to articulate some ways that cultural differences are embedded in language.
- Have developed a personal view of the relationship between Christian faith and language study.

Literary Contexts (LC)

The current options for meeting the Literary Contexts requirement are:

- ENG 250LC - Literary Imaginations

Note:

This requirement may also be met by new IGE courses as they become available. Options will vary by instructor and semester. Approved courses in this category will bear the course suffix **LC** and fulfill the following requirements.

After completing the Literary Contexts (**LC**) requirement, students will be able to:

- Imagine other lives, times, and places by reading a variety of texts.
- Empathize with characters who have diverse stories and perspectives.
- Analyze different genres of literature using the tools of literary study.
- Craft a coherent essay with a clear thesis and careful textual analysis.
- Articulate ways that literature speaks to and informs their own lives.
- Express delight in God through the beauty of language and literary texts.
- Witness God's presence in the world through literature.

Physical Wellness (PW)

Students have two options for fulfilling the Physical Wellness category requirement:

Option 1:

- KIN 101 - Concepts of Physical Fitness

Option 2:

- NUR 280 - Lifespan Health Assessment and
- NUR 290 - Promoting Shalom with Older Adults

Note:

The Physical Wellness requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **PW** and fulfill the following requirements.

After completing the Physical Wellness (**PW**) requirement, students will be able to:

- Articulate a Christian perspective on stewardship of the human body.
- Describe the integrative role of physical wellness in human flourishing.
- Implement a personal program of physical exercise.
- Address lifestyle imbalances through nutrition, stress management, and physical activity.
- Participate knowledgeably in a physical activity.

Quantitative Reasoning (QR)

The following existing courses fulfill the Quantitative Reasoning category requirement:

- CSC 171 - Computer Science I
- MAT 105 - Topics in Contemporary Mathematics
- MAT 107 - Mathematical Reasoning for Elementary Teachers
- MAT 109 - College Algebra
- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I
- MAT 116 - Statistics for the Natural and Social Sciences
- MAT 117 - Applied Statistics for Management
- MAT 208 - Biostatistics
- PHI 202 - Logic

Note:

Students with Math ACT 19 or below (SAT 460 or below) or no ACT or SAT math score must pass MAT090, Basic Algebra (C- or better) or the mathematics department placement exam (70% or better) in order to take a **QR** course at Northwestern College. Additional prerequisite requirements apply to some mathematics courses.

The Quantitative Reasoning requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **QR** and fulfill the following requirements.

After completing the Quantitative Reasoning (**QR**) requirement, students will be able to:

- Interpret and draw conclusions from information presented in formulas, tables, or graphs.

- Form and evaluate arguments supported by numerical or symbolic reasoning
- Use quantitative problem-solving skills to pursue both routine and creative approaches to real-world problems.
- Articulate how mathematical patterns reveal the beauty and power inherent in God's creation.

Science and the Natural World (SN)

The following laboratory science courses fulfill the Science and the Natural World category requirement:

- BIO 101 - Introduction to Environmental Science
- BIO 102 - Human Anatomy and Physiology
- BIO 110 - Introduction to Life Science
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- CHE 101 - College Chemistry
- CHE 105 - Topics in Chemistry
- CHE 111 - General Chemistry
- PHY 107 - The Physics of Everyday Life
- PHY 111 - General Physics I
- PHY 211 - Classical Physics I

Note:

The Science and the Natural World requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **SN** and fulfill the following requirements.

After completing the Science and the Natural World (**SN**) requirement, students will be able to:

- Demonstrate foundational scientific understanding of basic principles, structures, and processes of the natural world.
- Apply methods of scientific inquiry to the natural world.
- Evaluate the reliability of scientific practices and information.
- Understand and appreciate the interconnectedness in nature.
- Articulate how scientific reasoning and an understanding of the natural world inform responsible living.
- Articulate connections between God's natural and scriptural revelations.

Self and Society (SS)

The following courses fulfill the Self and Society category requirement:

- ECO 101 - Survey of Economics
- PSC 101 - American National Government
- PSC 105 - Political Ideologies
- PSY 111 - General Psychology
- PSY 221 - Developmental Psychology: Childhood
- SOC 101 - Principles of Sociology
- SOC 290 - Cultural Anthropology

Note:

The Self and Society requirement may also be met by new IGE courses as they become available. Approved courses in this category will bear the suffix **SS** and fulfill the following requirements.

After completing the Self and Society (**SS**) requirement, students will be able to:

- Investigate the causes and consequences of individual or collective human action.
- Explain some of the major forces that shape the diversity of human experience
- Articulate ways in which systematic study of humans informs their own views and actions
- Articulate some personal and communal implications of being made in the image of God.
- Describe ways that Christian thought and the social sciences shed light on each other.

Departments

Art

www.nwciowa.edu/art

The B.A. degree in art is designed to provide a strong foundation in studio art and art history. The liberal arts student with a B.A. in art will be qualified upon graduation to seek a vocation in art education, the broad field of graphic design, or to seek admittance to a graduate program in art studio, art history or art therapy. Since our emphasis is on individual creative thinking and activity, the art graduate will be well prepared to deal successfully with a rapidly changing society in the future.

The art major and minor programs allow students to explore their individual ideas, feelings and approaches to life in studio courses such as drawing, printmaking, painting, ceramics, design, computer design sculpture and photography. The newly constructed Thea G. Korver Visual Arts Center has fourteen well-equipped studios in which art is made in a variety of media and processes including a fully equipped graphic design lab, and sculpture and ceramic studios. The intaglio printmaking program has some of the better equipped studios of any small college department in the Midwest. Several thousand art history slides, videos, etc. are part of the college's audio-visual collection. The art gallery features monthly exhibitions of works by student and professional artists. The visiting artist program allows students to work with professional artists who often conduct workshops and seminars.

Art Major

Requirements:

- ART 120 - Art History Survey, Prehistoric Through Medieval
- ART 122 - Art History Survey, Renaissance Through Early 20th Century
- ART 206 - Drawing
- ART 215 - Ceramics
- ART 217 - Sculpture
- ART 242 - Printmaking
- ART 244 - Painting
- ART 331 - Art Since 1940

Choose one course:

- ART 307 - Advanced Drawing
- ART 315 - Advanced Ceramics
- ART 317 - Advanced Sculpture
- ART 342 - Advanced Printmaking
- ART 344 - Advanced Painting

Total credits required: 36

Notes:

A portfolio review by the art faculty is required of art majors in their junior and senior years. During the senior year an art major is required to present a senior exhibition in partial fulfillment of their B.A. in art.

An art major can receive a teaching endorsement in elementary education and secondary education. Students must also complete the education requirements. See education department listing for requirements.

Studio courses meet for twice the length of time as non-studio courses. Art history courses (ART120, 122 and 331) meet for the length of time as other academic courses.

Art Major/Graphic Design Option

Requirements:

- ART 122 - Art History Survey, Renaissance Through Early 20th Century
- ART 206 - Drawing
- ART 215 - Ceramics
- ART 217 - Sculpture
- ART 220 - Graphic Design I
- ART 242 - Printmaking
- ART 244 - Painting
- ART 320 - Graphic Design II
- ART 331 - Art Since 1940

Cognate requirements:

- BUS 200 - Principles of Marketing
- COM 101x - Mass Media and Society
- COM 263 - Layout and Design
- COM 315 - Writing and Design for the Web

Total credits required: 49

Notes:

A portfolio review by the art faculty is required of art majors in their junior and senior years. During the senior year an art major is required to present a senior exhibition in partial fulfillment of their B.A. in art.

An art major can receive a teaching endorsement in elementary education and secondary education. Students must also complete the education requirements. See education department listing for requirements.

Studio courses meet for twice the length of time as non-studio courses. Art history courses (ART120, 122 and 331) meet for the length of time as other academic courses.

Art Minor

(Satisfies state secondary teaching endorsement requirements in art. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- ART 206 - Drawing
- ART 215 - Ceramics
- ART 217 - Sculpture
- ART 242 - Printmaking
- ART 244 - Painting

Choose one course:

- ART 120 - Art History Survey, Prehistoric Through Medieval
- ART 122 - Art History Survey, Renaissance Through Early 20th Century

Total credits required: 24

Arts Administration Minor

The Arts Administration Minor requires students to major in a fine arts program (Art, Music or Theatre). This minor builds on a student's existing artistic base earned from their fine arts major. It is intended to equip students with the direction and practical skills needed to help art flourish in the larger culture. Possible applications might include entry-level administrative positions in theatre companies, art galleries, symphonies and other community-based arts organizations.

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 310 - Non-Profit and Governmental Accounting
- BUS 200 - Principles of Marketing
- COM 185 - Media Writing
- COM 230 - Principles of Public Relations
- COM 263 - Layout and Design
- CSC 110 - Advanced Spreadsheets

Internship: 4

- ART 417 - Internship
- MUS 417 - Internship
- THE 417 - Internship

Choose one course: 3

- BUS 305 - Organizational Behavior and Theory
- COM 332 - Social Foundations of Advertising

Total credits required: 27

Note:

Students must also complete a major in Art, Music or Theatre. The internship must be for a minimum of 4 credits.

Biology

www.nwciowa.edu/biology

The biology majors provide a broad background in the life sciences equipping students with knowledge and skills to serve God's creation. Required courses introduce the student to the created order of life, and advanced courses permit students to concentrate in areas of particular interest. The biology majors focus on preparing students for careers in ecological science, in medicine and related health professions, in teaching, or to begin graduate or other professional studies in these areas.

Pre-professional programs

Faculty advisers direct a student's program toward completing graduation requirements as well as completing entrance requirements to accredited professional schools of agriculture, chiropractic, dentistry, medicine, mortuary science, nursing, occupational therapy, optometry, pharmacy, physical therapy and veterinary medicine. Being acquainted with pre-professional requirements, the advisers fit the student's studies to the requirements of these schools. (See the pre-professional programs section of this catalog.)

Biology Ecological Science Major

Requirements:

- AuSable or biology electives: 4 credits
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology

Choose one course:

- AUS 361 - Field Natural History
- BIO 205 - Ecology

Choose one course:

- BIO 202 - Genetics
- BIO 327 - Biochemistry: Molecular Genetics

Choose one course:

- AUS 311 - Field Botany
- AUS 315 - Woody Plants
- BIO 309 - Plant Taxonomy

Choose one course:

- BIO 280 - Vertebrate Zoology
- BIO 312 - Invertebrate Zoology

Choose eight credits:

- BIO 329 - Stewardship Ecology
- BIO 330 - Topics in Ecology

Cognate requirements:

- MAT 116 - Statistics for the Natural and Social Sciences

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits required: 47

Note:

All Biology Ecological Science majors are required to take at least 12 credits of 300-level (or above) biology courses, 8 credits of which must have a laboratory.

Field experience:

All Biology Ecological Science majors are required to complete at least one field experience. This requirement can be met in one of two ways:

Option 1: Completion of BIO329 or a pre-approved AuSable or other experiential ecology course.

Option 2: Complete an approved summer field research or professional employment experience. Submission of a form requesting approval of a summer experience must be submitted to the department chair at least 60 days prior to the initiation of the experience. Experiences will not be approved retroactively.

Biology Health Professions Major

Requirements:

- Biology electives: 20 credits
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology

Choose one course:

- BIO 202 - Genetics
- BIO 327 - Biochemistry: Molecular Genetics

Cognate requirements:

- Chemistry, biochemistry or physics electives: 8 credits

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits required: 48

Note:

All Biology Health Professions majors are required to take at least 12 credits of 300-level (or above) biology courses, at least 8 credits of which must have a laboratory.

Biology Major

Requirements:

- AuSable or biology electives: 4 credits
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 203 - Microbiology

Choose one course:

- BIO 202 - Genetics
- BIO 327 - Biochemistry: Molecular Genetics

Choose one course:

- AUS 361 - Field Natural History
- BIO 205 - Ecology
- BIO 329 - Stewardship Ecology

Choose one course:

- AUS 311 - Field Botany
- AUS 315 - Woody Plants
- BIO 309 - Plant Taxonomy

Choose one course:

- AUS 312 - Insect Biology and Ecology
- AUS 322 - Aquatic Biology

- BIO 221 - Human Anatomy
- BIO 280 - Vertebrate Zoology
- BIO 312 - Invertebrate Zoology

Cognate requirements:

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits required: 40

Notes:

All Biology majors are required to take at least 12 credits of 300-level (or above) biology courses, at least 8 of which must have a laboratory.

Students majoring in biology education must also complete the requirements of the secondary education program. See the education department listing for requirements.

Biology Minor

(Satisfies state secondary teaching endorsement requirements in biology. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Biology electives: 8 credits
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 205 - Ecology

Choose one course:

- BIO 202 - Genetics
- BIO 327 - Biochemistry: Molecular Genetics

Total credits required: 24

Alternative Secondary Teaching Endorsement Program in Biology

Requirements:

- Related natural science courses: 14-16 credits*
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 205 - Ecology

Choose one course:

- BIO 202 - Genetics
- BIO 310 - Cell Biology

Total credits required: 30-32

Note:

*Related courses may be taken from chemistry or physics. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in that second area, (in addition to endorsement in biology).

Business and Economics

www.nwciowa.edu/business

Northwestern's business and economics department is committed to a broad program of Integrative General Education as the basis for valid career and life choices. We offer majors in accounting; business administration with options in agri-business, finance, general, human resources, management and marketing; business education; and economics. The department offers minors in accounting, business administration, business education and economics.

Accounting Major

A major in accounting is built upon a liberal arts approach and is recommended for those students who wish to pursue a career in public, private or governmental accounting. As a department, we recommend experience in the field through credited internships.

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- ACC 306 - Cost Accounting
- ACC 307 - Individual Income Tax
- ACC 310 - Non-Profit and Governmental Accounting
- ACC 315 - Intermediate Accounting I
- ACC 316 - Intermediate Accounting II
- ACC 415 - Auditing
- ACC 418 - Advanced Accounting
- ACC 430X - Entity Tax and Law
- BUS 321 - Business Law

Cognate requirements:

- CSC 210 - Accounting Information Systems
- MAT 117 - Applied Statistics for Management

Choose one option:

Option 1:

- CSC 102 - Business Computing
- CSC 110 - Advanced Spreadsheets

Option 2: 4

- CSC 171 - Computer Science I

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I

Total credits required: 50-52

Business Administration Major

Majors in business administration are built upon a strong liberal arts basis and are recommended for those students who are interested in careers in a wide variety of occupations or for students who plan to attend graduate school in business. As a department, we recommend experience in the field through credited internships.

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- BUS 200 - Principles of Marketing
- BUS 218 - Business Ethics
- BUS 250 - Management and Organizational Behavior
- BUS 300 - Principles of Finance *
- BUS 403 - Business Strategy

Cognate requirements:

- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics
- MAT 117 - Applied Statistics for Management

Choose one option:

Option 1:

- CSC 102 - Business Computing
- CSC 110 - Advanced Spreadsheets

Option 2:

- CSC 171 - Computer Science I

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I

Note:

*BUS300 is waived for students who have taken ACC315 and 316

Business administration options:

Choose and complete the requirements of one or two of the following options, with no more than 8 credits of the same course work between options (a maximum of two options will be listed on the student's transcript):

Business administration/agri-business option

- AGR 201 - Animal Science
- AGR 212 - Crop Production
- AGR 301 - Agricultural Marketing
- AGR 302 - Agri-business Management

Business administration/finance option

- BUS 304 - Investments
- BUS 404 - Advanced Corporate Finance
- ECO 301 - Money and Banking

Business administration/general option

Choose 11 credits:

- Accounting, business or economics (must be numbered 300-level or above)

Business administration/human resource option

- BUS 309 - Human Resource Management
- BUS 321 - Business Law
- ECO 302 - Labor Economics

- PSY 230 - Industrial/Organizational Psychology

Business administration/management option

- BUS 323 - Operations Management
- BUS 400 - Entrepreneurship and New Venture Initiation
- ECO 333 - International Economics

Business administration/marketing option

- BUS 325 - Marketing Communications
- BUS 401 - Consumer Behavior
- BUS 405 - Strategic and Managerial Marketing

Total credits required: 47-51

Business Education Major

A major in business education is designed to prepare individuals to teach a variety of business subjects at the secondary school level or to pursue graduate work in business education. Students majoring in business education must also complete the requirements of the secondary education program. (See Education Department listing for requirements)

This major satisfies state teaching endorsement requirements in business.

Required Courses

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- BUS 200 - Principles of Marketing
- BUS 250 - Management and Organizational Behavior
- BUS 321 - Business Law
- BUS 400 - Entrepreneurship and New Venture Initiation
- BUS 401 - Consumer Behavior
- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics

Cognate Requirements:

- CSC 102 - Business Computing
- CSC 110 - Advanced Spreadsheets
- ENG 288 - Writing in the Professions

Total credits required: 39

Economics Major

A major in economics is built upon a strong liberal arts basis and is recommended for those students who are interested in careers in government, business, or who plan to attend graduate school in economics.

Requirements:

- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics
- ECO 314 - Intermediate Macroeconomics
- ECO 315 - Intermediate Microeconomics

Choose three courses:

- ECO 301 - Money and Banking
- ECO 302 - Labor Economics
- ECO 305 - Current Economic Problems
- ECO 333 - International Economics
- ECO 390 - Game Theory

Cognate requirements:

- MAT 117 - Applied Statistics for Management
- MAT 216 - Advanced Statistical Methods

Choose one option:

Option 1:

- CSC 102 - Business Computing
- CSC 110 - Advanced Spreadsheets

Option 2:

- CSC 171 - Computer Science I

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I *

Total credits required: 39-42

Note:

*It is recommended that students who will be going to graduate school take MAT112, Calculus I.

Accounting Minor

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- ACC 306 - Cost Accounting
- ACC 307 - Individual Income Tax
- ACC 315 - Intermediate Accounting I
- ACC 316 - Intermediate Accounting II

Total credits required: 22

Business Administration Minor

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- BUS 200 - Principles of Marketing
- BUS 218 - Business Ethics
- BUS 250 - Management and Organizational Behavior
- BUS 300 - Principles of Finance

Choose one course:

- ECO 101 - Survey of Economics
- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics

Total credits required: 23

Economics Minor

Requirements:

- Economics electives: 4 credits
- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics
- ECO 314 - Intermediate Macroeconomics
- ECO 315 - Intermediate Microeconomics

Total credits required: 20

Alternative Secondary Teaching Endorsement Program in Economics

Requirements:

- Related social science courses: 16-18 credits*
- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics
- ECO 301 - Money and Banking

Choose one course:

- ECO 314 - Intermediate Macroeconomics
- ECO 315 - Intermediate Microeconomics

Total credits required: 32-34

Note:

*Related courses may be taken from political science, sociology, psychology, world history or American history. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in the second area (in addition to endorsement in economics).

Chemistry

www.nwciowa.edu/chemistry

Nobel Laureate Glenn Seaborg stated, "Middle Ages man could not ignore the church, nor Renaissance man ignore the arts, nor could Eighteenth Century man ignore political thought. Likewise, modern man cannot ignore science." Advances in chemistry have contributed to the extension of our knowledge of God's creation — both his physical universe and we his people. A liberal arts major in chemistry contributes not only to the expansion of the student's mind, but also provides the student with a broad spectrum of career opportunities. During the past decade nearly one-half of Northwestern's chemistry majors have attended graduate or professional schools in chemistry, biochemistry or medicine, while the remainder have pursued careers in business, industry or education.

Chemistry has two principal goals: to determine and understand the properties of matter and its transformations (pure chemistry),

and to develop processes to transform matter for useful purposes (applied chemistry). Northwestern's chemistry curriculum seeks to provide the student with a rigorous and comprehensive understanding of the fundamentals of modern chemistry.

Chemistry Major

Requirements:

- Chemistry elective: 4 credits
- CHE 211 - Quantitative Analysis
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- CHE 433x - Introductory Physical Chemistry

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry *
- CHE 112 - General Chemistry

Cognate requirements:

- MAT 112 - Calculus I
- MAT 211 - Calculus II
- PHY 211 - Classical Physics I
- PHY 212 - Classical Physics II

Total credits required: 44

Note:

*Recommended option

For those students intending to pursue professional careers in chemistry

The following courses are strongly recommended:

- CHE 315 - Instrumental Analysis
- CHE 326x - Biochemistry: Proteins and Metabolism
- CHE 436x - Intermediate Physical Chemistry
- CSC 151 - Office Application Programming
- CSC 171 - Computer Science I
- MAT 212 - Calculus III
- MAT 312 - Differential Equations

Chemistry Minor

(Satisfies state secondary teaching endorsement requirements in chemistry. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Chemistry elective: 4 credits
- CHE 211 - Quantitative Analysis
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits required: 24

Alternative Secondary Teaching Endorsement Program in Chemistry

Requirements:

- Related natural science courses: 14-16 credits*
- CHE 211 - Quantitative Analysis
- CHE 321 - Organic Chemistry

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits required: 30-32

Note:

*Related courses may be taken from biology or physics. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in that second area, (in addition to endorsement in chemistry).

Communications

www.nwciowa.edu/communications

The communications department offers two majors, each focused on an area of practice within communications: journalism and public relations. Each major requires an internship--and excellent internship opportunities for each of these are available in Los Angeles, Washington D.C., and Chicago. We also offer minors in these areas along with a multimedia minor in which students can emphasize either film/video or graphic arts.

The courses we offer seek to develop Christian perspectives on the media, on the ways media serve and might serve their communities, and on the roles our graduates will play within media organizations. These courses are complemented by the leadership and production experience students gain as members of GoComm, a departmental production group serving the broader community, and the Beacon, the college newspaper.

Journalism Major

Requirements:

- COM 101x - Mass Media and Society
- COM 217 - Communication Practicum in Print Media
- COM 225 - Media Law and Ethics
- COM 261 - Feature Writing
- COM 340 - News Writing and Editing
- COM 400 - Advanced Journalism
- COM 417 - Internship

Choose six credits:

- ART 220 - Graphic Design I
- ART 265 - Photography II
- COM 202 - Video Production
- COM 263 - Layout and Design
- COM 310 - Advanced Topics in Communications ***
- COM 315 - Writing and Design for the Web
- COM 330 - Multiplatform Communications

Cognate Requirements:

- ART 164 - Photography I
- ECO 101 - Survey of Economics
- PSC 105 - Political Ideologies
- PSC 201 - State and Local Government
- SOC 290 - Cultural Anthropology

Choose six credits:

- ENG 221 - Responding to Writing
- ENG 290 - The Art of the Essay
- ENG 379 - English Twentieth-Century Literature
- ENG 380 - Special Topics in Writing
- ENG 386 - The Other America
- ENG 390 - Introduction to Publishing
- ENG 395 - Advanced Publishing
- GEN 312 - Reporting in Washington **
- GEN 312 - Foundations for Media Involvement **
- GEN 312 - Washington, News & Public **

Total credits required: 49-53

Notes:

*COM217 is a 1 credit course to be taken twice.

**Requires acceptance into the CCCU Washington journalism semester program.

***COM310 must be a topic in journalism.

Internships range from 2-12 credits. The maximum credits applied to the major are noted under the 417 course designation.

Students choosing the GEN312 course option must first be accepted into the CCCU Washington journalism semester program. The Washington journalism semester program is an advanced, experiential semester on Capitol Hill and consists of 3 seminar courses (Foundations for Media Involvement - 4 credits; Reporting in Washington - 3 credits; and Washington, News, and Public Discourse - 3 credits) and a 6 credit internship. For more details on the program, contact the Communications department.

Public Relations Major

Requirements:

- COM 101x - Mass Media and Society
- COM 185 - Media Writing
- COM 215 - Practicum in Public Relations *
- COM 225 - Media Law and Ethics
- COM 230 - Principles of Public Relations
- COM 312 - Advanced Public Relations: Strategy & Implementation
- COM 332 - Social Foundations of Advertising
- COM 355 - Organizational Communication
- COM 417 - Internship

Choose eleven credits:

Choose at least one course:

- COM 261 - Feature Writing
- COM 310 - Advanced Topics in Communications *
- COM 330 - Multiplatform Communications
- COM 340 - News Writing and Editing
- COM 400 - Advanced Journalism
- ENG 235 - Introduction to Rhetorical Studies
- ENG 288 - Writing in the Professions
- ENG 297 - The Rhetoric of Persuasion

Choose at least one course:

- ART 164 - Photography I
- ART 220 - Graphic Design I
- ART 320 - Graphic Design II
- COM 263 - Layout and Design
- COM 315 - Writing and Design for the Web

Cognate Requirements:

- BUS 200 - Principles of Marketing
- BUS 250 - Management and Organizational Behavior

Choose one course:

- BUS 309 - Human Resource Management
- BUS 401 - Consumer Behavior
- ECO 101 - Survey of Economics

Total credits required: 52

Notes:

*COM310 must be a topic in Public Relations. COM215 is a 1 credit course to be taken twice.

Internships range from 2-12 credits. The maximum credits applied to the major are noted under the 417 course designation.

Journalism Minor

Requirements:

- COM 101x - Mass Media and Society
- COM 185 - Media Writing
- COM 217 - Communication Practicum in Print Media *
- COM 225 - Media Law and Ethics
- COM 340 - News Writing and Editing

Choose one course:

- COM 261 - Feature Writing
- COM 263 - Layout and Design

Cognate Requirement:

- ART 164 - Photography I

Total credits required: 20-21

Note:

*COM217 is a 1 credit course to be taken twice.

Multimedia Minor

Requirements:

- COM 101x - Mass Media and Society
- COM 185 - Media Writing
- COM 225 - Media Law and Ethics

Choose two credits:

- COM 215 - Practicum in Public Relations
- COM 217 - Communication Practicum in Print Media

Choose ten credits:

- ART 164 - Photography I
- ART 220 - Graphic Design I
- ART 230 - Design: Theory and Practice
- ART 265 - Photography II
- ART 320 - Graphic Design II
- COM 202 - Video Production
- COM 263 - Layout and Design
- COM 315 - Writing and Design for the Web
- COM 330 - Multiplatform Communications
- ENG 288 - Writing in the Professions

Choose one course:

- COM 230 - Principles of Public Relations
- COM 332 - Social Foundations of Advertising
- THE 360 - Film Aesthetics and Criticism

Total credits required: 25-26

Public Relations Minor

Requirements:

- COM 101x - Mass Media and Society
- COM 185 - Media Writing
- COM 225 - Media Law and Ethics
- COM 230 - Principles of Public Relations
- COM 332 - Social Foundations of Advertising

Choose two credits:

- COM 215 - Practicum in Public Relations
- COM 217 - Communication Practicum in Print Media

Choose eight credits:

- ART 220 - Graphic Design I
- COM 261 - Feature Writing
- COM 263 - Layout and Design
- COM 310 - Advanced Topics in Communications *
- COM 315 - Writing and Design for the Web
- COM 330 - Multiplatform Communications
- COM 340 - News Writing and Editing
- COM 355 - Organizational Communication
- ENG 235 - Introduction to Rhetorical Studies
- ENG 288 - Writing in the Professions
- ENG 297 - The Rhetoric of Persuasion

Total credits required: 26

Note:

*COM310 Must be a topic in Public Relations

Computer Science

www.nwciowa.edu/compsci

Computer science continues to be a dynamically growing discipline. Today's treasured techniques quickly become tomorrow's castoffs. Therefore, Northwestern's computer science curriculum emphasizes the basic fundamentals of the field and hands-on experiences which make use of a collection of state-of-the-art hardware and software systems.

Computer science also continues to be a broadening field affecting more and more areas of life. Therefore, Northwestern's computer science department offers two distinct majors: computer science and computer information systems. The two separate majors give students flexibility and the option to choose the specialization that best fits them.

Computer science is a study of the structure, theory and application of computers and computer programs. It includes the study of algorithms, the representation and organization of information, the management of complexity, and the relationship between computers and their users. Computer science is a mathematical discipline. It utilizes mathematical techniques for abstraction and representation of complex systems. From another perspective, computer science is an engineering discipline concerned about the design and construction of systems in order to solve complex problems.

Computer information systems is the study of the design, implementation and infrastructure of technology in organizations. Students are expected to develop strong analytical and critical thinking skills, professional interpersonal communications and team skills, and a broad perspective on business and development processes. Computer information systems is a mixture of computer technology, programming and development, mathematical thought processes and business experience. The computer information systems student should graduate with the ability to design and implement information technology solutions that enhance the performance of an organization.

Northwestern teaches all aspects of computer science in the context of a Christian liberal arts education. Consequently, the curriculum includes coverage of the historical and societal impact of computers. Students are challenged to consider how their Christianity will impact them in a highly technical discipline. By studying both the technical aspects of computer science and its integration with our Christian faith, a quality, well-balanced curriculum is attained.

Students are encouraged to take internships, which allow them to learn "how it's really done" at the same time that they enjoy a semester in a different environment. Through its memberships in various consortia, Northwestern is able to offer excellent internships in Chicago, Washington, D.C. and elsewhere. Internships in the Orange City area have also been arranged.

Northwestern's computer laboratory includes a wide array of equipment suitable for providing a broad background and for supporting a large variety of activities. A network of workstations and a large collection of associated software are readily accessible to students.

Computer Information Systems Major

Requirements:

- CSC 102 - Business Computing
- CSC 151 - Office Application Programming
- CSC 171 - Computer Science I
- CSC 172 - Computer Science II
- CSC 200 - Principles of Computer Information Systems
- CSC 210 - Accounting Information Systems
- CSC 280 - Enterprise Architecture
- CSC 291 - Database Management Systems
- CSC 300 - Electronic Commerce Development
- CSC 361 - Networking
- CSC 450 - Value Issues in Computing
- CSC 470 - Senior Project

Cognate requirements:

- ACC 215 - Principles of Financial Accounting
- BUS 200 - Principles of Marketing
- ECO 213 - Principles of Microeconomics
- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 117 - Applied Statistics for Management

Total credits required: 51

Computer Science Major

Requirements:

- CSC 171 - Computer Science I
- CSC 172 - Computer Science II
- CSC 270 - Computer Organization
- CSC 351 - Data Structures
- CSC 371 - Operating Systems
- CSC 381 - Programming Languages
- CSC 450 - Value Issues in Computing
- CSC 470 - Senior Project

Choose two courses:

- CSC 291 - Database Management Systems
- CSC 321 - Human-Computer Interaction
- CSC 361 - Networking
- CSC 420 - Special Topics

Cognate requirements:

- MAT 112 - Calculus I

Choose one course:

- MAT 180 - Logic and Discrete Mathematics
- PHI 202 - Logic

Choose one course:

- MAT 211 - Calculus II
- MAT 317 - Linear Algebra

Total credits required: 47-50

Computer Science Minor

Requirements:

- CSC 171 - Computer Science I
- CSC 172 - Computer Science II
- CSC 270 - Computer Organization
- CSC 351 - Data Structures
- CSC 450 - Value Issues in Computing

Choose two courses:

- CSC 291 - Database Management Systems
- CSC 321 - Human-Computer Interaction
- CSC 361 - Networking
- CSC 420 - Special Topics

Total credits required: 26

Analytics Certificate

Requirements:

- CSC 481 - Introduction to Data Analytics
- CSC 482 - Introduction to Text Analytics
- CSC 483 - Introduction to Predictive Analytics
- CSC 491 - Advanced Data Analytics
- CSC 492 - Advanced Text Analytics
- CSC 493 - Advanced Predictive Analytics

Total credits required: 18

Education

www.nwciowa.edu/education

The teacher education program at Northwestern College commits itself to a Christ-centered holistic development of teachers called to serve Christ and society in diverse classroom settings. The model for the program is “Teacher as Servant.” The goal is to serve students in the name of Jesus Christ with the expectation that they, too, will seek to offer themselves in Christian service as they teach others.

In order to serve effectively as teachers, Northwestern College students need a well-formed, whole educational experience. Northwestern emphasizes this wholeness in its liberal arts program by stressing intellectual, physical, spiritual/moral and social/emotional wholeness. Within this context, the teacher education program believes that effective teaching results from foundational knowledge of the profession along with knowledge and skills in learning, teaching and reflection. This body of knowledge and performances, in conjunction with the college’s emphasis on teaching the whole person and developing intercultural competencies, is put into practice in diverse pre-teaching opportunities that students experience in and outside of the P-12 classroom.

The objectives of the professional education unit that reflect the model of “Teacher as Servant” are located in the education department policy manual which may be found at www.nwciowa.edu/education.

The Northwestern College teacher education program is nationally accredited by the National Council for accreditation of Teacher Education (NCATE) and the Iowa Department of Education.

The Northwestern College teacher education department offers the following basic programs leading to licensure:

1. Elementary endorsement
2. Secondary endorsement that also requires an approved major in secondary education
3. Coaching authorization (see kinesiology department for requirements)

Other available specialized programs include:

(all require the completion of the elementary or secondary endorsement)

1. A unified early childhood endorsement (combines special education and early childhood education)
2. An early childhood education endorsement
3. An instructional strategist I elementary endorsement
4. An instructional strategist I secondary endorsement
5. A reading elementary endorsement
6. A middle school endorsement
7. A teaching English as a second language endorsement

Admission and retention in the education program

Every student who plans to complete a program at Northwestern College leading to teacher licensure must make formal application. Application for admission to the program is completed through Livetext and notification should be given to the education office as soon as the student knows he/she wants to become a teacher. Transfer students who are classified as juniors or seniors must make formal application during their first semester in residence.

The following specific requirements must be met by all applicants:

1. A cumulative grade point average of 2.50
2. Basic skills proficiency as demonstrated through passing the scores on Pre-Professional Skills Test (PPST)
3. Completion of the entrance portfolio in Livetext (see education department policy manual for requirements)
4. A written recommendation from the department of the student's major subject field. Elementary education majors will be interviewed by a member of the education department.

On the basis of these criteria, the teacher education committee will grant the candidate approval, deferment of approval or disapproval. Before the candidate will be permitted to student teach, the candidate must be admitted into the teacher education program and successfully meet established benchmark performances. However, students may take courses in the education department prior to admission into the program. If admission is deferred, the candidate will be notified of specific knowledge, performances or dispositions that must be satisfactorily demonstrated before being approved for entrance into the program. If the application is disapproved, the candidate will be encouraged to consult with the department chairperson for replanning his/her educational program and major.

A student majoring in elementary education may not enroll in the four restricted courses (EDU 323, 325, 343 and 409) or student teaching until admitted into the teacher education program. A student earning a secondary education endorsement may not enroll in either EDU307 or student teaching until admitted into the program.

The status of a student in the education program is under constant review by the committee. Retention in the program may be revoked if the student's GPA drops below the required 2.50, the student fails to successfully meet established benchmark performances, or any time the committee feels that a student is not maintaining other qualifications for admission. In reviewing the student's status, the committee may ask that his/her adviser sit in on the discussions.

In the academic year prior to the year in which a student plans to do his/her student teaching, he/ she must notify the education office to apply for student teaching and provide information for the placement.

Requirements for admission into the student teaching semester require maintaining a cumulative grade point average of 2.50 and completion of 100 clock hours of pre-student teaching field experience in school settings and 100 hours of multicultural experience. Students will also successfully perform all pre-student teaching performance benchmarks.

A student admitted to student teaching is expected to make satisfactory progress during the teaching phase of this program. If satisfactory progress is not maintained after the student has had adequate notification and opportunity to meet the standards, a

committee composed of the cooperating teacher, the college supervisor and other members of the teacher education committee will determine whether or not the student will be allowed to complete student teaching and under what conditions.

Students who wish to appeal academic program decisions or the decisions of a faculty member or an academic department concerning their academic progress must submit to the vice president for academic affairs a written appeal of the decision within 30 days following their notification of the decision. The Dean of the Faculty will provide a written acknowledgment of the appeal within seven days. The Dean of the Faculty will investigate the appeal and provide a decision which will be communicated in writing to the student within 15 days of this acknowledgment. A final appeal may then be made to the president, following the same procedures and timetable.

Students are typically placed in area schools for a traditional student teaching experience. A non-traditional student teaching assignment is defined as any placement outside of an approximate 50-mile radius from the Northwestern College campus. Any non-traditional assignment may require the student to assist in providing information for the student teaching coordinator in making the placement. To be eligible for a non-traditional placement the student must meet one of the following criteria:

1. Accepted into the Chicago Semester program
2. Location in a multicultural setting (defined as 33% minority school population) and a minimum of a 3.00 cumulative grade point average
3. A 9th semester student (defined as a minimum of 124 credits or above) and a minimum of 3.00 cumulative grade point average
4. Married with spouse living outside the approximate 50-mile radius from the Northwestern College campus

Requirements for licensure

1. Satisfactory completion of all degree and benchmark performance requirements
2. Minimum cumulative grade point average of 2.50. Secondary education majors (grades 5-12) must also have a minimum of 2.50 in their major.
3. Exit portfolio approval (see education department policy booklet)

Elementary Education Major

Requirements for certification:

Professional/methodology requirements:

- EDU 102 - Foundations of Education
- EDU 202 - Early Field Experience
- EDU 206 - Survey of Exceptional Individuals
- EDU 227 - Instructional Technology
- EDU 228 - Children's Literature
- EDU 304 - Educational Psychology
- EDU 323 - Teaching Mathematics
- EDU 326 - Teaching Reading and Language Arts
- EDU 328 - Teaching Science in the Elementary Classroom
- EDU 329 - Teaching Social Studies in the Elementary Classroom
- EDU 340 - Human Relations
- EDU 343 - Diagnosis and Correction of Reading Problems
- EDU 409 - Philosophy of Education
- EDU 413 - Elementary Student Teaching *

Note:

*If seeking certification in special education, unified early childhood, early childhood or reading, complete 8 credits of student teaching in elementary education and 4-8 credits of student teaching in special education, early childhood or reading. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Cognate requirements:

- ART 235 - Integrating Art for Elementary Classroom Teachers
- KIN 235 - Integrating PE for Elementary Classroom Teachers
- MUS 235 - Integrating Music for Elementary Classroom Teachers
- PSY 221 - Developmental Psychology: Childhood

Content area requirements:

- Biological science course: 4 credits
- Foreign language course or 201-level proficiency: 0-9 credits
- Physical science course: 3-4 credits
- MAT 107 - Mathematical Reasoning for Elementary Teachers
- MAT 127 - Patterns, Functions and Algebra for Elementary Teachers

Choose one course:

- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865
- PSC 101 - American National Government
- PSC 235 - Comparative Politics
- PSC 260 - Human Geography

***Choose one course:**

- Cross-cultural study elective
- Foreign language course
- Math course

Note:

*Students who complete PSC260, Cultural Geography, or PSC235, Comparative Politics, for the content area requirement above have also met the cross-cultural study elective requirement.

Total credits required: 58-86

Early Childhood Education Endorsement

Requirements for certification for preschool through grade 3. (Also requires the completion of the elementary education major.) An online option of the Unified Early Childhood endorsement is available for those who hold or are eligible to hold certification in Elementary Education. Please contact the Education department for details.

Requirements:

- EDU 229 - Introduction to Early Childhood
- EDU 230 - Organization and Administration of Early Childhood Programs
- EDU 314 - Working with Parents
- EDU 319 - Communication and Collaborative Partnerships for Special Educators
- EDU 407 - Early Childhood Student Teaching

Cognate requirements:

- KIN 101 - Concepts of Physical Fitness
- KIN 104 - First Aid

Total credits required: 16-17

Note:

- Requires certification in Infant CPR and First Aid.

Elementary and Secondary Endorsement in Art, Music, Physical Education and Spanish

A student majoring in art, music, physical education or Spanish may acquire elementary and secondary endorsements by completing the following:

1. The art, music, physical education or Spanish major
2. The requirements for the elementary endorsement in art, music, physical education and Spanish
3. The secondary special methods course in your major (ART308, MUS308 (Vocal), MUS309 (Instrumental), KIN318 or LAN308)
4. EDU307, General Methods in Secondary Education
5. EDU416, Vertical Student Teaching. Both the elementary and secondary level of student teaching may be combined within the 12-credit requirement.

Note: Students receiving both the elementary and secondary endorsement need one science course.

Elementary Endorsement in Art, Music, Physical Education and Spanish

(Also requires completion of the art, music, physical education or Spanish major for secondary majors. Elementary education majors may satisfy the requirements of this endorsement by completing the minor in one of the four subject areas above.)

Professional/methodology requirements:

- EDU 102 - Foundations of Education
- EDU 202 - Early Field Experience
- EDU 206 - Survey of Exceptional Individuals
- EDU 227 - Instructional Technology
- EDU 304 - Educational Psychology
- EDU 340 - Human Relations
- EDU 347 - Reading in the Content Area
- EDU 409 - Philosophy of Education
- EDU 413 - Elementary Student Teaching

Choose appropriate course from your major:

- ART 211 - Art for Elementary Education
- KIN 317 - Methods of Elementary Physical Education and Health
- LAN 308 - Methods of Teaching Secondary Foreign Language
- MUS 307 - Teaching Elementary Vocal Music

Cognate requirements:

- Math course: 3-5 credits
- Science courses (must include a biological and either a chemistry or physics course): 7-8 credits
- PSY 221 - Developmental Psychology: Childhood

Total credits required: 36-52

Elementary Endorsement in English

(For elementary education majors who want a subject specialty in English)
Requires a minimum of 12 credits of elementary student teaching (EDU413).

Professional/methodology requirements:

- EDU 345 - Language Learning and Reading Disabilities

- EDU 347 - Reading in the Content Area

Cognate requirements:

- ENG 184 - College Writing *
- ENG 277 - Teaching Literature to Adolescents
- ENG 290 - The Art of the Essay
- THE 112 - Performance Studies
- THE 360 - Film Aesthetics and Criticism

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II

Total credits required: 24

Note:

*Students with an English ACT score of 30 or above may substitute one advanced writing course (chosen from ENG288, 290, 294, 296, 297 or 380).

Elementary Endorsement in History

(For elementary education majors who want a subject specialty in history)
Requires a minimum of 12 credits of elementary student teaching (EDU413).

American history courses required:

- American history electives: 2 credits
- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865

World history courses required:

- European/world history electives: 5 credits
- American and European/world history electives: 5 credits
- HIS 230 - Issues in Cross-cultural History

Total credits required: 24

Elementary Endorsement in Mathematics

(For elementary education majors who want a subject specialty in mathematics)
Requires a minimum of 12 credits of elementary student teaching (EDU413).

Requirements:

- CSC 171 - Computer Science I
- MAT 112 - Calculus I
- MAT 180 - Logic and Discrete Mathematics
- MAT 211 - Calculus II
- MAT 317 - Linear Algebra
- MAT 411 - College Geometry

Choose one course:

- MAT 116 - Statistics for the Natural and Social Sciences
- MAT 117 - Applied Statistics for Management

Total credits required: 24

Elementary Endorsement in Science

(For elementary education majors who want a subject specialty in science)
Requires a minimum of 12 credits of elementary student teaching (EDU413).

Requirements:

- BIO 101 - Introduction to Environmental Science
- BIO 102 - Human Anatomy and Physiology
- BIO 205 - Ecology

Choose three courses:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Total credits required: 24

Elementary Endorsement in Social Studies

(For elementary education majors who want a subject specialty in social studies)
Requires a minimum of 12 credits of elementary student teaching (EDU413).

Requirements:

- HIS 230 - Issues in Cross-cultural History
- PSC 101 - American National Government
- PSC 260 - Human Geography
- PSY 111 - General Psychology
- SOC 101 - Principles of Sociology

Choose one course:

- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics

Choose one course:

- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865

Total credits required: 27-28

Elementary/Secondary TESL Endorsement (teaching English as a second language)

(Also requires completion of elementary education major or the completion of an academic major and the secondary endorsement program.)

Non-education students should see modern foreign languages for the TESL minor and TESL course descriptions.

Requirements:

- Foreign Language (does not include 101-level): 6 credits
- EDU 347 - Reading in the Content Area
- EDU 409 - Philosophy of Education
- EDU 410 - TESL Student Teaching

- ENG 283 - Grammar in the Classroom
- ENG 345 - Linguistic Perspectives on English
- TSL 207 - TESL Grammar
- TSL 224 - Applied Linguistics in Language Education
- TSL 225 - Language Development and Acquisition
- TSL 307 - Methods in TESL (Teaching English as a Second Language)

Total credits required: 29-32

Notes:

International students may choose to substitute 6 credits of ESL course work for the modern foreign languages requirement.

Endorsement in Early Childhood Integrated Settings

Requirements for certification for preschools, kindergarten and special education through grade 3. (Also requires the completion of the elementary education major.)

Requirements:

(The online endorsement requirements can be found at www.nwciowa.edu/online-learning.)

- EDU 229 - Introduction to Early Childhood
- EDU 230 - Organization and Administration of Early Childhood Programs
- EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities
- EDU 300 - Characteristics of Young Children with Diverse Needs
- EDU 301 - Methods for Working with Young Children with Diverse Needs
- EDU 314 - Working with Parents
- EDU 345 - Language Learning and Reading Disabilities
- EDU 429 - Unified Early Childhood Student Teaching

Cognate requirements:

- KIN 104 - First Aid
- KIN 338 - Adapted Physical Education
- PSY 221 - Developmental Psychology: Childhood

Total credits required: 32-37

Notes:

- The online program outlined above meets requirements for the state of Iowa. Students who are teaching elsewhere should check with their state's department of education to determine if NWC's unified endorsement is comparable to and can be substituted for an endorsement in their state. The endorsement enhances your teaching license but does not lead to licensure for un-licensed educators; it is for teachers who have or are working toward a degree in elementary education.
- The unified endorsement authorizes you to teach in integrated settings for children from birth to age 8. It varies from the early childhood special education endorsement, which authorizes the holder to teach in contained special education settings from birth to age 8.
- Requires certification in Infant CPR and First Aid.

General Science Teaching Endorsement Program

(Satisfies state secondary teaching endorsement requirements in general science. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry *
- CHE 112 - General Chemistry

Choose one sequence:

- PHY 111 - General Physics I
- PHY 112 - General Physics II
- PHY 211 - Classical Physics I *
- PHY 212 - Classical Physics II

Total credits required: 24

Note:

*Recommended option

Instructional Strategist I: Mild and Moderate Elementary and Secondary Endorsement

Requires completion of the elementary education major. This endorsement authorizes instruction in all Elementary and Secondary mild and moderate instructional programs to support students with mild to moderate learning and behavioral needs.

Requirements:

- EDU 206 - Survey of Exceptional Individuals
- EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities
- EDU 309 - Transition for Students with Mild to Moderate Disabilities
- EDU 314 - Working with Parents
- EDU 315 - Behavior Management and Classroom Instruction
- EDU 318 - Diagnostic Assessment, Teaching and Evaluation of Special Education Students
- EDU 319 - Communication and Collaborative Partnerships for Special Educators
- EDU 336 - Methods and Strategies for Learners with Mild and Moderate Disabilities (Elementary)
- EDU 337 - Methods of Working with Students with Mild/Moderate Disabilities at the Secondary Level
- EDU 343 - Diagnosis and Correction of Reading Problems
- EDU 345 - Language Learning and Reading Disabilities
- EDU 347 - Reading in the Content Area
- EDU 409 - Philosophy of Education
- EDU 426 - Elementary Special Education Student Teaching
- EDU 428 - Secondary Special Education Student Teaching

Total credits required: 42-50

Instructional Strategist I: Mild and Moderate Elementary Endorsement

Requires completion of the elementary education major. This endorsement authorizes instruction in all Elementary mild and moderate instructional special education programs.

Requirements:

- EDU 206 - Survey of Exceptional Individuals
- EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities
- EDU 314 - Working with Parents
- EDU 315 - Behavior Management and Classroom Instruction
- EDU 318 - Diagnostic Assessment, Teaching and Evaluation of Special Education Students
- EDU 319 - Communication and Collaborative Partnerships for Special Educators
- EDU 336 - Methods and Strategies for Learners with Mild and Moderate Disabilities (Elementary)
- EDU 343 - Diagnosis and Correction of Reading Problems
- EDU 345 - Language Learning and Reading Disabilities
- EDU 426 - Elementary Special Education Student Teaching

Total credits required: 29-33

Instructional Strategist I: Mild and Moderate Secondary

Endorsement

Requires the completion of the secondary education endorsement and a secondary academic major. This endorsement authorizes instruction in all secondary mild and moderate instructional special education programs.

Requirements:

- EDU 206 - Survey of Exceptional Individuals
- EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities
- EDU 309 - Transition for Students with Mild to Moderate Disabilities
- EDU 314 - Working with Parents
- EDU 315 - Behavior Management and Classroom Instruction
- EDU 318 - Diagnostic Assessment, Teaching and Evaluation of Special Education Students
- EDU 319 - Communication and Collaborative Partnerships for Special Educators
- EDU 337 - Methods of Working with Students with Mild/Moderate Disabilities at the Secondary Level
- EDU 343 - Diagnosis and Correction of Reading Problems
- EDU 347 - Reading in the Content Area
- EDU 428 - Secondary Special Education Student Teaching

Total credits required: 31-35

Middle School Endorsement

Requirements for certification to teach all subjects in grades 5 through 8 with the exception of art, industrial arts, music, reading, kinesiology and special education. (Also requires completion of the elementary education major OR completion of an approved major in secondary education and the secondary education endorsement program.)

Requirements:

- EDU 203 - Early Field Experience-Middle School
- EDU 221 - Growth and Development of the Middle School Aged Student
- EDU 312 - Middle School Methods and Curriculum
- EDU 347 - Reading in the Content Area

Cognate requirements:

- ENG 184 - College Writing
- or an advanced writing course*

Holders of this endorsement must complete the course work in two of the following content areas:

Mathematics Sequence:

(Complete 12 credits)

- Math electives (MAT107 or above)

Choose one course:

- MAT 109 - College Algebra
- MAT 127 - Patterns, Functions and Algebra for Elementary Teachers

Science Sequence:

- NSC 101 - Introduction to Earth Science **

Choose one course:

- BIO 110 - Introduction to Life Science
- BIO 102 - Human Anatomy and Physiology
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 205 - Ecology

Choose one course:

- CHE 105 - Topics in Chemistry
- PHY 107 - The Physics of Everyday Life
- PHY 111 - General Physics I

Social Studies Sequence:

- HIS 120HP - Historical Perspectives
- PSC 101 - American National Government
- PSC 260 - Human Geography

Choose one course:

- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865

Language Arts Sequence:

- ENG 277 - Teaching Literature to Adolescents
- ENG 283 - Grammar in the Classroom
- ENG 225 - Literature of the Developing World
- ENG 250LC - Literary Imaginations
- ENG 280 - Shakespeare
- ENG 352 - Reading and Writing Poetry
- ENG 346 - American Literature I
- ENG 347 - American Literature II
- ENG 379 - English Twentieth-Century Literature

Total credits required: 40

Notes:

*Students with an English ACT score of 30 or above may substitute one advanced writing course (chosen from ENG288, 290, 294, 296, 297 or 380).

**Students must complete NSC101, Intro to Earth Science, or an approved AuSable course (AUS217, Field Geology of the Pacific NW; or AUS301, Land Resources, are acceptable options).

Reading Endorsement

Requirements for elementary certification for teaching Title I reading or reading/language arts for over half the school day. (Also requires the completion of the elementary education major.)

Requirements:

- EDU 228 - Children's Literature
- EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities
- EDU 326 - Teaching Reading and Language Arts *
- EDU 343 - Diagnosis and Correction of Reading Problems *
- EDU 345 - Language Learning and Reading Disabilities
- EDU 347 - Reading in the Content Area
- EDU 406 - Student Teaching in Reading
- ENG 184 - College Writing **

Total credits required: 24

Notes:

*Part of the elementary education major

**Students with an English ACT score of 30 or above may substitute one advanced writing course (chosen from ENG288, 290, 294, 296, 297 or 380).

Secondary Education Endorsement

Requirements for certification:

(Also requires completion of an academic major)

Professional/methodology requirements:

- Special Methods (in your major): 2-3 credits*
- EDU 102 - Foundations of Education
- EDU 202 - Early Field Experience
- EDU 206 - Survey of Exceptional Individuals
- EDU 227 - Instructional Technology
- EDU 304 - Educational Psychology
- EDU 307 - General Methods in Secondary Education
- EDU 340 - Human Relations
- EDU 347 - Reading in the Content Area
- EDU 409 - Philosophy of Education
- EDU 415 - Secondary Student Teaching

Cognate requirements:

- Math course: 3-5 credits
- Science course: 4 credits

Choose one course:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence

Total credits required: 36-51

Note:

*See available options in the course description section under EDU308, Special Methods in Major.

English

www.nwciowa.edu/english
www.nwciowa.edu/writing

The English department faculty invites students who love stories, words, and writing to consider one of our majors: Literature, English Teaching or Writing and Rhetoric.

The Literature major provides a substantial background in the history of British, American, and world literature, literary theory, and cultural studies. It can easily be combined with other majors and minors, and is compatible with off-campus and study abroad programs. This major provides excellent preparation for graduate study in literary or cultural studies.

Students who want to teach English will complete an English education major and take classes in Northwestern's NCATE-accredited education department. They will graduate ready to be licensed to teach secondary English in almost every state. Students can complete the program in four years.

Our interdisciplinary major in Writing and Rhetoric must be paired with a minor or an additional major in another discipline. The combination prepares students to pursue goals such as business writing, environmental writing, technical writing, or graduate study. Students interested in creative writing can tailor a Writing and Rhetoric major to include study in poetry, fiction, narrative nonfiction, playwriting, and screenwriting.

English Teaching Major

Students majoring in English education must also complete the requirements of the secondary education endorsement (see the education department listing). These requirements include a cumulative GPA of 2.50 and a 2.50 in the major.

Requirements:

- English electives: 4 credits
- ENG 221 - Responding to Writing
- ENG 277 - Teaching Literature to Adolescents
- ENG 280 - Shakespeare
- ENG 283 - Grammar in the Classroom
- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse
- ENG 345 - Linguistic Perspectives on English

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II

Choose one course:

- ENG 376 - Medieval Literature
- ENG 377 - English Renaissance Literature
- ENG 378 - English Nineteenth-Century Literature
- ENG 379 - English Twentieth-Century Literature

Choose one course:

- ENG 410 - Seminar in Interpretation
- ENG 480 - Special Topics in Literature and Culture

Cognate requirements:

Total credits required: 40

Literature Major

Requirements:

- ENG 480 - Special Topics in Literature and Culture

Choose one course:

- ENG 225 - Literature of the Developing World
- ENG 238 - Literature and Film

Choose one course:

- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse

Choose one course:

- ENG 280 - Shakespeare
- ENG 345 - Linguistic Perspectives on English

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II

Choose one course:

- ENG 376 - Medieval Literature
- ENG 377 - English Renaissance Literature

Choose one course:

- ENG 378 - English Nineteenth-Century Literature
- ENG 379 - English Twentieth-Century Literature

Choose one course:

- ENG 385 - Literature of Place
- ENG 386 - The Other America

Choose one course:

- ENG 410 - Seminar in Interpretation
- ENG 480 - Special Topics in Literature and Culture

Total credits required: 34-36

Writing and Rhetoric Major

Requirements:

- ENG 221 - Responding to Writing
- ENG 235 - Introduction to Rhetorical Studies
- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse
- ENG 297 - The Rhetoric of Persuasion
- ENG 401 - History and Theory of Rhetoric

Choose one course:

- ENG 350 - Reading and Writing Short Fiction
- ENG 351 - Reading and Writing Creative Nonfiction
- ENG 352 - Reading and Writing Poetry

Electives: 10 credits

Choose at least two credits:*

- ENG 380 - Special Topics in Writing
- ENG 387 - Special Topics in Rhetoric

Choose at least two credits:

- COM 185 - Media Writing
- COM 217 - Communication Practicum in Print Media
- COM 230 - Principles of Public Relations
- COM 340 - News Writing and Editing
- COM 261 - Feature Writing
- COM 263 - Layout and Design

Other electives:

- COM 417 - Internship
- ENG 288 - Writing in the Professions
- ENG 345 - Linguistic Perspectives on English
- ENG 390 - Introduction to Publishing
- ENG 395 - Advanced Publishing
- ENG 420 - Advanced Writing Project
- THE 206 - Playwriting: The One-Act
- THE 407 - Playwriting: The Full-Length

Total credits required: 32

Notes:

Students must also complete a minor or an additional major in another discipline.

* Special Topics courses offered in the past include Writing the Farm, Style and Genre, Memoir, Spiritual Writing, Women and Rhetoric.

Internships range from 2-12 credits. The maximum credits applied to the major are noted under the 417 course designation.

English Teaching Minor

(Satisfies state secondary teaching endorsement requirements in English/language arts. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- English electives: 2 credits
- ENG 277 - Teaching Literature to Adolescents
- ENG 280 - Shakespeare
- ENG 283 - Grammar in the Classroom
- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II

Choose one course:

- ENG 376 - Medieval Literature
- ENG 377 - English Renaissance Literature
- ENG 378 - English Nineteenth-Century Literature
- ENG 379 - English Twentieth-Century Literature

Total credits required: 24

Literature Minor

Requirements:

Choose one course:

- ENG 225 - Literature of the Developing World
- ENG 238 - Literature and Film
- ENG 280 - Shakespeare

Choose one course:

- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II

Choose one course:

- ENG 376 - Medieval Literature
- ENG 377 - English Renaissance Literature

Choose one course:

- ENG 378 - English Nineteenth-Century Literature
- ENG 379 - English Twentieth-Century Literature

Choose one course:

- ENG 385 - Literature of Place
- ENG 386 - The Other America

Total credits required: 22-24

Writing and Rhetoric Minor

Requirements:

- ENG 235 - Introduction to Rhetorical Studies
- ENG 297 - The Rhetoric of Persuasion
- ENG 401 - History and Theory of Rhetoric

Electives: 12 Credits

- COM 185 - Media Writing
- COM 217 - Communication Practicum in Print Media
- COM 230 - Principles of Public Relations
- COM 340 - News Writing and Editing
- COM 261 - Feature Writing
- COM 263 - Layout and Design
- COM 417 - Internship
- ENG 221 - Responding to Writing
- ENG 288 - Writing in the Professions
- ENG 290 - The Art of the Essay
- ENG 292 - Introduction to Narrative and Verse
- ENG 345 - Linguistic Perspectives on English
- ENG 350 - Reading and Writing Short Fiction
- ENG 351 - Reading and Writing Creative Nonfiction
- ENG 352 - Reading and Writing Poetry
- ENG 380 - Special Topics in Writing
- ENG 387 - Special Topics in Rhetoric
- ENG 420 - Advanced Writing Project
- PHI 200 - Introduction to Ethics
- THE 206 - Playwriting: The One-Act
- THE 407 - Playwriting: The Full-Length

Total credits required: 22

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Alternative Secondary Teaching Endorsement Program in American History

Requirements:

- American history electives: 6 credits
- Related social science courses: 14-16 credits*
- HIS 150 - Introduction to Historical Inquiry
- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865

Total credits required: 30-32

Note:

*Related courses may be taken from political science, sociology, psychology, world history or economics. If at least 15 credits are taken in one of the related areas, then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in American history).

History

www.nwciowa.edu/history

History, as a discipline at Northwestern, aims to assist the student in the development of an informed perspective on the human past. Such a perspective is integral to a Christian liberal arts education. Lacking a sense of history, a person skims through life on the thin surface of the present. With the study of history, however, one can begin to comprehend the deep currents of culture which shape our lives and those of others today. With this comprehension one is well poised not only to reflect on the past, but also to apply insights gained thereby to resolving the problems of the present and future. History is therefore a discipline which looks backward in order to move forward; it is, in the words of one distinguished historian, “the search for a usable past.”

At Northwestern, history is taught consciously from a Christian perspective. Recognizing that there is no such thing as history written or studied from a “neutral” point of view, the department attempts to study history in the light of the Christian faith while appreciating and drawing on the aid of history written out of other commitments.

Students naturally are concerned about vocational opportunities beyond graduation. Students of history at Northwestern have a wide variety of options open to them because the study of history provides both basic training in disciplined thought and expression as well as a rich framework of knowledge within which to deal with contemporary challenges. Those who concentrate on the study of history therefore may pursue careers in education at every level. Others may go on to full-time historical research or archive management (whether in the business sector or in public institutions). Still others will find the study of history to provide a desirable foundation for graduate studies in law, pastoral ministry, and business, as well as for careers in political, civil, and diplomatic service.

Northwestern College believes, however, that the serious study of history should not be confined to those who major in the field and so introduces it to all students. The history department agrees with this emphasis, and goes beyond it to welcome all students, regardless of major, to extend their understanding of history through further courses taken as electives.

History Major

Requirements:

- HIS 150 - Introduction to Historical Inquiry
 - HIS 201 - History of the United States to 1865
 - HIS 202 - History of the United States from 1865
 - HIS 435 - Philosophy of History and Historiography
- History Electives: 10 credits

Choose one course:

- HIS 320 - Topics in European/World History
- HIS 326 - Modern Europe
- HIS 327 - Nazi Germany and the Shoah
- HIS 328 - History of Medieval Europe

Choose one course:

- HIS 351 - Topics in American History
- HIS 357 - Civil War and Reconstruction
- HIS 358 - The American West

Total credits required: 32

Notes:

Student may choose one course from art history (ART120, 122) and/or one course from church history (REL280, 382) to count toward history electives in the major.

For the history teaching major students must take 16 credits of American history and 16 credits of European/world history. Students majoring in history education must also complete the requirements of the secondary education program (see education department listing for requirements).

History Minor

General history option

(Does not satisfy state teaching endorsement requirements in history and should not be pursued by students in secondary education. Secondary education students should select from the American or world history options.)

- History electives: 22 credits
- HIS 150 - Introduction to Historical Inquiry

Total credits required: 24

American history option

(Satisfies state secondary teaching endorsement requirements in American history. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

- American history electives: 14 credits
- HIS 150 - Introduction to Historical Inquiry
- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865

Total credits required: 24

World history option

(Satisfies state secondary teaching endorsement requirements in world history. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

- European/world history electives: 20 credits
- HIS 150 - Introduction to Historical Inquiry
- HIS 230 - Issues in Cross-cultural History

Total credits required: 26

Alternative Secondary Teaching Endorsement Program in World History

Requirements:

- European/world history electives: 16 credits
- Related social science courses: 12 credits*
- HIS 150 - Introduction to Historical Inquiry

Total credits required: 30

Note:

*Related courses may be taken from political science, sociology, psychology, American history, or economics. If at least 15 credits are taken in one of the related areas, then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in world history).

Humanities

www.nwciowa.edu/humanities

The student seeking a liberal education may wish to investigate a variety of disciplines in the humanities, without majoring exclusively in any one of these disciplines. The interdisciplinary major in humanities provides broad exposure to these various

disciplines.

The humanities include the following disciplines: art, English, Spanish, history, music, philosophy, religion, theatre and speech. Courses that do not count toward a department's major cannot count toward the humanities major.

Humanities Major

Requirements:

Primary humanities discipline:

Choose 27-28 credits from one primary discipline; courses must be selected from the following list.

Secondary humanities discipline:

Choose 12 credits from one secondary discipline; courses must be selected from the following list.

Electives:

Choose 12 credits in humanities from courses other than your chosen primary or secondary discipline; courses must be selected from the following list.

Total credits required: 51-52

Art as primary discipline

- ART 120 - Art History Survey, Prehistoric Through Medieval
- ART 122 - Art History Survey, Renaissance Through Early 20th Century
- ART 206 - Drawing
- ART 215 - Ceramics
- ART 217 - Sculpture
- ART 242 - Printmaking
- ART 244 - Painting

Total credits required: 28

English as primary discipline

- English electives: 8 credits

Choose one course:

- ENG 225 - Literature of the Developing World
- ENG 238 - Literature and Film
- ENG 350 - Reading and Writing Short Fiction
- ENG 352 - Reading and Writing Poetry

Choose one course:

- ENG 346 - American Literature I
- ENG 347 - American Literature II
- ENG 385 - Literature of Place
- ENG 386 - The Other America

Choose one course:

ENG 376 - Medieval Literature

- ENG 377 - English Renaissance Literature
- ENG 378 - English Nineteenth-Century Literature
- ENG 379 - English Twentieth-Century Literature

Choose one course:

- ENG 345 - Linguistic Perspectives on English
- ENG 401 - History and Theory of Rhetoric
- ENG 410 - Seminar in Interpretation
- ENG 480 - Special Topics in Literature and Culture *

Choose four credits:

- ENG 380 - Special Topics in Writing
- ENG 387 - Special Topics in Rhetoric
- ENG 480 - Special Topics in Literature and Culture *

Total credits required: 28

Note:

*This course has varying subject matter and may be taken twice; the humanities major with English as the primary discipline must take it at least once.

History as primary discipline

- History electives: 6 credits
- HIS 150 - Introduction to Historical Inquiry
- HIS 201 - History of the United States to 1865
- HIS 202 - History of the United States from 1865
- HIS 435 - Philosophy of History and Historiography

Choose one course:

- HIS 320 - Topics in European/World History
- HIS 326 - Modern Europe
- HIS 327 - Nazi Germany and the Shoah
- HIS 328 - History of Medieval Europe

Choose one course:

- HIS 351 - Topics in American History
- HIS 357 - Civil War and Reconstruction
- HIS 358 - The American West

Total credits required: 28

Music as primary discipline

- Class or private instruction: 2 credits
- Ensemble participation: 2 credits
- Music electives: 5 credits
- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 318 - History of Music II
- MUS 319 - History of Music III

Choose one course:

- MUS 211 - Music Theory III
- MUS 317 - History of Music I

Choose one course:

- MUS 301 - Basic Conducting
- MUS 320 - World Musics

***Choose one course:**

- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons

Total credits required: 27-28

Note:

*Students with a piano emphasis must substitute 1 credit of class or private lessons in a secondary area.

Philosophy as primary discipline

- Philosophy electives: 12 credits
- PHI 202 - Logic

Choose one course:

- PHI 200 - Introduction to Ethics
- PHI 214 - Contemporary Moral Issues

Choose two courses:

- PHI 225 - Ancient Greek Philosophy
- PHI 226 - Medieval Philosophy
- PHI 227 - Modern Philosophy
- PHI 229 - Twentieth-Century Philosophy

Total credits required: 28

Note:

Majors are required to take at least 8 credits of 300-level (and above) in elective courses.

Religion as primary discipline

Take any combination of REL courses (excluding REL150 and REL250) to equal 28 credits. Up to eight credits of GRE and HEB may be taken.

- REL 260 - Christian Ethics
- REL 280 - History of Christianity
- REL 290 - Christian Witness and Community Development
- REL 294 - Introduction to Christian Missions
- REL 295 - Intercultural Communication
- REL 310 - Christian Spirituality
- REL 317 - Topics in Old Testament Studies
- REL 322 - Topics in New Testament Studies
- REL 328 - Biblical Interpretation and Theology
- REL 370 - Calvin and Calvinism
- REL 375 - Topics in Theology
- REL 382 - Religion in America
- REL 384 - Topics in the History of Christianity
- REL 385 - Topics in Religion
- REL 390 - World Religions
- REL 392 - Topics in Missiology
- REL 472 - Senior Seminar in Religion
- GRE 101 - Elementary Biblical Greek and Culture
- GRE 102 - Elementary Biblical Greek and Culture
- GRE 201 - Intermediate Biblical Greek and Culture

- GRE 202 - Intermediate Biblical Greek and Culture
- HEB 101 - Elementary Biblical Hebrew and Culture
- HEB 102 - Elementary Biblical Hebrew and Culture

Total credits required: 28

Spanish as primary discipline

- Literature courses numbered 300 or above: 6 credits
- Electives: courses numbered 202 or above, taught in Spanish: 21 credits

Total credits required: 27

Note:

A maximum of 18 credits may be from approved study-abroad programs, in language, culture, literature or other humanities courses, numbered 202 or above and taught in Spanish.

Theatre and speech as primary discipline

- THE 112 - Performance Studies
- THE 130 - Introduction to Design
- THE 215 - Acting
- THE 312 - Directing
- THE 406 - Topics in Dramatic Literature

Choose four credits:

- THE 343 - History and Theory I
- THE 344 - History and Theory II

Choose eight credits:

- ENG 280 - Shakespeare
- PHI 238 - Philosophy of the Arts
- THE 114 - Stagecraft
- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 206 - Playwriting: The One-Act
- THE 226 - Scene Design
- THE 227 - Introduction to Lighting Design
- THE 230 - Costume Design
- THE 260 - Drama Ministries Ensemble
- THE 305 - Story and Worship
- THE 315 - Acting: Scene Work
- THE 328 - Advanced Lighting Design
- THE 407 - Playwriting: The Full-Length
- THE 465 - Selected Topics in Theatre and Speech

Total credits required: 28

Kinesiology

www.nwciowa.edu/kinesiology

The philosophical underpinnings of the kinesiology department are rooted in the premise that all people are made after the image of God, and that for Christians, the body is the very residence of the Holy Spirit. These beliefs have profound implications for the relationships Christians have with God, with others, with their own body, and with creation. The required, elective and professional programs in the kinesiology department seek to help students develop and maintain distinctively Christian

relationships in their lives.

The kinesiology department strives to provide an education that plays a vital role in the holistic development of students at Northwestern College. Through the academic programs provided through kinesiology, students have the opportunity to: increase their knowledge, understanding and application of the concepts of healthy living through the required Integrative General Education course; develop physical skills and improve organic fitness through elective activity courses; and become prepared to serve in any number of kinesiology related fields through a variety of professional programs.

The kinesiology department is a broad-based discipline offering educational opportunities in many diverse areas including teaching, coaching, fitness, recreation, athletic training, as well as preparing students for graduate studies. Majors are offered in physical education, exercise science and athletic training. Career concentrations are offered in fitness management and sport management; minors in health and physical education; and a coaching authorization.

Athletic training education program guidelines

The athletic training major is designed to prepare students to pass the Board of Certification Examination (BOC) for the purpose of becoming a certified athletic trainer (ATC). Admission into the athletic training education program (ATEP) will be on a competitive basis. Applications will be accepted twice per year, due October 1 and February 1. Students will have until the February deadline of their sophomore year to make an official application to the program. If a transfer student, the acceptance procedures will vary depending on the institution the student is transferring from (i.e. accredited or non-accredited programs). There is no guarantee that students joining the program late in their career will be qualified to graduate in four years. Each interested student must submit a formal application to the program. If the student meets all necessary criteria he/she will be asked to have an interview with the athletic training program director and the current athletic training staff. Students intending to pursue a career in athletic training will be given preference.

Specific admission, technical standard, retention, graduation criteria and degree completion time line are as follows:

I. Admission requirements

- A. Completion of the formal application to the athletic training education program (ATEP)
- B. Meet established technical standards (see below - III), which will be assessed by:
 1. GPA
 2. Successful completion of mock assessments (interview)
 3. Successful completion of a physical examination administered by an MD, PA, or ARNP (currently on file and verified by the campus nurse)
- C. Certification in CPR for Professional Rescuer (American Red Cross) or Health Care Provider (American Heart Association) and certification in First Aid, with copy of cards attached to the application.
- D. Completion of 30 observation hours and completed required clinical rotations
- E. Students must have the following in order to be considered for admittance into the athletic training program:
 1. Cumulative college GPA of 2.5 or higher
 2. Completion of the following classes with a C (2.0) or better:
 - a. CHE101: College Chemistry
 - b. BIO121: Human Anatomy or BIO102 or BIO115
 3. Currently enrolled in the following classes:
 - a. KIN152: Emergency Care & Environmental Considerations in AT
 - b. KIN234: Prevention and Care of Athletic Injuries
 - c. CHE102: College Chemistry
 - d. BIO122: Human Physiology (not required if completed BIO102 or BIO115)
- F. Submit a completed recommendation form by one peer (current athletic training student)
- G. Interview by the athletic training education program staff and one peer (current athletic training student)

Note: Admission to the program is not only based on meeting the stated, objective criteria, but also on maintaining a staff/faculty to student ratio that would ensure continued high quality education and supervision opportunities currently afforded with the ATEP at NWC.

II. Transfer student admission procedures

Students transferring to Northwestern College who are interested in entering the athletic training education program (ATEP) must first declare this intention in writing to the athletic training program director. Due to the unique characteristics and background of each individual, a transfer student will be evaluated on an individual basis to determine his/her suitability for the program as well as an appropriate entry level. This evaluation will be made only after the program director has received the following:

1. Letter of recommendation from the program director/head athletic trainer of the institution from which the student is transferring
2. Documentation of hours from the above mentioned program director/head athletic trainer
3. A copy of transcripts from the institution from which the student is transferring
4. A copy of the competencies and proficiencies matrix of the courses the student has successfully completed at his/her previous institution (if an accredited ATEP)

It is highly unlikely that a transfer student would have accumulated many clinical hours which could be applied toward the clinical experience. However, if a transfer student feels such time has been accumulated, the student must provide the program director written documentation from his/her former supervising certified athletic trainer. This documentation must include a weekly log of hours, a list of completed clinical experiences and competencies, and a statement signed by the certified athletic trainer verifying satisfactory completion of the competencies in question. All competencies must meet the standards set forth by the National Athletic Trainers Association (NATA). Course work more than three years old will need to be repeated. Any request for course credit transfer must be made to the registrar's office and then communicated to the program director. The following describes in more detail the procedures, depending on what type of institution in which transferring.

1. Non-accredited program transfer

Students who wish to transfer from another college or university where they are not already admitted to a CAATE (Commission on Accreditation of Athletic Training Education) accredited ATEP, must follow the admission procedures as do the first year students.

2. Accredited program transfer

Students who are in good standing at another CAATE accredited major program wishing to transfer to Northwestern College must follow the same application deadline as all applicants. These students must contact the program director by October of the fall semester of application to receive instruction about the process. Review of applications will be based on the same criteria as all students. Advanced placement of students will be determined after admission to the program. The transfer student will be given a battery of tests including physical skills assessment to determine any advanced placement to the extent that the first year of program requirements may be waived. All transfer students must minimally complete the final two year sequence of athletic training course work and clinical practicum.

III. Technical standards for admission

The athletic training educational program (ATEP) at Northwestern College is a rigorous and intense program that places specific requirements and demands on the students enrolled in the program. An objective of this program is to prepare graduates to enter a variety of employment settings and to render care to a wide spectrum of individuals engaged in physical activity. The technical standards set forth by the athletic training educational program establish the essential qualities considered necessary for students admitted to this program to achieve the knowledge, skills and competencies of an entry-level athletic trainer, as well as meet the expectations of the program's accrediting agency (CAATE). The following abilities and expectations must be met by all students admitted to the ATEP. In the event a student is unable to fulfill these technical standards, with or without reasonable accommodation, the student will not be admitted into the program. Compliance with the program's technical standards does not guarantee a student's eligibility for the BOC (Board of Certification) examination.

Candidates for selection to the athletic training educational program must demonstrate:

1. The mental capacity to assimilate, analyze, synthesize, integrate concepts and problem solve to formulate assessment and therapeutic judgments and to be able to distinguish deviations from the norm;
2. Sufficient postural and neuromuscular control, sensory function and coordination to perform appropriate physical examinations using accepted techniques; and accurately, safely and efficiently use equipment and materials during the assessment and treatment of patients;
3. The ability to communicate effectively and sensitively with patients and colleagues, including individuals from different cultural and social backgrounds; this includes, but is not limited to, the ability to establish rapport with patients and communicate judgments and treatment information effectively. Students must be able to understand and speak the English language at a level consistent with competent professional practice;
4. The ability to record the physical examination results and a treatment plan clearly and accurately;
5. The capacity to maintain composure and continue to function well during periods of high stress;

6. The perseverance, diligence and commitment to complete the athletic training education program as outlined and sequenced;
7. Flexibility and the ability to adjust to changing situations and uncertainty in clinical situations;
8. Effective skills and appropriate demeanor and rapport that relate to professional education and quality patient care.

Candidates for selection to the ATEP will be required to verify they understand and meet these technical standards or that they believe that, with certain accommodations, they can meet the standards. The department of academic support will evaluate a student who states he/she could meet the program's technical standards with accommodation and confirm that the stated condition qualifies as a disability under applicable laws.

If a student states he/she can meet the technical standards with accommodation, then the college will determine whether it agrees that the student can meet the technical standards with reasonable accommodation; this includes a review of whether the accommodations requested are reasonable, taking into account whether accommodations would jeopardize clinician/patient safety, or the educational process of the student or the institution, including all course work, clinical experiences and internships deemed essential to graduation.

IV. Retention requirements

In order to maintain "athletic training student" status one must:

- A. Maintain a cumulative college GPA of 2.5;
- B. Must attain a C or higher in every class required in the major;
- C. Maintain current certification in CPR for Professional Rescuer (American Red Cross) or Health Care Provider (American Heart Association) and certification in First Aid;
- D. Successfully complete proficiency assessments and demonstrate learning over time;
- E. Shows effort and demonstrates the appropriate professional and ethical standards.
- F. Completes the minimum number of clinical instruction/observation required for their current level to attain a minimum total of 800 hours;
 1. Level 1 - 30 hours (these must be completed before official acceptance to the program)
 2. Level 2 - 220 hours
 3. Level 3 - 250 hours
 4. Level 4 - 300 hours;
- G. Weekly communication with Clinical Coordinator;
- H. Adhere to the clinical rotation schedule (see Athletic Training Policies and Procedures Manual).

V. Graduation requirements

In order to graduate, the following criteria must be met:

- A. Cumulative college GPA of 2.5;
- B. Certification in CPR for Professional Rescuer (American Red Cross) or Health Care Provider (American Heart Association) and certification in First Aid;
- C. Professional membership in good standing (NATA membership);
- D. Proficient in all clinical competencies that meet the standards set forth by the National Athletic Trainers Association (NATA);
- E. Completion of the minimum number (800) of clinical instruction/observation hours required;
- F. Completion of the required clinical rotations;
- G. Pass physical fitness competency examination which is required of all kinesiology majors (final year of program);
- H. Pass (70% or better) a BOC mock examination.

VI. Degree completion time line

The ATEP is designed to be completed in a typical eight (8) semester sequence including all course work and clinical experiences. Situations that may prolong a student's completion of the program may include but are not limited to:

1. Athletic participation or extracurricular activities
2. Study abroad or an off-campus semester
3. Transfers
4. Student's admitted into the ATEP after their third semester of attending Northwestern College
5. Any other extenuating circumstances requiring students to miss a semester of school.

Athletic Training Major

Requirements:

- KIN 152 - Emergency Care
- KIN 180 - Introduction to Kinesiology
- KIN 233 - Anatomical Kinesiology
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 243 - Recognition and Evaluation of Athletic Injuries I
- KIN 244 - Recognition and Evaluation of Athletic Injuries II
- KIN 251 - Practicum in Athletic Training I
- KIN 252 - Practicum in Athletic Training II
- KIN 325 - Physiology of Exercise
- KIN 330 - Exercise Testing and Prescription
- KIN 342 - Therapeutic Interventions
- KIN 349 - Organization and Administration of Athletic Training
- KIN 351 - Practicum in Athletic Training III
- KIN 352 - Practicum in Athletic Training IV
- KIN 355 - Psychosocial Aspects of Sport for Health Care Professions
- KIN 451 - Practicum in Athletic Training V
- KIN 452 - Practicum in Athletic Training VI

Choose one course:

- KIN 236 - Nutrition for Life
- KIN 370 - Nutrition for Health Care Professions
- KIN 371 - Sports Nutrition

Competency requirements:

- Pass physical fitness competency examination

Cognate requirements:

- BIO 320 - Pharmacology
- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- PSY 111 - General Psychology

Choose one option:

Option 1:

- BIO 121 - Introduction to Human Anatomy
- BIO 122 - Introduction to Human Physiology

Option 2:

- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Total credits required: 65-66

Note:

The following courses are recommended:

- KIN 333 - Biomechanics
- KIN 403 - Motor Learning
- PSY 360 - Psychopathology

Graduates of Northwestern's Athletic Training program are also candidates for physical therapy graduate programs. Athletic trainers cannot become physical therapists without completing physical therapy professional training, nor can physical therapists become athletic trainers unless they have graduated from an accredited athletic training program and passed the Board of Certification examination. Some universities offer a program that combines an entry-level graduate athletic training program and a graduate physical therapy program for students whose undergraduate degree could be in exercise science, biology or a related field.

Exercise Science Major

The exercise science major consists of a science-based curriculum with specific emphasis on applications to exercise and health. This major is intended primarily for those students interested in non-teaching careers in exercise science, health, wellness, fitness, and for those who wish to pursue graduate studies in an exercise science related field.

Requirements:

- KIN 180 - Introduction to Kinesiology
- KIN 233 - Anatomical Kinesiology
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 241 - Directed Field Experience in Kinesiology I
- KIN 325 - Physiology of Exercise
- KIN 330 - Exercise Testing and Prescription
- KIN 333 - Biomechanics
- KIN 341 - Directed Field Experience in Kinesiology II
- KIN 403 - Motor Learning
- KIN 417 - Internship

Choose one course:

- KIN 370 - Nutrition for Health Care Professions
- KIN 371 - Sports Nutrition

Competency requirements:

- Pass physical fitness competency examination
- Pass first aid competency with current CPR and first aid certification
OR complete:
- KIN 104 - First Aid

Cognate requirements:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry

Choose one option:

Option 1:

- BIO 121 - Introduction to Human Anatomy
- BIO 122 - Introduction to Human Physiology

Option 2:

- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Choose one course:

- BIO 102 - Human Anatomy and Physiology
- BIO 115 - General Biology: Molecular and Cellular Biology

Total credits required: 47-52

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Physical Education Major

A major in physical education is designed primarily to prepare individuals to teach physical education in school settings. Students can receive teaching certification in elementary physical education and/or secondary physical education. See the education department section for the elementary and secondary endorsement requirements.

Requirements:

- KIN 180 - Introduction to Kinesiology
- KIN 202 - Organization and Administration of Physical Education
- KIN 206 - Teaching of Sports
- KIN 230 - Physiological Adaptations to Exercise
- KIN 233 - Anatomical Kinesiology
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 250 - Techniques in Resistance Training
- KIN 317 - Methods of Elementary Physical Education and Health
- KIN 318 - Methods of Secondary Physical Education and Health
- KIN 338 - Adapted Physical Education
- KIN 360 - Sport in Societies
- KIN 402 - Assessment in Physical Education
- KIN 403 - Motor Learning

Competency requirements:

- Pass physical fitness competency examination
- Pass swimming competency examination
- Pass first aid competency with current CPR and first aid certification or complete:
- KIN 104 - First Aid

Total credits required: 36-37

Notes:

For students seeking the secondary teaching endorsement KIN206, Teaching of Sports and KIN318, Methods of Secondary Physical Education and Health are required. For students interested in the elementary certification KIN317, Methods of Elementary Physical Education and Health is required.

Certification of competency in swimming, first aid and physical fitness must be on file in the registrar's office prior to the last semester before graduation.

Sport Management Major

Sport management prepares students for a wide variety of careers in sport-related positions. The program is interdisciplinary and has required course work from the disciplines of Kinesiology, Accounting, Business, Economics, Mathematics and Computer Science. The courses will provide foundational and applied areas of study, in addition to practical experiences and internships.

Requirements:

- KIN 182 - Introduction to Sport Management
- KIN 229 - Leadership in Sport Management
- KIN 241 - Directed Field Experience in Kinesiology I
- KIN 320 - Legal and Ethical Issues in Sport
- KIN 341 - Directed Field Experience in Kinesiology II
- KIN 360 - Sport in Societies
- KIN 415 - Seminar in Sport Management
- KIN 417 - Internship

Cognate requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- BUS 200 - Principles of Marketing
- BUS 218 - Business Ethics
- CSC 102 - Business Computing
- CSC 110 - Advanced Spreadsheets
- ECO 213 - Principles of Microeconomics

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 116 - Statistics for the Natural and Social Sciences
- MAT 117 - Applied Statistics for Management

Sport management options (Choose one or more options):

Coaching/athletic administration option (Choose 11 or more credits)

- KIN 202 - Organization and Administration of Physical Education
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 236 - Nutrition for Life
- KIN 260 - Coaching Endorsement
- KIN 300 - Coaching Methods
- KIN 302 - Coaching Topics
- KIN 355 - Psychosocial Aspects of Sport for Health Care Professions
- KIN 398 - Directed Study

Marketing/finance option (Choose 11 or more credits)

- BUS 250 - Management and Organizational Behavior
- BUS 300 - Principles of Finance
- BUS 309 - Human Resource Management
- BUS 325 - Marketing Communications
- BUS 401 - Consumer Behavior
- ECO 214 - Principles of Macroeconomics

Sports information/media option (Choose 11 or more credits)

- ART 220 - Graphic Design I
- COM 185 - Media Writing
- COM 202 - Video Production
- COM 230 - Principles of Public Relations
- COM 340 - News Writing and Editing
- COM 261 - Feature Writing
- COM 263 - Layout and Design
- COM 315 - Writing and Design for the Web
- COM 332 - Social Foundations of Advertising
- COM 355 - Organizational Communication

Total credits required: 54

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Health Minor

Completion of the health minor and completion of a 30-hour teaching major meets the Iowa Department of Education guidelines for a health specialist, which permits the instruction of health in the Iowa public schools.

Requirements:

- BIO 102 - Human Anatomy and Physiology
- KIN 101 - Concepts of Physical Fitness
- KIN 210 - Personal and Community Health
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 236 - Nutrition for Life
- KIN 237 - Substance Abuse
- PSY 221 - Developmental Psychology: Childhood
- SOC 210 - Marriage and Family

Choose one course:

- KIN 230 - Physiological Adaptations to Exercise
- KIN 325 - Physiology of Exercise

Competency requirement:

- Pass first aid competency with current CPR and first aid certification
OR complete:
- KIN 104 - First Aid

Total credits required: 26-28

Physical Education Minor

(Satisfies state secondary teaching endorsement requirements in physical education. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- KIN 180 - Introduction to Kinesiology
- KIN 202 - Organization and Administration of Physical Education
- KIN 206 - Teaching of Sports
- KIN 233 - Anatomical Kinesiology

- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 338 - Adapted Physical Education
- KIN 402 - Assessment in Physical Education
- KIN 403 - Motor Learning

Choose one course:

- KIN 230 - Physiological Adaptations to Exercise
- KIN 325 - Physiology of Exercise

Competency requirements:

- Pass physical fitness competency examination
- Pass first aid competency with current CPR and first aid certification
OR complete:
- KIN 104 - First Aid

Total credits required: 24-26

Coaching Endorsement

Students can receive an athletic coaching authorization by completing the requirements below. A current teaching certificate is not required for the coaching authorization.

OPTION 1:

- KIN 260 - Coaching Endorsement
- KIN 300 - Coaching Methods

OPTION 2:

- BIO 102 - Human Anatomy and Physiology
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 300 - Coaching Methods

Choose one course:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence

OPTION 3:

Complete physical education major and teaching endorsement

Sport Management

The career concentration in sport management helps prepare students for a wide variety of careers in sport-related positions. The sport management career concentration is interdisciplinary and has required course work from the disciplines of Kinesiology, Accounting, Business, Economics, Mathematics and Computer Science. The courses will provide foundational and applied areas of study, in addition to practical experiences and internships. This career concentration will complement the educational preparation of students majoring in Business Administration and Public Relations who desire employment in the sports industry.

Required courses:

- ACC 215 - Principles of Financial Accounting
- BUS 200 - Principles of Marketing
- CSC 102 - Business Computing
- KIN 182 - Introduction to Sport Management
- KIN 241 - Directed Field Experience in Kinesiology I

- KIN 229 - Leadership in Sport Management
- KIN 320 - Legal and Ethical Issues in Sport
- KIN 341 - Directed Field Experience in Kinesiology II
- KIN 360 - Sport in Societies
- KIN 415 - Seminar in Sport Management
- KIN 417 - Internship

Total credits required: 30

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Strength and Conditioning

The career concentration in Strength and Conditioning prepares students to be effective Strength and Conditioning specialists and to also be prepared for graduate work in this area. The curriculum design is intended to supplement the majors of Exercise Science and Athletic Training and will provide students with the knowledge, skills, and experience specifically needed by Strength and Conditioning specialists beyond that which is acquired in the respective majors. The curriculum is intended to provide knowledge and experience specific to coaching/leadership, exercise and performance testing, program design and implementation, professionalism, and facility and personnel management.

Required courses:

- KIN 125 - Aerobic Activity
- KIN 127 - Weight Training
- KIN 215 - Principles of Personal Training
- KIN 229 - Leadership in Sport Management
- KIN 250 - Techniques in Resistance Training
- KIN 281 - Practicum in Strength and Conditioning I
- KIN 333 - Biomechanics
- KIN 381 - Practicum in Strength and Conditioning II
- KIN 393 - Advanced Topics in Strength and Conditioning
- KIN 403 - Motor Learning
- KIN 417 - Internship
- KIN 481 - Practicum in Strength and Conditioning III

Total credits required: 30

Notes:

It is recommended that students choose to take KIN371, Sport Nutrition, instead of KIN236, Nutrition for Life, or KIN370, Human Nutrition for Health Care Professionals, as a part of their major curriculum.

The entry point into the program is to take KIN281, Practicum in Strength and Conditioning I, which has the following prerequisites:

1. BIO121 and BIO122 series or CHE101 and CHE102 series
2. KIN241 Directed Field Experience or KIN251 Practicum in Athletic Training
3. Permission of the program director

Mathematics

www.nwciowa.edu/math

Galileo said that “mathematics is the language with which God has written the universe.” Mathematics courses are fundamentally intended to develop and sharpen students’ skills in this language; with mathematical understanding comes an increased awareness of and appreciation for the natural order behind God’s creation.

Mathematics has long been regarded as a natural component of a liberal arts education because of its strongly analytical, problem-solving emphasis. Recently, there has been increased recognition of the importance of mathematics in the job market; in a technological society, doors are often closed to job-seekers with a deficient mathematics background. A student who desires mathematical preparation for a career in industry, scientific research, engineering or education is well-advised to consider a math major or many courses in mathematics. Students interested in engineering may take a pre-engineering program of two- or three-year duration at Northwestern before transferring to an engineering school to complete his or her training.

Actuarial Science Major

Requirements:

- Mathematics electives: 6 credits*
(excluding 090, 105, 107, 109, 111, 117 and 308)
- MAT 112 - Calculus I
- MAT 180 - Logic and Discrete Mathematics
- MAT 211 - Calculus II
- MAT 212 - Calculus III
- MAT 316 - Probability and Statistics I
- MAT 317 - Linear Algebra
- MAT 416 - Probability and Statistics II
- MAT 430 - Actuarial Modeling I
- MAT 431 - Actuarial Modeling II

Cognate requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- BUS 300 - Principles of Finance
- BUS 304 - Investments
- BUS 404 - Advanced Corporate Finance
- ECO 314 - Intermediate Macroeconomics
- ECO 315 - Intermediate Microeconomics

Total credits required: 60

Note:

*Economics 390-Game Theory may be used as a mathematics elective course

Mathematics Major

Requirements:

- Mathematics electives: 9 credits
(excluding 090, 105, 107, 109, 111, 117 and 308)
- MAT 112 - Calculus I
- MAT 180 - Logic and Discrete Mathematics
- MAT 211 - Calculus II
- MAT 212 - Calculus III
- MAT 317 - Linear Algebra

Choose one course:

- MAT 316 - Probability and Statistics I
- MAT 411 - College Geometry

Choose one course:

- ECO 390 - Game Theory
- MAT 312 - Differential Equations
- PHY 270 - Classical Dynamics

Choose one course:

- MAT 412 - Real Analysis
- MAT 419 - Introduction to Abstract Algebra

Cognate requirements:

- CSC 171 - Computer Science I

Choose one course:

- CHE 433x - Introductory Physical Chemistry
- PHY 211 - Classical Physics I

Total credits required: 45

Notes:

Students may choose to count CHE433, Introductory Physical Chemistry and/or CHE436, Intermediate Physical Chemistry toward mathematics electives in the mathematics major. CHE433, Introductory Physical Chemistry may not count as both the cognate and a mathematics elective.

Students pursuing secondary education certification in mathematics need to include MAT411, MAT419, and either MAT316 or MAT116.

Mathematics Minor

Requirements:

- Mathematics electives: 3 credits*
(excluding 090, 105, 107, 109, 111, 117 and 308)
- CSC 171 - Computer Science I
- MAT 112 - Calculus I
- MAT 180 - Logic and Discrete Mathematics
- MAT 211 - Calculus II
- MAT 317 - Linear Algebra

Total credits required: 21

Note:

* ECO390, Game Theory, or CHE433, Introductory Physical Chemistry, may be used as a mathematics elective courses.

Mathematics Teaching Minor

(Satisfies state teaching endorsement requirements in mathematics for students completing the secondary education endorsement. Also satisfies state teaching endorsement requirements in mathematics for students majoring in elementary education.)

Requirements:

- CSC 171 - Computer Science I
- MAT 112 - Calculus I
- MAT 180 - Logic and Discrete Mathematics
- MAT 211 - Calculus II
- MAT 317 - Linear Algebra
- MAT 411 - College Geometry

Choose one course:

- MAT 116 - Statistics for the Natural and Social Sciences
- MAT 117 - Applied Statistics for Management

Total credits required: 24

Medical Laboratory Science

Medical Laboratory Science Major

www.nwciowa.edu/medicaltechnology

The medical laboratory science program is designed to furnish the student with a liberal arts education and with the skills required to serve as a medical laboratory scientist. The program is based upon three years of college preparatory work and one year in clinical, professional training at one of several hospital-based programs affiliated with Northwestern College. Upon satisfactory completion of the four years of study, the student will receive the Bachelor of Arts degree with a major in medical laboratory science. (Students may elect to spend four years at Northwestern before entering the clinical year, a so-called 4+1 program.) At the conclusion of the program, a national registration examination is taken, leading to certification in medical laboratory science. A certificate of completion will be issued by the affiliated hospital-based school.

The medical laboratory science student must fulfill all of Northwestern College's Bachelor of Arts degree requirements, and a minimum of 96 credits must be earned at Northwestern. Additionally, between 30 and 40 credits are received for the course work completed while enrolled in the hospital-based clinical program.

Courses in anatomy, computer science, statistics, physics, communication (speech), management, psychology, parasitology, and education are also recommended. A minimum of 96 credits must be earned with a minimum grade point average of 2.80 for admission into the clinical year. The clinical year of professional study at an affiliated hospital includes the following courses:

Clinical Chemistry 6-12

Clinical Hematology 5-8

Clinical Immunohematology 3-6

Clinical Immunology 2-5

Clinical Microbiology 6-12

Clinical Urinalysis/Microscopy/Body Fluids 1-3

Northwestern College is affiliated with hospital-based schools of medical laboratory science located at:

Mercy Medical Center;
Sioux City, Iowa

St. Luke's Regional Medical Center;
Sioux City, Iowa

Sanford Hospital;
Sioux Falls, South Dakota

Applications to the hospital-based programs are usually made early in the academic year preceding the clinical year. The application deadline is October 1. Specific information regarding each hospital program, including application deadlines and procedures, credit hours awarded by each hospital program, fees, and other information is available from the coordinator on Northwestern's campus. Students must register at Northwestern in order to receive financial aid. An administrative fee is charged for all off-campus programs. Northwestern does not charge tuition for the year of professional training. Costs vary with each hospital-based program. Students interested in careers in medical laboratory science are urged to consult with the coordinator for this program at the earliest possible time.

Program Coordinator: T. Lubben

The pre-professional preparation at Northwestern must include the following courses:

Requirements:

- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 202 - Genetics
- BIO 203 - Microbiology
- BIO 222 - Human Physiology
- BIO 315 - Immunology
- CHE 315 - Instrumental Analysis
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- MAT 208 - Biostatistics
- BIO 326x - Biochemistry: Proteins and Metabolism
or
- CHE 326x - Biochemistry: Proteins and Metabolism

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry *
- CHE 112 - General Chemistry

Total credits required: 48

Note:

*Recommended option

Modern Foreign Languages

www.nwciowa.edu/foreignlanguages

The modern foreign languages program is designed to meet the wide range of needs of our student body. The program has the dual goals of communicative competence and cultural awareness. The curriculum is designed so that the students can enter the program in a course that matches their own level of proficiency. Generally speaking, it is best to begin the study of a foreign language as a freshman.

Students with no previous experience in foreign language study begin with a 101 course; those who have already studied German or Spanish can take the language placement exam in order to begin their study at the appropriate course level. The language placement exam is used to determine initial placement into a modern foreign language sequence **prior** to taking language courses at Northwestern College. Once a student is in the language sequence, the student must complete the 201-level course in that language to meet the Integrative General Education Language and Culture requirement (LA). A student may repeat the placement exam prior to beginning the language sequence, with the highest score used for placement. Once a student is in the language sequence, the language placement test cannot be used to meet the Integrative General Education requirement. The language

placement exam is offered in early January, mid-March, late-May, late-August and mid-October. Please see the college calendar for exact dates. For further information, contact the modern foreign languages department.

The department offers a major and a minor in Spanish, a minor in German, an elementary/secondary TESL endorsement for education majors, a TESL minor for non-education majors, and a one-year ESL certificate for international students.

A major in Spanish can be used as preparation for teaching, graduate study, library science, foreign language education, comparative literature study, employment in Latin America and for a career in translating and interpreting. In conjunction with another major, the Spanish major can lead to enhanced employment possibilities in business, social work, teaching ESL, medical work, travel, missions, the legal profession or library science. A Spanish major can also be combined with a secondary education endorsement (see education section in this catalog).

All students majoring in Spanish are required to study at least one semester in an approved study abroad program. Northwestern College, in cooperation with other colleges and programs, provides the opportunity to study in different locations throughout Latin America and Spain. The student must be accepted into the program both by the department and the off-campus study committee. Students who study abroad in our program remain Northwestern students and are able to maintain most of their financial aid. Students majoring in humanities with Spanish as their primary discipline, although encouraged to study abroad, are exempt from the study abroad requirement (see humanities section in this catalog).

Although students majoring in a foreign language are required to study abroad, the Spanish minor is designed so that the student may begin the study of the language as a first-semester freshman and still complete the minor on Northwestern's campus. However, summer study opportunities are available, and are recommended for all minors. Students majoring in humanities may elect to have Spanish as their secondary discipline (see humanities section in this catalog).

The minor in German is designed with a required semester of study-abroad. After completing the 101-202 language sequence at Northwestern (typically one to four semesters), students then study for one semester through an approved program in Germany.

The TESL endorsement and minor are designed to equip students with the necessary skills to teach English as a second language (ESL). The endorsement is designed for students who are education majors and are interested in teaching ESL in a K-12 setting within the United States (see education section in this catalog). The ESL minor is for non-education students who will not be teaching ESL in a K-12 setting. TESL students are strongly encouraged to combine their TESL studies with a major or minor in Spanish for increased competence and enhanced employment possibilities.

The ESL Certificate of English Language studies is designed for international students seeking to improve their English language skills.

Spanish Major

Requirements:

- Spanish electives (beyond Spanish 202): 6 credits **
- Semester Abroad: 12 credits ***
- SPA 202 - Intermediate Spanish Language and Culture
- SPA 311 - Advanced Spanish Conversation *
- SPA 312 - Advanced Grammar and Composition
- SPA 314 - Introduction to Reading Hispanic Literature
- SPA 376 - Study Abroad Cross-Cultural Preparation
- SPA 377 - Enhancing the Study Abroad Experience

Choose one course:

- SPA 351 - Survey of Hispanic Literature from Spain
- SPA 352 - Survey of Hispanic Literature from the Americas

Total credits required: 35

Notes:

*1 credit course, repeated a minimum of 3 different semesters. Additional credits may be applied towards Spanish electives.

**Students may substitute 3 credits from either French or German languages.

***Students must study Spanish abroad in a *Spanish-speaking* country through an approved program (the list of approved programs to complete the semester abroad requirement for the Spanish major is available from the chair of the Modern Foreign Languages department, Registrar's Office or Career Development Center director).

For students seeking the secondary teaching endorsement in Spanish:

1. Students must earn a minimum of 85% accuracy on the language pronunciation exam prior to student teaching. The pronunciation test score must be on file in the registrar's office by the end of the semester prior to graduation.
2. LAN308, Methods of Teaching Secondary Foreign Language is required
3. TESL307, Methods in TESL is recommended

Translation and Interpretation Major: Spanish-English

The closely related fields of translation and interpreting are becoming increasingly important in today's society. With the growing importance of Spanish, the need for qualified interpreters and translators continues to rise. The translation and interpreting program at Northwestern College has been developed to equip the student with the necessary knowledge, tools and abilities to become a competent interpreter and translator.

Successful professional interpreters and translators have a wide range knowledge in many subject areas. As such, a liberal arts education is key to future success in the field, and interpreting and translation students are encouraged to take additional courses in different subject areas. Furthermore, the seven specific courses in translation and interpretation are designed to give the necessary theoretical platform for successful translation and interpreting. As students advance through the program, they will learn to apply the theoretical principles as well as the knowledge acquired in other Liberal Arts courses in order to achieve superior translation and interpreting outcomes.

The translation and interpreting program is intended for incoming bilingual students (those students who are seeking to improve their knowledge of Spanish should enroll in the regular Spanish major) and requires a minimum of seven semesters to complete. During the earlier courses in the program, the focus will be on translating and interpreting from the students' B language into their A language; however, as students progress through the program, there will be increasing emphasis as well on working from the A language into the B language. Courses focus on a wide range of subject areas and include a strong emphasis on service learning -- thereby providing real world experience for the students -- as well as an ongoing focus on moral, ethical and Christian considerations for interpreters and translators.

Not only is it one of a handful of programs at the baccalaureate level in the United States, the Northwestern program has also invested in the necessary training resources for its students. The college has a dedicated interpreting laboratory with 13 soundproof booths, an interpreting booth as part of the college's main venue for many public events, as well as portable equipment.

In the final year of the program, students will participate in a practicum experience in which they will be in the community as professional interpreters and translators. Not only will they be providing an important service to the community, they will also be acquiring valuable experience and applying what was learned in the classroom. The practicum is the final step of the Northwestern program before the student begins a career in interpreting and translation or proceeds to graduate study in the field.

Student Learning Goals:

Upon successfully attaining a B.A. in Translation and Interpretation, as student will:

1. Be able to translate general written documents from his/her B language into his/her A language at a quality level that would be acceptable at a professional level without additional major revisions or editing.
2. Be able to translate general written documents from his/her A language into his/her B language at a quality level that would be acceptable at a professional level with a limited amount of additional revision or editing.
3. Be able to interpret consecutively from his/her B language into his/her A language for a general speaker of that language for segments of up to one minute without major meaning errors or major omissions.
4. Be able to interpret simultaneously from his/her B language into his/her A language for a general speaker of that language without major meaning errors or major omissions.
5. Understand the theoretical principles of translation and interpreting and be able to apply them in his/her translation and interpreting and thereby attain goals #1 and #2.
6. Be able to sight-translate general documents from his/her B language into his/her A language.
7. Have developed life-long learning habits that include reading a wide array of materials in both languages from many different disciplines.

8. Understand and be able to apply the moral and ethical considerations for translators and interpreters, as well as their role as Christians in these fields.
9. Be able to handle and present themselves as professional translators and interpreters as well as reacting in a professional way to demanding and uncomfortable situations and translating and interpreting assignments.

Requirements:

- SPA 202 - Intermediate Spanish Language and Culture
- SPA 312 - Advanced Grammar and Composition
- SPA 326 - The Sounds of Spanish
- SPA 327 - Hispanics in the United States
- SPA 331 - Introduction to Translation and Interpreting
- SPA 332 - Interpreting I
- SPA 333 - Interpreting II
- SPA 334 - Interpreting III
- SPA 336 - Translation I
- SPA 337 - Translation II
- SPA 338 - Translation III

Choose one course:

- SPA 345 - Practicum in Translation and Interpreting
- SPA 417 - Internship

Cognate requirements:

- ENG 345 - Linguistic Perspectives on English
- PSC 225 - Introduction to Law

Choose one course:

- BIO 102 - Human Anatomy and Physiology
- SOC 304 - Ethnicity, Power and Identity

Total credits required: 47

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

German Minor

(Satisfies state teaching endorsement requirements in German. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Semester Abroad (through an approved program): 15 credits*
- GER 102 - Beginning German Language and Culture
- GER 201 - Intermediate German Language and Culture
- GER 202 - Intermediate German Language and Culture

Total credits required: 24

Notes:

*Semester abroad course work must include at least one course in advanced German grammar and/or structure; one course in advanced conversation and/or phonetics; one course in German civilization and/or literature; and if applicable, German elective credits.

1. Those students who place beyond GER102 on the language placement exam will fulfill the 24-credit requirement through additional credits abroad and/or CLEP examinations.
2. Upon returning from the semester abroad program, students will complete a capstone paper contrasting their own culture with that of the country in which they studied and complete an oral interview with the German professor.

Spanish Minor

(Satisfies state teaching endorsement requirements in Spanish. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- SPA 202 - Intermediate Spanish Language and Culture
- SPA 311 - Advanced Spanish Conversation *
- SPA 312 - Advanced Grammar and Composition
- SPA 314 - Introduction to Reading Hispanic Literature

Choose one course:

- SPA 351 - Survey of Hispanic Literature from Spain
- SPA 352 - Survey of Hispanic Literature from the Americas

Electives: 10-12 Credits

- GEN 350 - Topics in Cross-Cultural Studies

Total credits required: 25-27

Note:

* 1 credit course, taken 3 different semesters.

Students may substitute GEN350 for SPA351 or SPA352 by completing a course substitution form, obtaining the appropriate signatures and submitting it to the Registrar's Office.

TESL (teaching English as a second language) Minor

The TESL minor is designed for non-education majors who plan to teach ESL outside the United States, and/or in a church or community-based program in the United States. Education majors who plan to teach ESL in a K-12 setting should consult the TESL endorsement requirements under the education department.

Requirements:

- Foreign language: 0-9 credits (201 proficiency in modern foreign language)
- ENG 283 - Grammar in the Classroom
- ENG 345 - Linguistic Perspectives on English
- TSL 207 - TESL Grammar
- TSL 222 - Practicum in TESL
- TSL 224 - Applied Linguistics in Language Education
- TSL 225 - Language Development and Acquisition
- TSL 307 - Methods in TESL (Teaching English as a Second Language)

Total credits required: 20-29

ESL (English as a second language) Certificate of English Language Studies

The one year ESL Certificate Program offers a distinctive experience for international students who wish to study English in the United States. The requested courses are sequenced and integrated such that students who wish to study for a year and then return to their homes have substantially improved English proficiency, a greater understanding of American culture, and practical skills. Another unique feature of the certificate program is the tutoring aspect: each ESL student will be paired with an American student for one hour of daily individual tutoring. They also will have had the experience of close interaction with American students through shared experiences, e.g. dorm life and other college activities.

For those students who wish to pursue the B.A. or B.S. degree, the program is intended to improve English proficiency so they will be able to take regular courses. Upon acceptance into the B.A. or B.S. program (contingent on meeting TOEFL and all other requirements for admission), they will receive regular academic credit for the ESL courses, which will count toward the 124 required for graduation. They will then take the required Integrative General Education courses, complete the requirements for a major, and fulfill any other requirements needed for graduation. Students receive the full benefit of the Christian liberal arts education Northwestern College offers, plus a Northwestern College Certificate of English as a Second Language.

Requirements:

- Elective: 3-4 credits
- ESL 101 - Introduction to American Culture
- ESL 201 - Oral English
- ESL 202 - ESL Bible
- ESL 203 - ESL Writing
- ESL 205 - Business English
- ESL 206 - English for Academic Purposes
- ESL 251 - Advanced Oral English

Total credits required: 27-28

Music

www.nwciowa.edu/music

Northwestern's music department is dedicated to a Christ-centered and holistic educational process that draws students toward musical maturity so they might transform the world around them.

The music department has the following goals:

1. Students will develop a greater understanding of the integration of the Christian faith and their lives as musicians.
 2. Students will grow in musical maturity through development in critical thinking, creative self-expression, musical sensitivity and artistry. This growth will enable them to transform the world around them through their work in music education, ministry-related positions, other music-related career work, graduate school, further professional or technical training, and/or a vocational positions.
- A. Students will develop musical and academic skills necessary for cognition in the structure, history, theory and techniques of music.
 - B. Students will demonstrate musical understanding and growth through active music making and listening.

The music department offers two majors to which a career concentration or pre-professional program may be added.

Piano Proficiency

The piano proficiency exam is used to assess keyboard facility in the areas of scales, chord progressions, sight reading, solo performance and accompanying. All Music Majors, Music Ministry Majors, Modified Music Majors and Music Minors must enroll in class or private piano beginning in their first semester as a freshman until all parts of the piano proficiency exam are passed. The piano proficiency should be completed by the end of the sophomore year. Music education and music ministry majors must complete all parts of the piano proficiency exam prior to scheduling their student teaching experience or practicum.

Juries

Performance examinations are given each semester to all majors and minors who are enrolled in applied music. These allow the music faculty to evaluate student progress in the areas of musical expression and technical facility.

Recital Attendance

All students enrolled in applied music lessons are required to attend a specified number of on-campus recitals, concerts and applied performance labs each semester.

Performance Requirement

Students who are enrolled in applied music lessons will be expected to perform in applied performance labs at the discretion of the instructor.

Modified Music Major with Elementary Education

(Also requires completion of elementary education major.)

Requirements:

- Class or private instruction (must include 2 credits of vocal): 3 credits
- Ensemble participation: 2 credits
- Music electives: 2 credits
- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 211 - Music Theory III
- MUS 301 - Basic Conducting
- MUS 307 - Teaching Elementary Vocal Music
- MUS 317 - History of Music I
- MUS 318 - History of Music II
- MUS 319 - History of Music III

Choose one course:

- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons

Cognate requirements:

- PHI 238 - Philosophy of the Arts

Total credits required: 35

Note:

Following a music placement exam, students will either be placed in Music Theory I (MUS111) or Music Fundamentals (MUS101). MUS101 does not count toward a music major, music ministry major or music minor.

Music Major

Requirements:

- Class or private instruction in major area: 4 credits
- Ensemble participation: 2 credits
- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 211 - Music Theory III
- MUS 212 - Music Theory IV
- MUS 301 - Basic Conducting
- MUS 317 - History of Music I
- MUS 318 - History of Music II

- MUS 319 - History of Music III
- MUS 320 - World Musics
- MUS 412 - Special Topics in Music

***Choose one course:**

- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons

Cognate requirements:

- PHI 238 - Philosophy of the Arts

Total credits required: 40

Notes:

*Students with a piano emphasis must substitute 1 credit of class or private lessons in a secondary area.

Following a music placement exam, students will either be placed in Music Theory I (MUS111) or Music Fundamentals (MUS101). MUS101 does not count toward a music major, music ministry major or minor.

Recommended course for voice emphasis: MUS217 (Vocal Pedagogy) or MUS218 (Vocal Diction).

Recommended course for piano emphasis: MUS214 (Piano Pedagogy) or MUS216 (Survey of Piano Literature).

Recommended course for organ emphasis: MUS222 (Survey of Organ Literature).

Music Ministry Major

Requirements:

- *Ensemble participation: 2 credits
- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 115 - Music of the Church
- MUS 211 - Music Theory III
- MUS 223 - Organ for Music Ministry
- MUS 230 - Hymnology/Liturgy
- MUS 231 - Church Music Administration
- MUS 233 - Leading Music for Worship in a Changing Culture
- MUS 261 - Voice
- MUS 301 - Basic Conducting
- MUS 318 - History of Music II
- MUS 319 - History of Music III
- MUS 320 - World Musics
- MUS 401 - Music Ministry Practicum

Choose one course:

- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons

Choose 3-4 credits:

- MUS 212 - Music Theory IV
- MUS 219 - Survey of Choral Literature
- MUS 222 - Survey of Organ Literature
- MUS 232 - Music Technology
- MUS 246 - Music Ministry Guitar

- MUS 252 - Lead Sheet Piano
- MUS 302 - Advanced Conducting
- MUS 303 - Orchestration
- MUS 317 - History of Music I
- MUS 325 - Recital
- MUS 334 - Composition
- MUS 337 - Choral/Instrumental Arranging
- MUS 412 - Special Topics in Music

Cognate requirements:

- PHI 238 - Philosophy of the Arts

Choose 4 credits:

- CEY 210 - Foundational Issues in Christian Education
- CEY 310 - Leadership Development
- CEY 380 - Narrative and Spiritual Formation
- REL 280 - History of Christianity
- REL 310 - Christian Spirituality
- REL 317 - Topics in Old Testament Studies
- REL 385 - Topics in Religion

Total credits required: 46-47

Notes:

Following a music placement exam, students will either be placed in Music Theory I (MUS111) or Music Fundamentals (MUS101). MUS101 does not count toward a music major, music ministry major or minor.

*Must include 1 credit of choral ensemble.

Arts Administration Minor

The Arts Administration Minor requires students to major in a fine arts program (Art, Music or Theatre). This minor builds on a student's existing artistic base earned from their fine arts major. It is intended to equip students with the direction and practical skills needed to help art flourish in the larger culture. Possible applications might include entry-level administrative positions in theatre companies, art galleries, symphonies and other community-based arts organizations.

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 310 - Non-Profit and Governmental Accounting
- BUS 200 - Principles of Marketing
- COM 185 - Media Writing
- COM 230 - Principles of Public Relations
- COM 263 - Layout and Design
- CSC 110 - Advanced Spreadsheets

Internship: 4 credits

- ART 417 - Internship
- MUS 417 - Internship
- THE 417 - Internship

Choose one course:

- BUS 305 - Organizational Behavior and Theory

- COM 332 - Social Foundations of Advertising

Total credits required: 27

Note:

Students must also complete a major in Art, Music or Theatre. The internship must be for a minimum of 4 credits.

Music Ministry Minor

The Music Ministry Minor allows students pursuing other areas of study the chance to learn about the history, practice, performance, and theology of music for worship, preparing them to contribute to a church music program with insight and experience.

Required courses:

- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 115 - Music of the Church
- MUS 230 - Hymnology/Liturgy
- MUS 233 - Leading Music for Worship in a Changing Culture
Ensembles (2 credits)
Private Lessons (2 credits)

Choose one credit:

- MUS 181 - Voice Class
- MUS 261 - Voice

Choose one credit:

- MUS 130 - Piano Class Beginners I
- MUS 131 - Piano Class Beginners II
- MUS 132 - Piano Class Intermediate I
- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons
- MUS 252 - Lead Sheet Piano

Choose five credits:

At least 2 credits must be at the 300 level.

- MUS 211 - Music Theory III
- MUS 219 - Survey of Choral Literature
- MUS 222 - Survey of Organ Literature
- MUS 231 - Church Music Administration
- MUS 246 - Music Ministry Guitar
- MUS 301 - Basic Conducting
- MUS 318 - History of Music II
- MUS 319 - History of Music III
- MUS 320 - World Musics
- MUS 325 - Recital
- MUS 337 - Choral/Instrumental Arranging

Total credits required: 24

Music Minor

Requirements:

- Class or private instruction: 2 credits
- Ensemble participation: 2 credits
- MUS 111 - Music Theory I
- MUS 112 - Music Theory II
- MUS 211 - Music Theory III
- MUS 301 - Basic Conducting
- MUS 318 - History of Music II
- MUS 319 - History of Music III

Choose one course:

- MUS 317 - History of Music I
- MUS 320 - World Musics

Choose one course:

- MUS 133 - Piano Class Intermediate II
- MUS 251 - Piano Lessons

Total credits required: 25-26

Note:

Following a music placement exam, students will either be placed in Music Theory I (MUS111) or Music Fundamentals (MUS101). MUS101 does not count toward a music major, music ministry major or minor.

Music Education - Secondary Endorsement

Students majoring in secondary music education must complete the requirements of the secondary education program (see education department listing for requirements), the requirements of the music major, and the courses in instrumental and/or vocal music listed below:

Instrumental music

- Class or private instruction in major instrumental area: 2 credits
- Class or private instruction in secondary instrumental area: 2 credits
- Ensemble participation: 1 credit
- MUS 215 - Survey of Instrumental Literature
- MUS 302 - Advanced Conducting
- MUS 303 - Orchestration
- MUS 309 - Teaching Instrumental Music
- MUS 325 - Recital

***Choose three courses:**

- MUS 224 - Methods of Teaching Brass Instruments
- MUS 225 - Methods of Teaching Woodwind Instruments
- MUS 226 - Methods of Teaching Percussion Instruments
- MUS 227 - Methods of Teaching String Instruments

Total credits required: 17

Vocal music

- Class or private instruction in voice: 2 credits
- Ensemble participation: 1 credit
- MUS 217 - Vocal Pedagogy
- MUS 218 - Vocal Diction
- MUS 219 - Survey of Choral Literature
- MUS 220 - Survey of Vocal Literature
- MUS 302 - Advanced Conducting
- MUS 307 - Teaching Elementary Vocal Music
- MUS 308 - Teaching Secondary Vocal Music
- MUS 325 - Recital

Total credits required: 17

Notes:

*Those specializing in band must choose 224, 225 and 226

*Those specializing in orchestra must choose 227 and two other courses

Students desiring certification in both instrumental and vocal music education must complete 2 credits in their major instrumental area and 2 credits in voice.

Nursing

www.nwciowa.edu/nursing

The Northwestern College Bachelor of Science in Nursing (BSN) program is a 135-semester hour program designed for students who are interested in practicing as a professional nurse. A cumulative grade point average (CGPA) of 2.70 is required for admission, progression and graduation from the BSN program. Related program fees are listed under the financial information portion of the NWC catalog. The BSN program is approved by the Iowa Board of Nursing. The board can be contacted as follows: Iowa Board of Nursing, 400 SW 8th St., Suite B, Des Moines, IA 50309-4685. Tel: (515)281-3255 or www.iowa.gov/nursing. The program is also accredited by the Commission on Collegiate Nursing Education (CCNE). One Dupont Circle, NW, Suite 530, Washington, DC 20036. Phone: (202)887-6791 Fax: (202)887-8476.

The mission of the department of nursing is to promote shalom (health, wholeness and peace from a biblical perspective), hope and healing by developing practitioners who are committed to continuing Jesus' healing ministry and who advocate for social justice, healthy environments and healthy communities. It is based on a biblical framework of health and healing as described in Matthew 25:35-40, by other accounts of Jesus' healing ministry and supported by other scholarly works. This mission is accomplished through collaborative partnerships with colleagues, other educational organizations, health care facilities, social and faith-related organizations, and the larger community. This mission is lived primarily, but not exclusively, in educating bachelors-prepared nurses within a Christian academic community and by accomplishing the following purposes:

1. Facilitating personal, interpersonal and professional development;
2. Preparing nurses who are committed to Jesus' healing ministry as they promote, restore and maintain the holistic health of persons in a variety of settings;
3. Developing nurses grounded in a Christian worldview and ethic, who serve as servant leaders as they advocate for local, national and global health policies and practices that promote shalom for the public;
4. Promoting critical thinking and the development, integration and evaluation of new or expanded knowledge into practice;
5. Providing a foundation for life-long learning and graduate education in nursing.

The philosophical underpinnings of the nursing department are rooted in a theology of nursing as a healing ministry, human science and performing art including the concepts of person, environment and health.

The person is created in God's image to glorify God, reflect his love and mercy and to enjoy being in God's presence for all of eternity. Persons are dependent on God, even if they do not recognize this aspect of their nature. A client may be an individual, family, group or community and is viewed holistically and respected and honored as an image-bearer of God.

The environment includes all factors or influences surrounding and interacting with the person. Environmental influences can contribute to health and healing or to the development of disease.

Health is a holistic process in which all dimensions are centered in and in harmony with a transcendent relationship with God. *Shalom* is a dynamic experience of health, wholeness and peace that pervades all aspects of life and is lived in relationship to the Triune God. *Shalom* is experienced personally, but this experience is lived in community. The faculty believes access to health care is a human right, persons have a moral obligation to care for their health as faithful stewards, and nurses have a sacred duty to advocate for healthy environments and for just allocation of health and social-related resources. In this way, nurses are able to be partners in promoting *Shalom*.

Nursing is identified as a professional practice discipline and is characterized by a unique body of knowledge oriented to the facilitation of a client's health and wholeness, hope and healing by health promotion/risk reduction/disease prevention (primary prevention), health restoration/illness and disease management (secondary prevention), and/or maintenance of health and wholeness (tertiary prevention). The concept of health is described as the Biblical concept of *Shalom*: health, wholeness and peace in a living relationship with God.

Nursing as a healing ministry is anchored in Christian compassion and in pursuing *Shalom* and sees Jesus in the face of all persons. It seeks to promote health, hope and healing, alleviate distress and live in a ministry of presence to persons in need. Nursing relationships include relationships with clients and their families, other health care, faith-based and social service providers, and governmental and non-governmental socio-political structures.

Nursing as a human science is the unique body of abstract knowledge pertaining to the relationships between persons, the environment and their health. It is discovered by conceptual development and scientific inquiry.

The performing art of nursing relates to the application of nursing and related knowledge in the care of persons. Specifically, nursing as art is the creative and distinctive application of this scholarship in service to individuals, families, groups and communities within a context of Christ-center compassionate care.

BSN PROGRAM POLICIES

The nursing major is designed to prepare students to practice Christian nursing and pass the National Council Licensure Examination for Registered Nurses (NCLEX-RN) for the purpose of becoming a registered nurse (R.N.).

I. BSN Program Admission Guidelines and Policies

- A. Students admitted to the college may formally apply for admission to the nursing major. Application is made by April 10 of the freshman year. Application forms may be obtained from the academic adviser or chair of the department of nursing. Decisions regarding acceptance to the nursing major will be made by the faculty of the department of nursing. The nursing faculty organization will formally act on the applications prior to college graduation.
- B. Requirements for admission to the nursing major are:
 1. Completion of the following prerequisite courses:
BIO121, Introduction to Human Anatomy
BIO122, Introduction to Human Physiology
CHE101, College Chemistry
CHE102, College Chemistry
PSY221, Developmental Psychology: Childhood
SOC101, Principles of Sociology-Recommended Pre-Nursing Course

The following courses must be completed prior to NUR260, Fundamentals of Nursing:
BIO203, Microbiology
PHI214, Contemporary Moral Issues
REL150, Christian Story I: Biblical Tradition

Note: Students with an ACT math score of 26 or above may enroll in CHE111, General Chemistry and then progress into CHE102, College Chemistry. (This option may be especially helpful for nursing students who are considering graduate education in nursing/health sciences.)

2. A cumulative grade point average (CGPA) of at least 2.70.
3. Submission of the following documents:
 1. Application to the nursing program form and approval by the department of nursing faculty;

2. Signed intent to adhere to the professional conduct standard;
 3. A declaration of major form
 4. Results of a psychological inventory administered by a licensed professional;
 5. Statement of the student's ability to provide safe nursing care;
 6. A satisfactory national criminal background check and adult and child abuse record. Any felony convictions or abuse findings will be evaluated by the department of nursing faculty using the Iowa Board of Nursing guidelines for initial licensure. The failure to provide the chair the results and/or falsification of any required documentation are grounds for dismissal from the nursing program. Students are responsible for the cost of the national criminal background check;
 7. A complete Northwestern College health form and a signed HIPPA release form must be on file in the wellness center prior to beginning the first clinical nursing course. The student must submit the following: 1. A record of immunization including a 2nd MMR (or MMR titer), a 2nd Varicella (or a Varicella titer), tetanus (within the past 5 years), and Hepatitis B series (or waiver) 2. Mantoux test or chest x-ray within the last 12 months (annual Mantoux tests required) 3. An annual flu shot is highly recommended.
 8. A signed Authorization to Use and Disclose Health Information release form;
 9. CPR for health care providers certification (American Heart Association preferred) prior to beginning clinical experiences. CPR certification must be maintained for all clinical experiences;
- C. All qualified first-year students with a CGPA of 2.70 or greater who meet the above requirements are assured a place in the BSN nursing sequence.
 - D. Pre-admission testing will be offered to academically at-risk students before they begin the nursing sequence. The extent of the testing will be based on the student's academic needs.
 - E. The student will receive official written notification of admission status from the nursing department.
 - F. The department of nursing recommends that all nursing students hold a CNA certificate prior to NUR220, Nursing and Shalom.

Northwestern College does not discriminate on the basis of race, color, national origin, sex, age or handicap in admission to the nursing program.

Admission criteria do not discriminate against persons with disabling conditions except that all applicants for admission to the nursing major must meet minimum standards to provide safe nursing care.

The following general abilities have been identified at Northwestern College as necessary to meet the standard to provide safe nursing care. The following general abilities have been identified at Northwestern College as necessary to meet the standard to provide safe nursing care:

1. The student must possess the functional use of sense of sight, touch, hearing and smell.
2. He/she must possess a sense of equilibrium along with sufficient motor function to carry out activities required in nursing.
3. The student must possess the ability to perform the assessment and intervention activities required in providing safe nursing care.

These general abilities will be required to achieve the outcomes of nursing courses and the Bachelor of Science degree in nursing program outcomes. They will be evaluated by the faculty throughout the program. Appropriate auxiliary aids and services for persons with impaired sensory, physical or speaking abilities will be provided unless providing the same would fundamentally alter the course or program or would result in an undue burden for Northwestern College.

II. Transfer Policies

- A. The department of nursing follows all transfer/previous preparations policies found in the Northwestern College catalog.
- B. The department of nursing may accept nursing credits earned at another accredited college or university. Transfer credits are recorded with no grade or honor points assigned. Courses not considered for transfer credit are those in which the grade was an incomplete, a withdrawal, less than a C, or the course was taken as audit.
- C. The department of nursing will accept transfer credit from a CCNE or NLNAC accredited program based upon evaluation and approval by the nursing faculty.

- D. The department of nursing will accept a statistics course for the required MAT208, provided it covers the same breadth and depth of content.
- E. Transfer nursing students who have successfully completed a 3- or 4-semester hour lifespan human development course need to complete PSY225, Developmental Psychology: Adulthood; but not PSY221, Developmental Psychology: Childhood.
- F. Northwestern College may award blanket elective credit for a CNA course completed at regionally accredited institutions with a grade "C" or better.
- G. The chairperson of the department of nursing evaluates transcripts of transfer students and can grant departmental approval for cognate courses. Official Northwestern College approval for all transfer courses is at the discretion of the registrar.

III. Progression and Retention Policies

- A. Dishonesty, cheating or plagiarism shall result in an automatic failure of the course.
- B. A GPA of 2.70 on a 4.00 scale must be maintained for retention, progression and graduation. A grade of C or above must be attained in all cognate and nursing courses. The program outcomes of the curriculum shall be the basis for evaluating student achievement in each course of study. Each course carrying clinical credit includes learning experiences in the classroom, as well as in the clinical laboratory and/or off-campus clinical setting. The department of nursing grading scale is used for nursing courses (see below). The student must earn an average examination score of at least 75%. The clinical portion of the course is graded on a pass/fail basis. A student who is functioning below the C level in theory or is at risk for failing in clinical will receive an academic alert and he/she must meet with their advisor to develop a written academic success plan.
- C. Students who fail to maintain a 2.70 CGPA will be placed on department of nursing academic probation. The student's CGPA will be reviewed at the end of each semester and students who do not meet the 2.70 CGPA will be notified in writing that they are being placed on probation by the department of nursing. If a nursing student is placed on departmental probation, within one month after receiving the probation letter, the student must meet with the chair of the nursing department and academic adviser to develop a written academic success plan. Students must have a CGPA of 2.70 before beginning the junior and senior nursing course sequence. Students may only be on departmental probation for one semester before stopping-out of the major. They may re-apply for admission once their CGPA is 2.70 or greater. They will be re-admitted on a space available basis.
- D. Students must achieve a C in the theory portion and pass in the clinical portion of a nursing course in order to receive a C or better in the course.
- E. Failure to successfully complete the clinical component of any nursing course constitutes failure in the course.
- F. Students who fail to obtain a C in a nursing course shall not be allowed to progress to a higher level nursing course which has a prerequisite the course in which a C was not received.
- G. As students register for nursing courses, pre-requisites must be completed by the first class period of each subsequent course. If not, the student will be dropped from the class by the professor.
- H. Because some courses are taught sequentially, a period of one year may lapse before re-enrollment is possible.
- I. Students who fail to attain a C in a nursing course are permitted to repeat the course only one time. Failure to attain a C in a nursing course when taken a second time shall constitute dismissal from the nursing major.
- J. Junior-level courses (numbered 300) must be taken prior to senior-level clinical courses (numbered 400).
- K. Prior to enrolling in senior-level nursing courses, the following Integrative General Education courses or cognates must be completed by BSN students: KIN370, Nutrition; PHI214, Contemporary Moral Issues and SOC101, Principles of Sociology.
- L. MAT208, Biostatistics must be completed prior to enrolling in NUR420, Nursing Science and Informatics.
- M. Upper division nursing courses can be accepted for transfer only with approval of the nursing faculty.
- N. The student has the right to appeal decisions on any of the above matters by following the department of nursing and Northwestern College academic appeal process.
- O. Any student being placed on departmental probation or being dismissed from the nursing program shall receive written notification. All students who withdrawal from the pre-nursing or nursing sequence, must complete the program withdrawal form.

- P. All nursing students will be assessed using standardized nationally-normed exams. Students will be responsible for the costs associated with test administration (funded by the nursing program deposit). All such exams will be reflected in the final course grade and/or a specific minimum score may be required to pass the course and progress to the next level of nursing courses.

Nursing Program Grading Scale

A	95 - 100	C+	79 - 81
A-	92 - 94	C	75 - 78
B+	89 - 91	D+	72 - 74
B	85 - 88	D	68 - 71
B-	82 - 84	F	00 - 67

IV. Degree Completion Policy

The BSN is designed to be completed in a typical 8-semester sequence including all course work and clinical experiences. A 5-year BSN plan of study is also available. Students must complete the requirements for the BSN degree within 6 years of enrolling in NUR 220, Nursing and Shalom.

Nursing Major

Requirements:

- NUR 220 - Nursing and Shalom
- NUR 260 - Fundamentals of Nursing
- NUR 280 - Lifespan Health Assessment
- NUR 290 - Promoting Shalom with Older Adults
- NUR 320 - Promoting Shalom with Ill Clients
- NUR 350 - Promoting Shalom with Cross-cultural Populations
- NUR 360 - Promoting Shalom with the Childbearing Family
- NUR 380 - Promoting Shalom and Mental Health
- NUR 420 - Nursing Science and Informatics
- NUR 430 - Promoting Shalom with Children and Adolescents
- NUR 440 - Promoting Shalom With Diverse Populations
- NUR 460 - Nursing Leadership and Clinical Scholarship
- NUR 480 - Promoting Shalom With Critically Ill Clients
- NUR 490 - Living Shalom

Cognate requirements:

- BIO 121 - Introduction to Human Anatomy
- BIO 122 - Introduction to Human Physiology
- BIO 203 - Microbiology
- BIO 320 - Pharmacology
- BIO 360 - Pathophysiology
- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- KIN 370 - Nutrition for Health Care Professions
- MAT 208 - Biostatistics
- PHI 214 - Contemporary Moral Issues
- PSY 221 - Developmental Psychology: Childhood
- PSY 225 - Developmental Psychology: Adulthood
- PSY 360 - Psychopathology
- SOC 101 - Principles of Sociology

Total credits required: 102

RN to BSN Completion Option

Previously earned academic credits may be applied to the B.S.N., and validation of prior learning occurs according to the appropriate option of the Iowa Articulation Plan for Nursing Education (http://nursing.iowa.gov/nursing_ed/articulation_plan.html). Prior to application to the nursing major, students must present evidence of a license to practice as a Registered Nurse and content from college course work or credit* by examination equivalent (CLEP for non-nursing courses or ACT-PEP tests for nursing courses) in each of the following areas:

Nursing prerequisites:

- NUR 260 - Fundamentals of Nursing
- NUR 290 - Promoting Shalom with Older Adults
- NUR 320 - Promoting Shalom with Ill Clients
- NUR 360 - Promoting Shalom with the Childbearing Family
- NUR 380 - Promoting Shalom and Mental Health
- NUR 430 - Promoting Shalom with Children and Adolescents
- NUR 480 - Promoting Shalom With Critically Ill Clients

Cognate prerequisites:

- BIO 121 - Introduction to Human Anatomy
- BIO 122 - Introduction to Human Physiology
- BIO 203 - Microbiology
- BIO 320 - Pharmacology
- ENG 184 - College Writing
- KIN 370 - Nutrition for Health Care Professions
- PSY 221 - Developmental Psychology: Childhood
- PSY 225 - Developmental Psychology: Adulthood
- PSY 360 - Psychopathology

*Note:

Based on the six-year limit for transferring courses from ADN degree for Iowa Articulation Plan 1. Articulation Option 4 provides an opportunity for students who graduated from their ADN degree/diploma **more than 6 years ago to progress into RN to BSN Completion Option.**

Nursing requirements (240 hours of clinical experience):

Upon matriculation into the Nursing major, students are required to complete the following courses:

- NUR 280 - Lifespan Health Assessment
- NUR 310 - Shalom and Professional Nursing Practice
- NUR 350 - Promoting Shalom with Cross-cultural Populations
- NUR 420 - Nursing Science and Informatics
- NUR 440 - Promoting Shalom With Diverse Populations
- NUR 460 - Nursing Leadership and Clinical Scholarship
- NUR 490 - Living Shalom

Cognate requirements:

- BIO 360 - Pathophysiology
- CHE 102 - College Chemistry
- MAT 208 - Biostatistics
- PHI 214 - Contemporary Moral Issues
- SOC 101 - Principles of Sociology

General education requirements:

(Based on students holding an earned college degree)

- Biblical and Theological Studies (4 credits)

- History, Literature or Philosophy (6-8 credits)
- Language or Cross Cultural (3-6 credits)
- Fine Arts (3-4 credits)
- Elective credits as needed to meet the minimum 124 credit requirement for graduation

Total credits required: 124-133

Health-Related Service-Learning Mission Requirement and E-Portfolio

All nursing majors are required to complete:

- 840 hours of clinical;
- An electronic portfolio including the BSN program's philosophy, conceptual framework, program outcomes, and capstone programs across the curriculum and the student's associated reflection;
- Oral and written communication competencies;
- The health-related mission/service experience and associated cross-cultural portfolio (see option 1 and 2 as follows).

Option 1: Complete NUR350 and the nursing related GEN350 Shalom and Cross-Cultural Populations course or any GEN350 approved by the Department of Nursing. BSN students will also need to submit a cross-cultural portfolio. The department's approval of other GEN350's will be based on such a course meeting the related program outcomes (relationship with diverse others, ethics/social justice & shalom). Students will be allowed to take the NUR350/GEN350 sequence as either sophomores or juniors. Non-nursing students will be welcomed in the nursing-related GEN350 on a space available basis.

Option 2: Students will complete NUR350, a cross-cultural course and a service/mission experience approved by the Department of Nursing based on such a service/mission experience meeting the related program outcomes. Students will also be required to submit a cross-cultural portfolio.

Note:

Nursing course semester credits reflect lecture and clinical hours. A grade of C or above must be attained in all cognate and nursing courses. It is recommended that students complete NUR160, Nursing: Discerning Your Vocation.

Philosophy

www.nwciowa.edu/philosophy

Philosophy struggles with the questions which thoughtful human beings have been asking for thousands of years: What does it mean to be human? How should we live? How can we justify our deepest beliefs and attitudes? Stated simply, philosophy aims at clear, consistent and comprehensive answers to these and other important questions. It suggests a way of thinking and acting based on a set of carefully worked out attitudes and convictions. In short, philosophy helps you develop a coherent world view consistent with your fundamental beliefs.

Studying philosophy will help you understand the world and our place in it. And because philosophy emphasizes careful reasoning about complex issues, it will help you develop skills which are important in all areas of life: problem-solving, communication, writing, persuasive powers and research skills.

In the context of the Christian liberal arts college, philosophy is the search for all truth in the light of God's truth. It is dedicated to the aim of loving God with the mind as well as with the heart. It seeks to gain a clearer understanding of the implications of Christian faith for every aspect of thinking and living. The philosophy faculty believe that the working out of a Christian philosophy of life is the fundamental objective for a student at a Christian liberal arts college. Therefore, the philosophy faculty invite students to join them in the search for truth and in their efforts to provide mature leadership for the Christian community.

Philosophy Major

Requirements:

- Philosophy electives: 12 credits
- PHI 202 - Logic
- PHI 333 - Philosophy and Christianity
- PHI 450 - Senior Thesis

Choose one course:

- PHI 200 - Introduction to Ethics
- PHI 214 - Contemporary Moral Issues

Choose two courses:

- PHI 225 - Ancient Greek Philosophy
- PHI 226 - Medieval Philosophy
- PHI 227 - Modern Philosophy
- PHI 229 - Twentieth-Century Philosophy

Total credits required: 34

Note:

Majors are required to take at least 8 credits of 300-level (and above) in elective courses.

Applied Ethics Minor

Requirements:

- BUS 218 - Business Ethics
- PHI 214 - Contemporary Moral Issues
- PSC 320 - Christians and the Political Order
- REL 290 - Christian Witness and Community Development

Choose ten credits:

- BIO 201 - Bioethics
- CSC 450 - Value Issues in Computing
- PHI 200 - Introduction to Ethics
- PHI 210x - Introduction to Political Philosophy
- PHI 355 - Topics in Ethics
- PSC 220 - Politics and Public Policy
- PSC 225 - Introduction to Law
- PSC 330 - Topics in International Problems
- REL 260 - Christian Ethics
- SOC 202 - Social Problems
- SOC 303 - The Criminal Justice System

Total credits required: 24

Philosophy Minor

Requirements:

- Philosophy electives: 12 credits
- PHI 202 - Logic

Choose one course:

- PHI 200 - Introduction to Ethics
- PHI 214 - Contemporary Moral Issues

Choose one course:

- PHI 225 - Ancient Greek Philosophy
- PHI 226 - Medieval Philosophy
- PHI 227 - Modern Philosophy

- PHI 229 - Twentieth-Century Philosophy

Total credits required: 24

Physics

www.nwciowa.edu/physics

Physics has long been a liberal arts field of study. The physics minor is specifically designed for the student who plans to teach high school physics. At the same time, it is a component of a liberal arts education. The courses within this minor, along with the completion of a chemistry major, prepare the student to take physics course work on the upper-undergraduate level and graduate courses that lead to a master's degree in the teaching of physical science. Since a physics/chemistry combination is the combination most common for teachers who teach physics in Iowa, this minor especially provides a good preparation for the student who chooses this minor in conjunction with a chemistry major.

Mathematics is important in the study of physics as physical concepts are usually formulated mathematically. The study of physics allows for a wide application of the mathematics learned by students. A student majoring in mathematics, preparing to teach, recognizing that the second most common combination for teachers who teach physics in Iowa is mathematics/physics, may be interested in making course work in physics a part of his/her program of study.

Physics Minor

Requirements:

- Physics electives: 8 credits*
- PHY 211 - Classical Physics I
- PHY 212 - Classical Physics II
- PHY 370 - Modern Physics

Total credits required: 20

Note:

* Elective courses at 200-level (and above).

Physics Teaching Minor

(Satisfies state secondary teaching endorsement requirements in physics. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Physics electives: 12 credits*
- PHY 211 - Classical Physics I
- PHY 212 - Classical Physics II
- PHY 370 - Modern Physics

Total credits required: 24

Note:

* Elective courses at 200-level (and above).

Alternative Secondary Teaching Endorsement Program in Physics

Requirements:

- Physics electives: 3 credits*
- Related natural science courses: 15 credits**
- PHY 211 - Classical Physics I
- PHY 212 - Classical Physics II
- PHY 370 - Modern Physics

Total credits required: 30

Note:

* Elective courses at 200-level (and above).

**Related courses may be taken from biology or chemistry. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in physics).

Political Science

www.nwciowa.edu/polsci

Government, according to the Bible, is intended to restrain evil, secure justice and promote order in society.

The political science department strives to understand governments and political phenomena as well as discover what a just and stable political system might look like.

The goal of this department is to provide a consciously Christian political science education which is academically sound and firmly grounded in an understanding of government and politics.

The courses offered by the department afford the student the opportunity to explore many dimensions of government, politics, and policy in the United States, relations between nations, issues of global importance, and different political systems of several nations.

Courses in political science help all students prepare to assume their responsibilities and rights as Christian citizens. A broader study of political science prepares students for careers in public service, law, journalism, politics, teaching and for advanced work at the graduate level.

Political Science Major

Requirements:

- PSC 101 - American National Government
 - PSC 105 - Political Ideologies
 - PSC 310x - History of Political Thought
 - PSC 320 - Christians and the Political Order
- Political science electives: 10 credits

Choose one course:

- PSC 220 - Politics and Public Policy
- PSC 225 - Introduction to Law

Choose one course:

- PSC 230 - International Relations
- PSC 235 - Comparative Politics

Choose one course:

- PSC 330 - Topics in International Problems
- PSC 340 - Topics in American Politics and Institutions

Cognate requirements:

Choose one sequence:

- ECO 101 - Survey of Economics
OR
- ECO 213 - Principles of Microeconomics

- ECO 214 - Principles of Macroeconomics

Total credits required: 40-45

Note:

*Political science majors who wish to receive their secondary education endorsement must take 24 credit hours of course work with an American politics emphasis.

Political Science Minor

(Satisfies state secondary teaching endorsement requirements in American government, if all elective hours are in classes designated American politics. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Political science electives: 16 credits
- PSC 310x - History of Political Thought
- PSC 320 - Christians and the Political Order

Choose one course:

- PSC 101 - American National Government
- PSC 105 - Political Ideologies

Total credits required: 28

Alternative Secondary Teaching Endorsement Program in American Government

Requirements:

- Political science electives in American politics: 6-8 credits
- Related social science courses: 10 credits *
- PSC 201 - State and Local Government

Choose one course:

- PSC 101 - American National Government
- PSC 105 - Political Ideologies

Choose one course:

- PSC 220 - Politics and Public Policy
- PSC 225 - Introduction to Law

Choose one course:

- PSC 230 - International Relations
- PSC 235 - Comparative Politics

Total credits required: 30-32

Note:

*Related courses may be taken from economics, American history, world history, psychology or sociology. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in American government).

Psychology

www.nwciowa.edu/psychology

Psychology is the scientific study of behavior and mental processes. Psychologists study the very essence of being human, such as how we think and learn, how we develop, and how we relate to others. Our psychological functioning is understood given our biological embodiment and the social world in which we live. At Northwestern, we take a scientifically rigorous approach to psychological inquiry and intentionally integrate our faith with the field of psychology. The insights of psychology are applied to areas critical to the human condition, ranging from our mental health, to our vocational pursuits, to our Christian experience.

Psychology majors have numerous vocational options: research for private or educational institutions, or government agencies; person-related areas such as business management, sales and personnel; areas such as advertising, public opinion measurement, and job analysis or improvement; and areas of mental health, counseling and guidance, and community and social services.

Psychology Major

Requirements:

- PSY 111 - General Psychology
- PSY 215 - Research Design and Introductory Statistics
- PSY 216 - Research Design and Advanced Statistics
- PSY 406 - Psychology Research Lab

Choose twelve credits:

- PSY 214x - Social Psychology
- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood
- PSY 260 - Psychology of Personality
- PSY 360 - Psychopathology
- PSY 390 - Psychology Seminar
- PSY 402 - Introduction to Clinical Psychology

Choose one course:

- BIO 340 - Neuroscience
- PSY 315 - Learning and Cognition
- PSY 319 - Motivation and Emotion

Choose one course:

- PSY 405 - History and Systems of Psychology
- PSY 418 - Christ and Psychology

Cognate requirements:

Choose one course:

- BIO 102 - Human Anatomy and Physiology
- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Choose one course:

- PHI 341x - Philosophy of Social Science
- PHI 342 - Philosophy of Natural Science

Total credits required: 44

Developmental Psychology Minor

(Satisfies state secondary teaching endorsement requirements in psychology. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Psychology electives: 4 credits*
- PSY 111 - General Psychology
- PSY 215 - Research Design and Introductory Statistics
- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Total credits required: 24

Notes:

*Note: at least 4 credits must be at the 300-level or above, excluding PSY390 and PSY420.

(Students completing a major in sociology who have completed SOC340, Sociological Research, and who complete a developmental psychology minor may complete a different 4-credit psychology course in place of PSY215-Research Methods I.)

Psychology Minor

(Satisfies state secondary teaching endorsement requirements in psychology. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Psychology electives: 16 credits*
- PSY 111 - General Psychology
- PSY 215 - Research Design and Introductory Statistics

Total credits required: 24

Notes:

*Note: at least 4 credits must be at the 300-level or above, excluding PSY390 and PSY420.

(Students completing a major in sociology who have completed SOC340, Sociological Research, and who complete a psychology minor may complete a different 4-credit psychology course in place of PSY215, Research Methods I.)

Alternative Secondary Teaching Endorsement Program in Psychology

Requirements:

- Related social science courses: 14-16 credits*
- PSY 111 - General Psychology
- PSY 215 - Research Design and Introductory Statistics

Choose four credits:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Choose four credits:

- PSY 216 - Research Design and Advanced Statistics
- PSY 260 - Psychology of Personality
- PSY 315 - Learning and Cognition
- PSY 360 - Psychopathology
- PSY 390 - Psychology Seminar
- PSY 402 - Introduction to Clinical Psychology
- PSY 405 - History and Systems of Psychology

Total credits required: 30-32

Note:

*Related courses may be taken from economics, sociology, American history, world history or political science. If at least 15 credits are taken from one of these related areas then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in psychology).

Religion

www.nwciowa.edu/religion

Religion is about the ultimate issues of life, dealing with three essential concerns: 1) our faith relationship to God; 2) our desire to discover meaning based on that faith relationship; and 3) our effort to live a life that glorifies and enjoys God forever. For this to happen, we need to take the study of religion seriously, and thus scholarly examination is appropriate.

The Religion department grounds students in the academic study of the Christian faith tradition for the purpose of promoting and nurturing reflective Christian life, service, and mission in the world.

1. *By grounding students* we intend to guide them to base their lives and service on the authority of the Christian scriptures and through theological reflection on the Christian faith from a Reformed, evangelical and ecumenical perspective.
2. *By promoting and nurturing reflection* we intend to train students to critically engage the best in the academic study of religion in the areas of biblical studies, theology, church history and missions.
3. *By Christian life and service* we mean to train and equip students to serve God's people, the church and the world by cultivating deeper growth in personal spirituality which is expressed in the inseparable combination of proclaiming and living the gospel of Jesus Christ.

In order to meet these goals, the religion department offers several program options for students.

1. The religion major includes courses in Bible, theology, church history and other practical areas related to service, such as missions. It is designed for students who plan to pursue advanced degrees in seminary or graduate school.
2. The religion minor is an excellent option for students majoring in other disciplines. It allows students to deepen their understanding of the Christian faith and to integrate their faith into their field of study.
3. Religion courses constitute a central component of several other academic programs including the Christian education and ministry major, the mission service career concentration and the youth ministry and adolescent studies minor.
4. Students interested in exploring a variety of disciplines in the humanities yet concentrating in religion can complete a humanities major with religion as their primary discipline.

All students at Northwestern are required to take the Core Religion courses as part of their Integrative General Education requirement. These courses are REL150 Christian Story I: Biblical Tradition and REL250 Christian Story II: Theological Tradition. These courses do not count toward the religion major or minor.

Christian Education and Youth Ministry Major

The major in Christian Education and Youth Ministry is designed to give the student optimal learning in Christian ministry. The student will take required courses in both Christian education and youth ministry and then elect courses that best suit her/his interests. The purpose of the major is to equip students for entry-level positions in a local church or para-church organization in either Christian education or youth ministry. The major also prepares students for graduate studies in one or both of these areas.

At the end of the program, the student will be equipped to examine different areas of ministry, articulate a basic philosophy of educational or youth ministry, and develop her/his abilities in Christian leadership.

To help fulfill this goal, three primary areas of study are required. First, the student will be exposed to the theory and practice of Christian education and youth ministry. Second, the student will be academically and spiritually grounded through a foundation of courses in biblical and theological studies. And, third, the student will be exposed to broader areas that influence ministry through courses in the social sciences. This curriculum is enriched by the Christian liberal arts general education courses offered by Northwestern. The student may also choose to minor in a different area for further enrichment and expertise.

The Christian Education and Youth Ministry major afford opportunities for immediate employment, although graduate studies are encouraged for those seeking a career in either Christian education or youth ministry.

Requirements:

- CEY 210 - Foundational Issues in Christian Education
- CEY 212 - Foundational Issues in Youth Ministry
- CEY 401 - Integrated Field Experience I
- CEY 402 - Integrated Field Experience II

Electives:

- CEY 310 - Leadership Development
- CEY 315 - Philosophy of Adolescent Ministry
- CEY 320 - Teaching and Learning Strategies
- CEY 330 - Special Topics in CE/YM
- CEY 380 - Narrative and Spiritual Formation

Cognate Requirements:

- REL 310 - Christian Spirituality
- REL 328 - Biblical Interpretation and Theology
- REL 382 - Religion in America

Choose one course:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Electives:

- REL 260 - Christian Ethics
- REL 290 - Christian Witness and Community Development
- REL 294 - Introduction to Christian Missions
- REL 317 - Topics in Old Testament Studies
- REL 322 - Topics in New Testament Studies
- REL 370 - Calvin and Calvinism
- REL 375 - Topics in Theology
- REL 385 - Topics in Religion
- REL 390 - World Religions

Total credits required: 44-48

Recommended courses:

Students with Youth Ministry interest should take:

- CEY 315 - Philosophy of Adolescent Ministry
- PSY 224 - Developmental Psychology: Adolescence

Students with Christian Education interest should take:

- CEY 320 - Teaching and Learning Strategies
- CEY 380 - Narrative and Spiritual Formation

Recommended cognates:

- KIN 345 - Outdoor Recreation
- MUS 115 - Music of the Church
- THE 305 - Story and Worship

Religion Major

Requirements:

- REL 472 - Senior Seminar in Religion

Choose at least one course:

- REL 317 - Topics in Old Testament Studies
- REL 322 - Topics in New Testament Studies
- REL 328 - Biblical Interpretation and Theology

Choose at least one course:

- REL 280 - History of Christianity
- REL 384 - Topics in the History of Christianity

Choose at least one course:

- REL 294 - Introduction to Christian Missions
- REL 295 - Intercultural Communication
- REL 392 - Topics in Missiology

Choose at least one course:

- REL 260 - Christian Ethics
- REL 290 - Christian Witness and Community Development
- REL 310 - Christian Spirituality

Choose at least one course:

- REL 370 - Calvin and Calvinism
- REL 375 - Topics in Theology

Choose at least one course:

- REL 382 - Religion in America
- REL 385 - Topics in Religion
- REL 390 - World Religions

Electives: 8-18 credits

Take any combination of additional REL, HEB, or GRE courses; excluding REL150 and REL250. Only ten credits of HEB and GRE can be taken toward the major.

Total credits required: 36

Christian Community Development Minor

Christian community development holistically restores under-resourced communities through local Christian engagement. This integrative and interdisciplinary minor equips Christians to bear witness and do justice by using critical analysis of social, political, economic, and spiritual poverty in order to holistically develop communities towards self-sufficiency and spiritual renewal. Developing communities, beyond mere relief, involves relocation, living in a community in solidarity with those one serves; it involves reconciliation between both God and other human beings, including racial reconciliation, thus it integrates evangelism and justice; and finally it involves redistributing resources, capital, and power in the social, political, and economic dimensions of human life. Students will participate in a service learning component as part of capstone course REL420: Topics in Christian Community Development.

Student Learning Goals:

1. Students will think biblically, theologically, and inter-disciplinarily about Christian community development, especially in the United States' rural and urban context.
2. Students will gain competency with key interdisciplinary (theological, sociological, political, economic, etc.) concepts and tools useful in the analysis and practice of Christian community development.
3. Students will understand several current theories about the practice of Christian community development in the United States' rural and urban communities.
4. Students will grasp the biblical foundation for and practice of the Christian community development principles of relocation, reconciliation, and redistribution.

Requirements:

- ECO 101 - Survey of Economics *
- PSC 201 - State and Local Government
- REL 290 - Christian Witness and Community Development
- REL 295 - Intercultural Communication
- REL 420 - Topics in Christian Community Development
- SWK 232 - Diverse Populations and Social Justice **
- Christian community development service learning experience (no credit)

Choose one course:

- SOC 202 - Social Problems
- SOC 272 - Selected Topics in Sociology
- SOC 304 - Ethnicity, Power and Identity

Total credits required: 24

Notes:

*Students who have taken ECO213 and ECO214 are exempted from this course requirement.

**Students obtain permission from instructor to waive prerequisites

Semester Program Options: Students may substitute four credits from the Denver Urban Semester, Romania Semester or CCD-Based Chicago Semester (with Religion department approval) for any course in the CCD minor except REL420.

Recommended Courses:

ACC310-Non-Profit Government Accounting
 ECO302-Labor Economics
 HIS241-Tribes, Trolleys and Tractors: Themes in Iowa's History
 PSC260-Human Geography
 REL294-Introduction to Christian Mission

Recommended Immersion Experiences:

CCD internship
 CCD-based Summer of Service
 CCD-based Spring Service Project
 Denver Urban Semester
 Romania Semester
 CCD-based Chicago Semester

Christian Education and Youth Ministry Minor

Requirements:

- CEY 210 - Foundational Issues in Christian Education
- CEY 212 - Foundational Issues in Youth Ministry

Choose sixteen credits:

- CEY 310 - Leadership Development
- CEY 315 - Philosophy of Adolescent Ministry
- CEY 320 - Teaching and Learning Strategies
- CEY 330 - Special Topics in CE/YM
- CEY 380 - Narrative and Spiritual Formation
- CEY 401 - Integrated Field Experience I
- CEY 402 - Integrated Field Experience II
- REL 310 - Christian Spirituality
- REL 382 - Religion in America
- REL 385 - Topics in Religion

Total credits required: 24

Christian Mission Minor

The Christian Mission minor prepares students for intercultural competence in Christian ministry. The program integrates biblical and theological reflection with opportunities for experiential learning. Demographic changes in North America coupled with globalization have enormous implications for how we engage in mission. The minor helps students understand their calling and employ their gifts in loving God and their neighbor through any chosen occupational field.

Requirements:

- REL 290 - Christian Witness and Community Development
- REL 294 - Introduction to Christian Missions
- REL 295 - Intercultural Communication
- REL 390 - World Religions
- REL 392 - Topics in Missiology

Choose eight credits:

- REL 310 - Christian Spirituality
- REL 317 - Topics in Old Testament Studies
- REL 322 - Topics in New Testament Studies
- REL 328 - Biblical Interpretation and Theology
- REL 375 - Topics in Theology
- SOC 290 - Cultural Anthropology

Total credits required: 24

Religion Minor

Requirements:

- REL 260 - Christian Ethics
- REL 280 - History of Christianity
- REL 290 - Christian Witness and Community Development
- REL 294 - Introduction to Christian Missions
- REL 295 - Intercultural Communication
- REL 310 - Christian Spirituality
- REL 317 - Topics in Old Testament Studies
- REL 322 - Topics in New Testament Studies
- REL 328 - Biblical Interpretation and Theology
- REL 370 - Calvin and Calvinism
- REL 375 - Topics in Theology
- REL 382 - Religion in America

- REL 384 - Topics in the History of Christianity
- REL 385 - Topics in Religion
- REL 390 - World Religions
- REL 392 - Topics in Missiology
- REL 472 - Senior Seminar in Religion
- GRE 101 - Elementary Biblical Greek and Culture
- GRE 102 - Elementary Biblical Greek and Culture
- GRE 201 - Intermediate Biblical Greek and Culture
- GRE 202 - Intermediate Biblical Greek and Culture
- HEB 101 - Elementary Biblical Hebrew and Culture
- HEB 102 - Elementary Biblical Hebrew and Culture

Total credits required: 24

Note:

Take any combination of REL courses (excluding REL150 and REL250) to equal 24 credits. Up to eight credits of GRE and HEB may be taken.

Social Work

www.nwciowa.edu/socialwork

"The purpose of the social work profession is to promote human and community well-being. Guided by a person and environment construct, a global perspective, respect for human diversity, and knowledge based on scientific inquiry, social work's purpose is to actualize through its quest for social and economic justice, the prevention of conditions that limit human rights, the elimination of poverty, and the enhancement of the quality of life for all persons." (CSWE, EPAS, 2008)

The social work program at Northwestern prepares students in the generalist perspective for entry-level professional positions and for advanced graduate training in social work. The generalist perspective means that social workers are trained in a holistic-interactionist paradigm for work with individuals, families, groups, organizations and communities. Social Workers work within a distinct value orientation including service, social justice, the dignity and worth of the person, importance of human relationships, integrity, competence, human rights, and scientific inquiry.

Social work students at Northwestern College are equipped for the profession through a curriculum of courses in social work theory and practice built on a broad foundation in the liberal arts and in the social and behavioral sciences. The signature pedagogy for social work is the field practicum experience in a professional setting. "The intent of the field education is to connect the theoretical and conceptual contribution of the classroom with the practical world of the practice setting." (CSWE, EPAS, 2008) The course requirements of the social work program are extensive due to the broad spectrum of knowledge required to become an effective social work practitioner. Northwestern's social work program is accredited by the Council on Social Work Education (since 1986).

The social work faculty is committed to the preparation of graduates who have integrated their faith into all areas of their life: competent professionals, whose integrity is centered in Christ-like compassion and whose spiritual strength enables them to enter with confidence the varied contexts of human need.

Social Work Major

Social work Core Courses

(30 Hours Voluntary Experience)

- SWK 140 - Introduction to Social Work
- SWK 210 - Direct Helping Skills
- SWK 220 - Qualitative Research
- SWK 231 - Human Behavior and the Social Environment (HBSE)
- SWK 232 - Diverse Populations and Social Justice
- SWK 360 - Social Policy and Social Work Advocacy
- SWK 370 - Individual/Family Theory & Practice
- SWK 376 - Group Theory and Practice

- SWK 386 - Community Theory and Practice
- SWK 416 - Fundamental Issues in Social Work
- SWK 418 - Social Work Professional Seminar
- SWK 419 - Social Work Practicum

Cognate requirements:

- BIO 102 - Human Anatomy and Physiology
- ECO 101 - Survey of Economics
- PSC 101 - American National Government
- PSY 111 - General Psychology
- PSY 215 - Research Design and Introductory Statistics
- SOC 101 - Principles of Sociology

Total credits required: 70

Note:

SWK418 and 419 must be taken together during the second semester of the senior year and ordinarily will constitute a full load for that semester. These courses will usually be taken at Northwestern College. SWK370, 376, 386, 416, 418, and 419 are courses open only to social work majors.

Sociology and Anthropology

www.nwciowa.edu/sociology

Sociologists study the social causes and consequences of human behavior, ranging from the intimate family to the angry mob, from crime to religion, from the divisions of race and social class to the shared beliefs of a common culture, from the why and how of social control to movements against oppressive social control, from the why and how of production to problems of inequitable distribution of resources, from abundance and health to poverty and pollution. Few fields have such broad scope and relevance as sociology.

For the student, sociology provides assistance in values, model and tool development for looking at one's self and the world, and generates new ideas for problem-analysis and problem-solving. In addition, it offers a range of research techniques which can be applied to many areas, such as crime and criminal justice, personnel management and business, urban and community planning, the provision of health care, problems of poverty and welfare, student development and Christian ministry.

A sociology major provides numerous career opportunities: teaching in high schools, colleges, and universities; researching for business, government, or research institutes; working in health care and social service programs; working in industry as personnel managers and quality control analysts; working in policy implementation and planning for various communities and agencies; working in the criminal justice system as law enforcement personnel and probation or parole officers; working in urban and community planning. In addition, sociology is a popular major for students planning careers in such professions as law, business, education, urban planning, social work, student development, counseling, politics, public administration and the ministry, with graduate or professional training required or advised in most cases.

The sociology faculty provide opportunities for study of cultures and cultural groups both in North America and abroad. They offer exposure to practicing sociologists in various fields; provide field trips, internships, career guidance; and challenge the student to integrate "book learning" with practical involvement in contemporary social problems.

Cultural anthropology studies what it means to be human by investigating the diverse ways human groups have solved universal problems: how to communicate, approach the sacred, form families, and physically survive. This perspective fosters an understanding of other cultural groups' social structures and the values that motivate them. In addition to traditional research, the techniques and insights of cultural anthropology and cultural studies can be a valuable asset to anyone working directly with people in business, counseling, management, ministry, teaching, development or social service. Our cultural studies minor can be combined with any major and can be completed on-campus or with a semester of studies abroad.

Sociology Major

Requirements:

- Sociology electives: 4 credits
- SOC 101 - Principles of Sociology

- SOC 202 - Social Problems
- SOC 210 - Marriage and Family
- SOC 304 - Ethnicity, Power and Identity
- SOC 309 - Sociology of Gender
- SOC 340 - Sociological Research
- SOC 351 - Ethnographic Research
- SOC 401 - Sociological Theory

Cognate requirements:

Choose one course:

- PSY 111 - General Psychology
- PSY 214x - Social Psychology

Total credits required: 40

Notes:

- During their senior year, a sociology major is required to participate in the departmental assessment program as partial fulfillment of the sociology major.
- Students intending to do graduate work in sociology are urged to take MAT216, Advanced Statistical Methods and SOC341x, Philosophy of Social Science.
- PSY214x cannot double count for both a sociology elective course and the cognate requirement.

Cultural Studies Minor

Requirements:

- SOC 290 - Cultural Anthropology
- SOC 351 - Ethnographic Research

Electives: 16 Credits

- Up to 16 credits from a semester abroad from an accredited institution.
- ENG 225 - Literature of the Developing World
- ENG 386 - The Other America
- GER 202 - Intermediate German Language and Culture
- GEN 316 - Cross-cultural Preparation
- GEN 350 - Topics in Cross-Cultural Studies
- HIS 230 - Issues in Cross-cultural History
- KIN 360 - Sport in Societies
- MUS 320 - World Musics
- PSC 260 - Human Geography
- REL 390 - World Religions
- SOC 304 - Ethnicity, Power and Identity
- SOC 317x - American Indian Societies and Cultures
- SPA 202 - Intermediate Spanish Language and Culture
- SPA 351 - Survey of Hispanic Literature from Spain
- SPA 352 - Survey of Hispanic Literature from the Americas

Total credits required: 24

Note:

After completing the coursework for this minor, students are also required to complete a 2,000 word (minimum) reflection paper. Consult the sociology department for guidelines related to the content, focus, and submission of this paper.

Middle East Studies Minor

The Middle East Studies minor prepares students to engage with the Middle East and the Islamic world, a religion and worldview that will continue to play a critical role in world affairs for the foreseeable future. The minor incorporates a variety of disciplines including history, religion, language and sociology.

Requirements:

Choose one program:

- GEN 310 - Middle East Studies Program
- GEN 354 - Oman Semester

Choose 8 credits:

- HIS 230 - Issues in Cross-Cultural History: Islamic Civilization
- PSC 235 - Comparative Politics
- REL 295 - Intercultural Communication
- REL 390 - World Religions
- SOC 290 - Cultural Anthropology
- SOC 312 - Sociology of Religion

Total Credits Required: 24

Sociology Minor

(Satisfies state secondary teaching endorsement requirements in sociology. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- Sociology electives: 16-18 credits*
- SOC 101 - Principles of Sociology

Choose one course:

- SOC 340 - Sociological Research
- SOC 351 - Ethnographic Research

Total credits required: 26

Notes:

*For students seeking teaching endorsement: SOC202, Social Problems is required; SOC110, Contemporary Marriage and Family Living and SOC304, Minority Groups are strongly recommended.

(Students completing a major in psychology who have completed PSY215, Research Methods I, and who complete a sociology minor may complete any 2- or 4-credit sociology course in place of SOC340, Sociological Research or SOC351, Ethnographic Research.)

Alternative Secondary Teaching Endorsement Program in Sociology

Requirements:

- Sociology electives: 3-6 credits*
- Related social science courses: 15-16 credits**
- SOC 101 - Principles of Sociology
- SOC 202 - Social Problems

Choose one course:

- SOC 340 - Sociological Research
- SOC 351 - Ethnographic Research

Total credits required: 30-32

Notes:

*A total of 15-16 sociology credits is required. It is strongly recommended that sociology electives include SOC110, Contemporary Marriage and Family Living and SOC304, Minority Groups.

** Related courses may be taken from economics, psychology, political science, American history or world history. If at least 15 credits are taken in one of these related areas, then teaching endorsement requirements are satisfied in that second area (in addition to endorsement in sociology).

Theatre and Speech

www.nwciowa.edu/theatre

Our goal is to equip theatre artists for the task of developing their creative gifts for service in the Kingdom of Christ.

The annual theatre season includes four faculty-directed productions and many student productions. The department sponsors guest artists each year and participates in the Kennedy Center/American College Theatre Festival.

The department moved into the new DeWitt Theatre Arts Center in 2004. This state-of-the-art building houses two theatres of equal size (a proscenium theatre and a black box theatre). Scenery, costume and prop shops are also in this building that showcases a department with a national reputation for theatrical excellence. Our fully equipped dance studio is a short walk away in the Bultman Center.

The department also has a national theatre touring ensemble. The ensemble prepares a repertoire of plays to be performed in churches and schools. The ensemble is faculty-directed, with members being selected by auditions at the beginning of the academic year.

Theatre and Speech Major

(Satisfies state secondary teaching endorsement requirements in theatre and speech. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- COM 355 - Organizational Communication
- ENG 297 - The Rhetoric of Persuasion
- ENG 401 - History and Theory of Rhetoric
- THE 101x - Mass Media and Society
- THE 112 - Performance Studies
- THE 114 - Stagecraft
- THE 130 - Introduction to Design
- THE 206 - Playwriting: The One-Act
- THE 215 - Acting
- THE 312 - Directing
- THE 406 - Topics in Dramatic Literature

Choose one course:

- THE 343 - History and Theory I
- THE 344 - History and Theory II

Choose two credits:

- ENG 280 - Shakespeare
- PHI 238 - Philosophy of the Arts
- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 226 - Scene Design
- THE 227 - Introduction to Lighting Design
- THE 230 - Costume Design
- THE 260 - Drama Ministries Ensemble
(2 credit maximum goes toward major)
- THE 305 - Story and Worship
- THE 315 - Acting: Scene Work
- THE 407 - Playwriting: The Full-Length
- THE 465 - Selected Topics in Theatre and Speech

Total credits required: 40

Theatre Major

Requirements:

- THE 112 - Performance Studies
- THE 114 - Stagecraft
- THE 130 - Introduction to Design
- THE 206 - Playwriting: The One-Act
- THE 215 - Acting
- THE 312 - Directing
- THE 343 - History and Theory I
- THE 344 - History and Theory II
- THE 406 - Topics in Dramatic Literature

Choose four credits:

- THE 226 - Scene Design
- THE 227 - Introduction to Lighting Design
- THE 230 - Costume Design

Choose four credits:

- ENG 280 - Shakespeare
- PHI 238 - Philosophy of the Arts
- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 260 - Drama Ministries Ensemble
(2 credit maximum goes toward major)
- THE 305 - Story and Worship
- THE 315 - Acting: Scene Work
- THE 328 - Advanced Lighting Design
- THE 365x - Acting for the Camera
- THE 407 - Playwriting: The Full-Length
- THE 465 - Selected Topics in Theatre and Speech

Total credits required: 36

Arts Administration Minor

The Arts Administration Minor requires students to major in a fine arts program (Art, Music or Theatre). This minor builds on a student's existing artistic base earned from their fine arts major. It is intended to equip students with the direction and practical skills needed to help art flourish in the larger culture. Possible applications might include entry-level administrative positions in theatre companies, art galleries, symphonies and other community-based arts organizations.

Requirements:

- ACC 215 - Principles of Financial Accounting
- ACC 310 - Non-Profit and Governmental Accounting
- BUS 200 - Principles of Marketing
- COM 185 - Media Writing
- COM 230 - Principles of Public Relations
- COM 263 - Layout and Design
- CSC 110 - Advanced Spreadsheets

Internship: 4 credits

- ART 417 - Internship
- MUS 417 - Internship
- THE 417 - Internship

Choose one course:

- BUS 305 - Organizational Behavior and Theory
- COM 332 - Social Foundations of Advertising

Total credits required: 27

Note:

Students must also complete a major in Art, Music or Theatre. The internship must be for a minimum of 4 credits.

Theatre and Speech Minor

(Satisfies state secondary teaching endorsement requirements in theatre and speech. Students must also complete the requirements of the secondary education program. See the education department listing for requirements.)

Requirements:

- ENG 297 - The Rhetoric of Persuasion
- THE 101x - Mass Media and Society
- THE 112 - Performance Studies
- THE 114 - Stagecraft
- THE 312 - Directing

Choose eight credits:

- ENG 280 - Shakespeare
- PHI 238 - Philosophy of the Arts
- THE 130 - Introduction to Design
- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 215 - Acting
- THE 226 - Scene Design
- THE 227 - Introduction to Lighting Design
- THE 230 - Costume Design
- THE 260 - Drama Ministries Ensemble
- THE 305 - Story and Worship
- THE 315 - Acting: Scene Work

- THE 328 - Advanced Lighting Design
- THE 343 - History and Theory I
- THE 344 - History and Theory II
- THE 406 - Topics in Dramatic Literature
- THE 407 - Playwriting: The Full-Length
- THE 465 - Selected Topics in Theatre and Speech

Total credits required: 24

Theatre Minor

Requirements:

- THE 114 - Stagecraft
- THE 130 - Introduction to Design
- THE 215 - Acting
- THE 312 - Directing
- THE 406 - Topics in Dramatic Literature

Choose one course:

- THE 343 - History and Theory I
- THE 344 - History and Theory II

Choose six credits:

- ENG 280 - Shakespeare
- PHI 238 - Philosophy of the Arts
- THE 112 - Performance Studies
- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 206 - Playwriting: The One-Act
- THE 226 - Scene Design
- THE 227 - Introduction to Lighting Design
- THE 230 - Costume Design
- THE 260 - Drama Ministries Ensemble
- THE 305 - Story and Worship
- THE 315 - Acting: Scene Work
- THE 328 - Advanced Lighting Design
- THE 407 - Playwriting: The Full-Length
- THE 465 - Selected Topics in Theatre and Speech

Total credits required: 24

Career concentrations

Each student at Northwestern chooses a liberal arts major. In addition, a student may elect to pursue a career concentration.

A career concentration is a clustering of courses into a coherent program that prepares a student for entry-level employment upon graduation from Northwestern with a B.A. or BSN degree.

All career concentrations have been designed on the basis of consultation with professional leaders in the various potential areas of employment and generally include an off-campus internship during the senior year.

Northwestern offers the following career concentrations:

Christian Theatre Ministries

The career concentration in Christian theatre ministries requires that a student major in theatre at Northwestern. This career concentration prepares a student for work in Christian theatre. This could involve working as a theatre director in a church or working with one of the many professional Christian theatre companies throughout the United States.

An important aspect of the career concentration is the internship experience. Students will be placed according to their particular area of interest. If you desire to work in church theatre, you may choose to intern in either a local congregation or one out of the area. If a Christian theatre group is your preference, Northwestern will help make arrangements with one of the numerous companies.

Required courses:

- Completion of theatre major
- MUS 115 - Music of the Church
- THE 305 - Story and Worship

Choose four credits:

- THE 133 - Ballet
- THE 135 - Jazz Dance
- THE 260 - Drama Ministries Ensemble
- THE 315 - Acting: Scene Work

Choose one course:

- THE 405 - Practicum in Christian Theatre
- THE 417 - Internship

Total credits required beyond major: 13-19

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Computer Science

(for majors in the social or physical sciences)

Inexpensive computer power has made mass communication a reality for the modern world. This process needs professionals in each career/academic discipline who know enough about computers to see the opportunities for computerization in their career/discipline. The career concentration in computer science aims at giving the student breadth of knowledge about the basic fundamentals of computer science.

Required courses:

- CSC 171 - Computer Science I
- CSC 172 - Computer Science II
- CSC 270 - Computer Organization
- MAT 180 - Logic and Discrete Mathematics

Choose two courses:

- CSC 351 - Data Structures
- CSC 381 - Programming Languages
- CSC 420 - Special Topics

Total credits required: 22-23

Criminal Justice

Northwestern's career concentration in criminal justice is designed to assist students in entering an area of expanding need. The need is for professionalization and better prepared personnel in law enforcement, probation, parole, community-based treatment, counseling, rehabilitation, corrections (prisons, reformatories, detention centers, correctional centers), and many other areas. This career concentration is also good preparation for graduate school, providing a knowledge and understanding of theory, social organization, methods and techniques. An internship of one semester assists in practical application.

Related job titles include various types of law enforcement officers (sheriff, police, etc.), criminal investigator, state patrol (trooper), criminal analyst, security officer, FBI or IRS agent, community planner, correctional officer, counselor (alcoholism, career, drug abuse, juvenile/adult, handicapped), probation/parole officer, group home/half-way house staff member.

Government officials at all levels are paying more attention to crime and its related social problems. Employment prospects continue to grow, as indicated by the fact that colleges and universities continue to develop new criminal justice programs.

Required courses:

- PSC 225 - Introduction to Law
- SOC 202 - Social Problems
- SOC 218 - Deviance and Social Control
- SOC 303 - The Criminal Justice System
- SOC 307 - Corrections
- SOC 417 - Internship

Choose one course:

- PSC 220 - Politics and Public Policy
- SOC 304 - Ethnicity, Power and Identity

Total credits required: 28

Recommended courses:

- Second year competency in Spanish (3-6 credits)
- KIN 237 - Substance Abuse
- PSC 201 - State and Local Government
- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood
- PSY 360 - Psychopathology
- SOC 101 - Principles of Sociology
- SOC 214x - Social Psychology
- SOC 340 - Sociological Research
- SOC 351 - Ethnographic Research
- SWK 140 - Introduction to Social Work

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Fitness Management

The career concentration in fitness management helps prepare students to enter the commercial fitness industry. The kinesiology core requirements are intended to provide students with the knowledge, skills and experience in exercise assessment and programming, physical fitness activities, and teaching/leadership methods that could be applied in a commercial fitness setting. The business cognate requirements are intended to give students some competencies in marketing, management and accounting.

Required courses:

- BUS 200 - Principles of Marketing

- KIN 125 - Aerobic Activity
- KIN 127 - Weight Training
- KIN 180 - Introduction to Kinesiology
- KIN 215 - Principles of Personal Training
- KIN 229 - Leadership in Sport Management
- KIN 233 - Anatomical Kinesiology
- KIN 234 - Prevention and Care of Athletic Injuries
- KIN 241 - Directed Field Experience in Kinesiology I
- KIN 341 - Directed Field Experience in Kinesiology II
- KIN 417 - Internship

Choose one course:

- KIN 230 - Physiological Adaptations to Exercise
- KIN 325 - Physiology of Exercise

Choose one course:

- KIN 236 - Nutrition for Life
- KIN 370 - Nutrition for Health Care Professions
- KIN 371 - Sports Nutrition

Choose one course:

- KIN 330 - Exercise Testing and Prescription
- KIN 402 - Assessment in Physical Education

Choose:

- Pass first aid competency with current CPR and first aid certification
OR complete:
- KIN 104 - First Aid

Total credits required: 31-36

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Neuroscience and Persons (NAPS)

The career concentration in neuroscience and persons is designed to introduce students to the fascinating study of the nervous system and its relationship to our personhood. The 21st century has been referred to as the “Century of the Brain,” a time during which tremendous effort and career opportunities will occur as we try to understand the nervous system and treat its numerous health-related disorders. The NAPs program prepares students for graduate school, medical school or other professional training in neuroscience or its many contributing and cognate areas such as biology, psychology and health-related fields generally. This interdisciplinary program will prepare students for careers in basic and applied research and teaching (e.g., in pharmaceutical, biotechnology and academic settings), as well as careers in traditional health-care fields (e.g., medicine, nursing, psychology, counseling and all areas of mental health). There are two options: the standard program provides a basic background for fields related to neuroscience and persons generally, whereas the neuroscience concentration provides a more intensive science background preparing the student for entrance to graduate or post-graduate professional programs in neuroscience and medically related fields.

Neuroscience and persons: standard program

Required courses:

- Completion of a biology, chemistry, computer science, philosophy or psychology major (other majors with approval)
- BIO 340 - Neuroscience
- BIO 345 - Neuroscience and Persons Seminar (NAPs)

- PSY 111 - General Psychology
- PSY 315 - Learning and Cognition
- PSY 360 - Psychopathology

Choose one option:

Option 1:

- BIO 102 - Human Anatomy and Physiology

Option 2*:

- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Choose one course**:

- PHI 204 - Mind, Knowledge and Reality
- PHI 240 - Minds and Machines

Capstone research experience - choose one:

- Approved off-campus summer undergraduate research experience
- PSY 398 - Directed Study
or BIO, CHE, CSC, PHI 398
- PSY 406 - Psychology Research Lab
(psychology majors)
- PSY 499 - Honors Research
or BIO, CHE, CSC, PHI 499

Total credits required beyond major: 26-34

Notes:

*Recommended option

**Both courses recommended

Neuroscience and persons: neuroscience concentration

Required courses:

- Completion of a biology, chemistry, computer science, philosophy or psychology major (other majors with approval)
- BIO 340 - Neuroscience
- BIO 345 - Neuroscience and Persons Seminar (NAPs)
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- PSY 111 - General Psychology

Choose one option:

Option 1:

- BIO 102 - Human Anatomy and Physiology

Option 2*:

- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Choose two courses:

- BIO 202 - Genetics
- BIO 307 - Histology
- BIO 310 - Cell Biology
- BIO 320 - Pharmacology

- BIO 326x - Biochemistry:Proteins and Metabolism
- BIO 327 - Biochemistry: Molecular Genetics

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry *
- CHE 112 - General Chemistry

Choose one course**:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 116 - Statistics for the Natural and Social Sciences

Choose one course**:

- PHI 204 - Mind, Knowledge and Reality
- PHI 240 - Minds and Machines

Choose one course**:

- PSY 315 - Learning and Cognition
- PSY 360 - Psychopathology

Capstone research experience - choose one:

- Approved off-campus summer undergraduate research experience
- PSY 398 - Directed Study
- or BIO, CHE, CSC, PHI 398
- PSY 406 - Psychology Research Lab
- (psychology majors)
- PSY 499 - Honors Research
- or BIO, CHE, CSC, PHI 499

Total credits required beyond major: 49-57

Notes:

*Recommended option

**Both courses recommended

Recommended courses:

- Special topics courses in religion and sociology
- PHI 342 - Philosophy of Natural Science
- PHY 213 - Electronics and Instrumentation
- PSY 215 - Research Design and Introductory Statistics
- PSY 216 - Research Design and Advanced Statistics
- PSY 418 - Christ and Psychology

Sport Management

The career concentration in sport management helps prepare students for a wide variety of careers in sport-related positions. The sport management career concentration is interdisciplinary and has required course work from the disciplines of Kinesiology, Accounting, Business, Economics, Mathematics and Computer Science. The courses will provide foundational and applied areas of study, in addition to practical experiences and internships. This career concentration will complement the educational preparation of students majoring in Business Administration and Public Relations who desire employment in the sports industry.

Required courses:

- ACC 215 - Principles of Financial Accounting
- BUS 200 - Principles of Marketing
- CSC 102 - Business Computing
- KIN 182 - Introduction to Sport Management
- KIN 241 - Directed Field Experience in Kinesiology I
- KIN 229 - Leadership in Sport Management
- KIN 320 - Legal and Ethical Issues in Sport
- KIN 341 - Directed Field Experience in Kinesiology II
- KIN 360 - Sport in Societies
- KIN 415 - Seminar in Sport Management
- KIN 417 - Internship

Total credits required: 30

Note:

Internships range from 2-12 credits. The maximum credits applied to the major is noted under the 417 course designation.

Strength and Conditioning

The career concentration in Strength and Conditioning prepares students to be effective Strength and Conditioning specialists and to also be prepared for graduate work in this area. The curriculum design is intended to supplement the majors of Exercise Science and Athletic Training and will provide students with the knowledge, skills, and experience specifically needed by Strength and Conditioning specialists beyond that which is acquired in the respective majors. The curriculum is intended to provide knowledge and experience specific to coaching/leadership, exercise and performance testing, program design and implementation, professionalism, and facility and personnel management.

Required courses:

- KIN 125 - Aerobic Activity
- KIN 127 - Weight Training
- KIN 215 - Principles of Personal Training
- KIN 229 - Leadership in Sport Management
- KIN 250 - Techniques in Resistance Training
- KIN 281 - Practicum in Strength and Conditioning I
- KIN 333 - Biomechanics
- KIN 381 - Practicum in Strength and Conditioning II
- KIN 393 - Advanced Topics in Strength and Conditioning
- KIN 403 - Motor Learning
- KIN 417 - Internship
- KIN 481 - Practicum in Strength and Conditioning III

Total credits required: 30

Notes:

It is recommended that students choose to take KIN371, Sport Nutrition, instead of KIN236, Nutrition for Life, or KIN370, Human Nutrition for Health Care Professionals, as a part of their major curriculum.

The entry point into the program is to take KIN281, Practicum in Strength and Conditioning I, which has the following prerequisites:

1. BIO121 and BIO122 series or CHE101 and CHE102 series
2. KIN241 Directed Field Experience or KIN251 Practicum in Athletic Training
3. Permission of the program director

Pre-professional programs

A number of careers require either graduate study beyond the bachelor degree or highly specialized study at another institution after one to three years of liberal arts study at Northwestern. Our pre- professional programs consist of various clusters of courses designed to prepare the student for such advanced study elsewhere.

Students in pre-professional programs are advised to work closely with their advisers and should familiarize themselves with various graduate school catalogs for suggested or required course work in addition to that suggested in Northwestern's pre-professional programs. Completion of a pre-professional program is not indicated on the student's transcript.

Students pursuing pre-professional programs requiring the B.A. degree must complete all Integrative General Education requirements for the B.A. degree (see the Integrative General Education section of this catalog). If a student is pursuing a pre-professional program that will lead to transfer to another institution after one to three years of study at Northwestern, then it is recommended that, as electives and multiple course options allow, the student choose the following Integrative General Education courses for his/ her program at Northwestern (based on consultation with his/her faculty adviser). These Integrative General Education courses are intended to provide each student with a foundation in Christian liberal arts education, including a biblically based values orientation that will guide the student's later professional studies and his/her professional and personal life.

Northwestern offers the following pre-professional programs:

Art Therapy

Art therapy is a relatively new branch of the expressive therapies branch. The American Art Therapy Association sets standards and grants certification. Usually a graduate degree in art therapy (a two-year program) and about one year's working experience is required after graduation from Northwestern. On the undergraduate level a student should major in art. A double major of art and psychology is highly recommended.

Employment possibilities include positions in mental health hospitals, geriatric institutions, special education programs, prisons, detention facilities and veterans' hospitals. An art therapist can aid psychiatrists and psychologists in diagnostic work, treatments, therapeutics, and social interactionary procedures which are extremely beneficial to the patient's mental health.

Recommended courses:

- Completion of art major (36 credits)
- PSY 111 - General Psychology
- PSY 260 - Psychology of Personality
- PSY 360 - Psychopathology
- PSY 402 - Introduction to Clinical Psychology

Choose four credits:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Total credits recommended beyond major: 20

Chiropractic

Chiropractic is a vital part of today's health care system. The need for qualified chiropractors continues to grow with the public's increased awareness of the benefits of chiropractic health care.

Students in Northwestern's pre-chiropractic program must complete a minimum of 90 credits, including the recommended courses indicated below. A large percentage of students accepted by schools of chiropractic have earned a B.A. degree.

Recommended courses:

- Courses in writing (6 credits)
- Humanities electives (16 credits)
- Psychology elective (4 credits)
- Electives (32 credits)
- CHE 111 - General Chemistry

- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Choose two courses:

- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 203 - Microbiology
- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology
- BIO 310 - Cell Biology
- BIO 326x - Biochemistry: Proteins and Metabolism

Total credits recommended: 90

Dentistry

Northwestern's pre-dental program prepares the student for entrance into a college of dentistry and an eventual career as a doctor of dentistry. Students may be accepted by a college of dentistry after three years of college (minimum of 90-semester hours), but the majority of those accepted have earned a B.A. degree. Specific course requirements vary somewhat between colleges of dentistry in different states. Students should carefully target a particular school(s) and design their curriculum accordingly.

Recommended courses:

- Courses in writing (6 credits)
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- PHY 111 - General Physics I
- PHY 112 - General Physics II

A minimum of one course in Biochemistry:

- BIO 326x - Biochemistry: Proteins and Metabolism
- CHE 326x - Biochemistry: Proteins and Metabolism
- BIO 327 - Biochemistry: Molecular Genetics

Total credits recommended: 42

Engineering

Northwestern's pre-engineering program is designed for the students who want to begin their college experience at a liberal arts college and then, after two or three years, transfer to a department of engineering at a university to complete the sequence of technical courses required for a degree in a specific field of engineering.

Northwestern College-University of Minnesota dual-degree program

A dual degree program, leading to a bachelors in an area of mathematics or physical science from Northwestern College and a bachelor's degree in a branch of engineering from the University of Minnesota, is available to qualified Northwestern College students. This dual degree program will require at least three years of attendance at Northwestern College followed by two or more years of attendance at the University of Minnesota.

Northwestern students will be selected for entrance into the College of Science & Engineering based on the calculation of a cumulative grade point average using all grades including repeats. The minimum grade point average for admission will vary by major field and will be communicated to Northwestern College at the beginning of each academic year. No admission requirement will be greater than a 2.8 cumulative grade point average.

In the first three years of work taken at Northwestern College, students must complete appropriate courses in chemistry, computer science, mathematics, and physics for the sought after degrees at both schools. The College of Science & Engineering will work with Northwestern College advisors to recommend appropriate courses for each of its engineering programs. Attendance during the summer at the University of Minnesota may be recommended in some cases. This would allow Northwestern students to pick up courses unavailable and to minimize the length of their program.

Dual degree students should also take Integrative General Education courses to meet the graduation requirements at Northwestern College. However, dual degree students will not need to meet the liberal education requirements for the University of Minnesota.

Courses, passed with a grade of C- or better, will be transferred to the University of Minnesota transcript as credit for equivalent courses, even though they may not be required by the engineering curriculum selected by the student.

During the period of time at the University of Minnesota, students will complete the requirements specified in the College of Science & Engineering Bulletin at the time of admission to their engineering degree programs. The coursework, passed with a "C" grade or better, at the University of Minnesota will also be transferred to Northwestern College to complete the requirements for the selected degree.

When transferring to the College of Science & Engineering from Northwestern College, the student is expected to submit applications for admission, reciprocity, housing (if necessary), and financial aid on standard forms. These forms must be submitted in accord with the deadlines published in the current Institute of Technology documents.

Changes in curricula, at both institutions, will be accommodated as they occur. Students will be eligible to participate in commencement ceremonies at both Northwestern College and the College of Science & Engineering.

The College of Science & Engineering commits to report on a regular basis the performance of dual degree students currently enrolled. This will be sent to an appropriate person at Northwestern College.

A second program enables students to receive a bachelor's degree from Northwestern College and also to receive a Master of Engineering degree from the University of Minnesota. This program involves four years at Northwestern College and, typically, two years at the College of Science & Engineering. It may be necessary for students to take several extra courses before proceeding through the graduate curriculum; the number of such courses will vary by major and emphasis. Admission is not guaranteed.

Recruitment of students for this program will be the responsibility Northwestern College with the cooperation of the College of Science & Engineering.

Transfer to Iowa State University or other universities

Students can transfer to other universities for completion of their engineering degree. Such transfer usually occurs after spending two years at Northwestern. Special consideration is given to students who plan to transfer to Iowa State University as the program at Northwestern College is carefully coordinated with the programs in engineering at Iowa State University through the advising process.

Students interested in transferring to a university other than Iowa State University should obtain a catalog from the university of interest. They should then confer with the program director as the second step in the planning process after the first semester registration is completed.

Recommended courses:

- Social science-humanities electives (18 credits)
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CSC 171 - Computer Science I
- ENG 288 - Writing in the Professions
- MAT 112 - Calculus I
- MAT 211 - Calculus II
- MAT 212 - Calculus III
- MAT 312 - Differential Equations
- PHY 211 - Classical Physics I
- PHY 212 - Classical Physics II
- PHY 270 - Classical Dynamics

Total credits recommended: 59

Graphic Design

The pre-graphic design program prepares the art major who wants to apply art in business and industry or to enter a graduate design program. The liberal arts-trained art major is better prepared to perform creatively and move upward in the commercial art world than a student with only technical art school training.

Recommended courses:

- Completion of art major (36 credits)
- ART 164 - Photography I
- ART 220 - Graphic Design I
- ART 230 - Design: Theory and Practice
- ART 320 - Graphic Design II
- COM 101x - Mass Media and Society
- COM 263 - Layout and Design

Total credits recommended beyond major: 21

Law

The pre-law program is designed to introduce students to various areas of law and to prepare them for entry into law school. Students should make arrangements to take the Law School Admission Test very early in their senior year and apply to law schools during that year. Information on the LSAT and on law schools is available from the program director.

There is no prescribed pre-law curriculum, so a variety of majors is appropriate. What is most important is for students to take a range of challenging courses which require them to think critically, reason logically, and speak and write effectively.

Recommended courses:

- BUS 321 - Business Law
- ENG 288 - Writing in the Professions
- ENG 297 - The Rhetoric of Persuasion
- PHI 200 - Introduction to Ethics
- PHI 202 - Logic
- PSC 101 - American National Government
- PSC 225 - Introduction to Law

Total credits recommended: 25

Medicine

Northwestern's pre-medicine program prepares a student for entrance into a medical school and an eventual career as a physician, surgeon or osteopath. Other possibilities include eventual research positions in graduate school, government agencies, state health agencies, industry and in related scientific fields such as physiology, microbiology, genetics or cell and molecular biology. The specific courses that will meet the admissions requirements of most of the American medical schools are as follows:

Recommended courses:

- Advanced biology elective (Human Physiology preferred) (4 credits)
- BIO 116 - General Biology: Ecology and Organismal Biology
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I

- MAT 116 - Statistics for the Natural and Social Sciences

Total credits recommended: 35-36

Mortuary Science

Approximately one-half of the states require pre-professional academic credit prior to training received in mortuary science. The maximum required (in approximately one-third of the states) is two years. The state of Iowa requires completion of two years (60-semester hours of academic non-mortuary science credit). Iowa does not require any specific courses that must be taken.

Recommended courses:

- ACC 215 - Principles of Financial Accounting
- ACC 216 - Principles of Managerial Accounting
- ART 105 - Introduction to Studio
- BIO 102 - Human Anatomy and Physiology
- BIO 203 - Microbiology
- BUS 321 - Business Law
- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- ECO 213 - Principles of Microeconomics
- ECO 214 - Principles of Macroeconomics
- MUS 115 - Music of the Church
- PSY 111 - General Psychology
- REL 150 - Christian Story I: Biblical Tradition
- SOC 101 - Principles of Sociology

Total credits recommended: 53

Music Performance

The music performance program prepares students for graduate study and for employment as a professional musician. In addition to completion of the music major curriculum, students should complete the courses listed below:

Recommended courses:

- Class or private instruction in major area of performance (6 credits)
- MUS 312 - Counterpoint
- MUS 325 - Recital
- MUS 398 - Directed Study

Choose six credits from the following:

(One credit must be a Literature course)

- MUS 115 - Music of the Church
- MUS 116 - Jazz Exploration and Understanding
- MUS 214 - Piano Pedagogy
- MUS 215 - Survey of Instrumental Literature
- MUS 216 - Survey of Piano Literature
- MUS 219 - Survey of Choral Literature
- MUS 220 - Survey of Vocal Literature
- MUS 222 - Survey of Organ Literature
- MUS 302 - Advanced Conducting
- MUS 303 - Orchestration

Total credits recommended: 18

Notes:

Students take MUS325 twice; the first recital in the junior year or after four semesters of study.

Vocal majors must substitute MUS217, Vocal Pedagogy for MUS312, Counterpoint; and MUS218, Vocal Diction for MUS398, Directed Study.

Music Therapy

Employment possibilities in music therapy include positions in mental health hospitals, geriatric institutions, special education programs, prisons, detention facilities and veterans' hospitals. A music therapist can aid psychiatrists and psychologists in diagnostic work, treatments, therapeutics and social interactional procedures. The music therapy program will also prepare students for graduate study. In addition to completion of the music major curriculum, students should complete the courses listed below:

Recommended courses:

- ART 150 - Introduction to Art Therapy
- BIO 102 - Human Anatomy and Physiology
- EDU 206 - Survey of Exceptional Individuals
- KIN 338 - Adapted Physical Education
- PSY 221 - Developmental Psychology: Childhood
- PSY 360 - Psychopathology
- PSY 402 - Introduction to Clinical Psychology

Choose one course:

- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Total credits recommended: 28

Occupational Therapy

Occupational therapy is based on the use of everyday activities as the means of helping people with physical and/or mental disabilities to achieve independence.

To prepare for a career as an occupational therapist, you may choose one of three routes: a bachelor's degree, a post-baccalaureate certificate program or a master's degree program.

The baccalaureate (bachelor's) degree program is four years of study: two years (60-semester hours) of pre-professional courses followed by entrance to a professional occupational therapy program in the junior year. The post-baccalaureate certificate program and the master's degree program are available to individuals who have earned a college degree in a field other than occupational therapy. Both take approximately two years to complete.

Employers do not necessarily differentiate between the various entry degrees when hiring new graduates. The following courses are prerequisites to most of the three types of professional programs.

Recommended courses:

- Art elective (any studio course) (4 credits)
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology
- MAT 116 - Statistics for the Natural and Social Sciences
- PHY 111 - General Physics I
- PSY 111 - General Psychology
- PSY 360 - Psychopathology

Choose one course:

- CHE 101 - College Chemistry
- CHE 111 - General Chemistry

Choose one course:

- ENG 288 - Writing in the Professions
- ENG 290 - The Art of the Essay
- ENG 297 - The Rhetoric of Persuasion

Choose four credits:

- PSY 221 - Developmental Psychology: Childhood
- PSY 224 - Developmental Psychology: Adolescence
- PSY 225 - Developmental Psychology: Adulthood

Total credits recommended: 41

Optometry

Northwestern's pre-optometry program prepares the student for entrance into a college of optometry and an eventual career as an optometrist. Students may be accepted by a college of optometry after three years but the majority of those accepted have earned a B.A. degree. Specific courses recommended by most colleges of optometry are as follows:

Recommended courses:

- Biology elective (4 credits)
- Courses in writing (6 credits)
- Psychology electives (8 credits)
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 203 - Microbiology
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- MAT 116 - Statistics for the Natural and Social Sciences
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Choose one course:

- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 112 - Calculus I

Total credits recommended: 52-53

Pharmacy

Pharmacists play an important role in our nation's health care delivery system. A career in pharmacy offers a broad range of opportunities, including community pharmacy, hospital pharmacy, pharmaceutical sales, and pharmaceutical research and development.

Colleges of pharmacy typically require two years of pre-pharmacy followed by a four-year professional program (2+4). The programs of different pharmacy schools may be quite different, and it is therefore essential that pre-pharmacy students familiarize themselves with the curricular requirements of the specific college of pharmacy to which they intend to transfer soon after they enroll at Northwestern College. The courses listed below represent a typical program.

Recommended courses:

- Humanities, behavioral and social science electives (10 credits)
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 203 - Microbiology
- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- ECO 213 - Principles of Microeconomics
- ENG 288 - Writing in the Professions
- MAT 111 - Calculus for Management, Life and Social Sciences
- MAT 208 - Biostatistics

Total credits recommended: 59

Note:

Many pharmacy schools, such as the University of Iowa, require applicants to take the Pharmacy College Admission Test (PCAT). In addition, some pharmacy programs require a year of physics. The University of Iowa physics requirement may be satisfied with one year of high school physics.

Physical Therapy

Physical therapists participate in the evaluation of the capabilities and disabilities of their patients. They administer treatments to alleviate pain, correct or minimize deformity, and improve the general health of the patient. The physical therapist develops a treatment program which may involve teaching the patient to gain strength or better coordination of movement; or administering forms of heat, cold, ultrasound or massage.

The need for physical therapists is critical, but professional physical therapy programs are highly selective.

A student may be admitted to some professional programs after two years (64 credits) and after three years (96 credits) but most students will attend Northwestern for four years, graduating with a B.A. degree before entering a 2-3 year physical therapy professional program. A student may select any major but the following pre-professional courses must be completed.

Graduates of Northwestern's Athletic Training program are also candidates for physical therapy graduate programs. Athletic trainers cannot become physical therapists without completing physical therapy professional training, nor can physical therapists become athletic trainers unless they have graduated from an accredited athletic training program and passed the Board of Certification examination. Some universities offer a program that combines an entry-level graduate athletic training program and a graduate physical therapy program for students whose undergraduate degree could be in exercise science, biology or a related field.

Recommended courses:

- Biology elective (4 credits)
- Mathematics elective (3-5 credits)
- Psychology electives (12 credits)
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology
- MAT 116 - Statistics for the Natural and Social Sciences
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Choose one sequence:

- CHE 101 - College Chemistry
- CHE 102 - College Chemistry
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry

Total credits recommended: 50-52

Professional Studio

The B.A. in art at Northwestern provides a base for the pursuit of a master's in art or a Master of Fine Arts degree. These graduate degrees allow artists to teach in higher education or develop lifestyles as artists with their own studios. The preparation of portfolios and advice about different graduate school programs is part of this emphasis.

Recommended courses:

- ART 307 - Advanced Drawing
- ART 315 - Advanced Ceramics
- ART 317 - Advanced Sculpture
- ART 342 - Advanced Printmaking
- ART 344 - Advanced Painting

Total credits recommended: 20

Veterinary Medicine

This program prepares the student for entrance into a college of veterinary medicine. Most veterinary colleges prefer students who have completed a bachelor's degree, though some accept students after only three years of undergraduate college study. Specific course requirements vary widely between veterinary colleges in different states, therefore students must carefully target a particular school(s) and design their curriculum accordingly. The list below represents a course of study to allow application to the College of Veterinary Medicine at Iowa State University:

Recommended courses:

- Arts, humanities and social science electives (10 credits)
- Courses in writing (6 credits)
- Other electives (2 credits)
- BIO 115 - General Biology: Molecular and Cellular Biology
- BIO 116 - General Biology: Ecology and Organismal Biology
- BIO 202 - Genetics
- BIO 326x - Biochemistry: Proteins and Metabolism
- CHE 111 - General Chemistry
- CHE 112 - General Chemistry
- CHE 321 - Organic Chemistry
- CHE 322 - Organic Chemistry
- PHY 111 - General Physics I
- PHY 112 - General Physics II

Choose one course:

- BIO 221 - Human Anatomy
- BIO 222 - Human Physiology

Total credits recommended: 62

Courses

ACC 215 - Principles of Financial Accounting

(4 credits) This course covers the basic introduction to financial management and financial accounting, including an understanding of the concepts, principles and practices in these areas.

ACC 216 - Principles of Managerial Accounting

(3 credits) This course covers the basic concepts, principles and practice in managerial accounting, including the use of accounting in management decision- making.

Prerequisite: ACC215.

ACC 306 - Cost Accounting

(3 credits) This course involves the study of cost systems and their use in decision-making by management. Emphasis is placed on the areas of cost-volume-profit analysis, job-order and process costing systems, budgets and standards, cost allocation and capital budgeting.

Prerequisites: ACC215 and 216.

ACC 307 - Individual Income Tax

(4 credits) This is an introduction to current federal and state taxation laws and practices. The emphasis is on the federal income tax and its impact on accounting procedures and management decision-making.

Prerequisites: ACC215 and 216, or permission of chair of the business department.

ACC 310 - Non-Profit and Governmental Accounting

(2 credits) This course provides coverage of accounting and reporting standards for not-for-profit organizations and state and local governments. It includes accounting for hospitals, college and universities, voluntary health and welfare organizations, and others. Coverage will also be provided for governmental, propriety and fiduciary type funds used in governments.

Prerequisites: ACC215 and ACC216 or permission of instructor.

ACC 315 - Intermediate Accounting I

(4 credits) This course is a study of the development of accounting principles and practices as they apply to financial statements. Emphasis is placed on the development of the theory used in accounting practice.

Prerequisites: ACC215 and 216.

ACC 316 - Intermediate Accounting II

(4 credits) This course is a continuation of the accounting principles and practices covered in Intermediate Accounting I. Special emphasis is on stockholders' equity and dilutive securities, special issues related to income measurement, and preparation and analysis of financial statements.

Prerequisite: ACC315.

ACC 398 - Directed Study

ACC 415 - Auditing

(4 credits; alternate years, consult department) This course studies the internal control procedures in modern business, the development of auditing standards and procedures, the theory behind the development of such auditing standards and procedures, and how these auditing standards and procedures are applied to the public accountancy field. Special emphasis is on the auditor's decision-making process.

Prerequisites: ACC315 and 316, or permission of chair of the business department.

ACC 417 - Internship

(2 credits may apply toward the major)

ACC 418 - Advanced Accounting

(4 credits; alternate years, consult department) This course is a study of accounting for partnerships, business combinations, affiliated companies, government entities and nonprofit organizations.

Prerequisites: ACC315 and 316, or permission of chair of the business department.

ACC 420 - CPA Review

(1 credit) This course will be a comprehensive review of material for the CPA exam, using a computerized review package.

Note: Graded on a pass/no pass basis.

Prerequisites: ACC415 and 418, or permission of the instructor.

ACC 430X - Entity Tax and Law

(4 credits) This course is a continuation of Federal Tax I and Business Law I. This course will focus on the legal and tax differences between partnerships, LLC's and the corporate business structure as well as how those differences impact management decision-making. Other topics covered may include federal regulation of business, estate planning and bankruptcy.

Prerequisites: ACC307 and BUS321 or permission of instructor.

Cross-Referenced: Cross-referenced in business.

ACC 499 - Honors Research

AGR 201 - Animal Science

(3 credits; alternate years, consult department) Designed to provide background in animal physiology including comparative characteristics and bodily functions of farm animals. This course also includes the livestock enterprise components of swine, beef, horses, sheep and poultry.

AGR 212 - Crop Production

(3 credits; alternate years, consult department) Covers basic principles of crop production, emphasizing the production of corn, soybeans, sorghum, small grains and forages. The effects of soil and climate on plant growth and production are integrated into the various crops studied. Weeds and weed control are also included.

AGR 301 - Agricultural Marketing

(3 credits; alternate years, consult department) Designed to provide exposure to the total agricultural marketing structure, with emphasis on market evaluation and decision-making. The cash market, local contracting, and the futures market are studied as tools in the development of an orderly marketing program.

AGR 302 - Agri-business Management

(3 credits; alternate years, consult department) This course is designed to expose the student to management principles and techniques as they apply to the agri-business setting.

ART 105 - Introduction to Studio

(4 credits) (IGE option under Aesthetic Experience) A course placing emphasis on the introduction to studio art media and learning the basics of two- and three- dimensional design. Art terms and concepts will be explained and essential vocabulary will be utilized. Basic problems of aesthetics and the nature of art will be explored throughout the course. Emphasis is upon learning creative problem solving using visual media. Art history is introduced in the course in the presentation of projects. Studio projects, discussions and criticism of art works are features of the course.

Note: Does not count toward an art major or minor.

ART 120 - Art History Survey, Prehistoric Through Medieval

(4 credits; alternate years, consult department) (IGE option under Aesthetic Experience) A contextual world survey of the developments in architecture, sculpture, painting, and other mediums from prehistory to the Gothic period.

ART 122 - Art History Survey, Renaissance Through Early 20th Century

(4 credits; alternate years, consult department) (IGE option under Aesthetic Experience) A contextual world survey of the development and evolution of various media including architecture, sculpture, painting, prints, photography, design, film and other mediums since the Renaissance.

ART 150 - Introduction to Art Therapy

(2 credits; alternate years, consult department) This course is designed to offer students a didactic and experiential overview of the field of art therapy. Students will study the history, theory, and practice of art therapy processes and approaches as well as survey the populations, settings and applications of this unique therapeutic technique.

ART 164 - Photography I

(2 credits) Taught as a medium of creative expression or as an art form and as a journalistic tool. Film processing and printing are taught as well as camera techniques, darkroom procedures and presentation of work for exhibitions.

ART 206 - Drawing

(4 credits) Drawing will emphasize learning how to perceive the three- dimensional world and render it on paper using the most simple and direct drawing media. Drawing will form the foundation of work in other media. Design fundamentals will be a significant part of the course.

Note: Class critiques are used to learn formal vocabulary, find content in drawings and understand fine art.

ART 211 - Art for Elementary Education

(2 credits) Methodology of teaching art concepts to elementary school children integrated into the elementary curriculum. Studio projects, textbook study and lectures are included.

Note: Does not count toward an art major or minor. This course is limited to elementary education majors who have been admitted into the teacher education program or by permission of instructor.

ART 215 - Ceramics

(4 credits) The art of working with clay and other ceramic materials. Emphasis will be upon learning the fundamentals of three-dimensional design and achieving an understanding of clay as a unique art form. Techniques include hand-building sculptural and functional forms, and learning the basics of throwing on the wheel and glazing.

ART 217 - Sculpture

(4 credits) Three-dimensional art. Emphasis upon the basics of three- dimensional design and how creative ideas are formed using a three-dimensional approach. Degrees of depth are explored ranging from drawing and relief to works in the round. Techniques include clay modeling, woodworking, plaster casting, metal work and construction with mixed media.

ART 220 - Graphic Design I

(4 credits) Graphic Design I is an introduction to the computer applications used in the communication, design and publishing fields. There will be an introduction to graphic design problems and projects in order to learn how these applications all work together.

ART 230 - Design: Theory and Practice

(4 credits; alternate years, consult department) Study of the language of visual art including the elements and principles of design. Emphasis on learning creative problem solving and activities that focus upon the making and criticism of design projects in response to specific problems. The ethics and stewardship of design, and its influence on society and culture are considered.

ART 235 - Integrating Art for Elementary Classroom Teachers

(1 credit) Methodology of teaching art concepts to elementary-aged students integrated into the elementary curriculum. Studio projects, textbook study, and lectures are included.

Note: Does not count toward an art major or minor.

Prerequisite: EDU326.

ART 242 - Printmaking

(4 credits) (Intaglio and Relief) A course providing the student an opportunity to gain knowledge of the printmaking processes of metalplate etching and engraving, woodcut, linocut, lithography and monotype. The student will have the opportunity to give form to his/her ideas while discovering the graphic properties and potentials of each print process from drawing to the final print.

ART 244 - Painting

(4 credits) Introduces students to the techniques of oil, acrylic and water color painting. Students will learn to understand compositional form and color relationships. Historical examples of painting are examined and different methods of painting are demonstrated. Class critiques are used to learn formal vocabulary and achieve an understanding of subject style and content in painting.

ART 265 - Photography II

(2 credits) The fundamentals of photography as an art medium and a journalistic tool are used to develop an individual style or method of composing and printing photographs. This individual aesthetic approach will be seen in all the work presented at the end of the course.

Prerequisite: ART164.

ART 307 - Advanced Drawing

(4 credits) Further development in the search for a personal approach to content in the students work utilizing traditional and contemporary drawing approaches. Students will develop form and content through a series of drawings.

Prerequisite: ART 206 or permission of instructor.

ART 308 - Methods of Teaching Secondary Art

(2 credits; alternate years, consult department) The content, techniques and media for teaching art at the secondary education level.

Note: Does not count toward an art major or minor.

ART 315 - Advanced Ceramics

(4 credits) A continuation of the creative development of both functional and nonfunctional forms using advanced forming processes. The formulation of clay bodies, glazes, and their preparation, testing and application are introduced. Students will learn to load and fire gas and electric kilns.

Prerequisite: ART215.

ART 317 - Advanced Sculpture

(4 credits) The development of and exploration of formal and conceptual approaches to sculpture. Issues in contemporary sculpture will be explored. Wood, metal, plaster and other mediums will be used along with less traditional approaches to creating work including the use of found objects, mixed media, performance and group efforts.

Prerequisite: ART217.

ART 320 - Graphic Design II

(4 credits) Graphic Design II is a course for students to gain the understanding of what good design is and how to clearly communicate with it. Students will produce finished examples of graphic design with a specific use in mind such as advertising, public information, business communication, etc.

Prerequisite: ART220.

ART 325 - Special Topics in Art

(2 credits; alternate years, consult department) A course providing the opportunity to do a concentrated study in the field of art, art history and/or design.

Note: May be taken more than once provided a different topic is studied.

Prerequisites will be determined by instructor and department according to the topic of the course.

ART 331 - Art Since 1940

(4 credits; alternate years, consult department) A survey of contemporary art and the art of the second half of the 20th century. The course will focus on studying the development of artists and their works by examining their works and identifying the artistic, social, political and philosophical ideas and events that may have been influential. In the process, artistic styles and movements will be defined and compared.

Prerequisites: ART120 and 122.

ART 342 - Advanced Printmaking

(4 credits) An opportunity for advanced students to work with their own directions in printmaking media. The course encourages development of an individual printmaking direction and to choose a single theme or focus throughout a series of prints in order to develop consistency and maturity.

Prerequisite: ART242.

ART 344 - Advanced Painting

(4 credits) Individualized courses and programs: This course encourages the student to develop an individualized painting style. A single theme is repeated throughout course projects in order to develop consistency and maturity. Students are expected to develop their own personal aesthetic and style.

Prerequisite: ART242.

ART 398 - Directed Study

ART 417 - Internship

(2 credits may apply toward the major) An internship to provide the student with opportunities to learn and to apply the knowledge, principles, and abilities gained from the curriculum. Opportunities are available in professional art studios, graphic design studios, galleries, museums and printing houses.

ART 499 - Honors Research

AUS 311 - Field Botany

AUS 312 - Insect Biology and Ecology

AUS 315 - Woody Plants

AUS 322 - Aquatic Biology

AUS 361 - Field Natural History

BIO 101 - Introduction to Environmental Science

(4 credits) (IGE option under Science and the Natural World) An introduction to an understanding of earth's basic life support systems, the impact of human activity on such systems, and the ethical basis and strategies for human response to environmental degradation.

Note: Includes 1 1/2 hours of lab per week. Does not count toward a biology major or minor.

BIO 102 - Human Anatomy and Physiology

(4 credits) (IGE option under Science and the Natural World) An introduction to the structure and function of the human body.

Note: Includes 1 1/2 hours of lab per week. Does not count toward a biology major or minor.

BIO 110 - Introduction to Life Science

(4 credits) (IGE option under Science and the Natural World) This course will explore life processes common to plants, animals, and protists; cell structure and function; biodiversity; an introduction to genetics; biochemistry and development; evolution and ecology. Laboratory exercises will help students explore each topic using the scientific method. Hypothesis forming, data analysis and reporting will be essential components of the laboratory. An accompanying text will introduce students to Christian perspectives on current issues in molecular genetics and evolutionary theory.

Note: Does not count toward a biology major or minor.

BIO 115 - General Biology: Molecular and Cellular Biology

(4 credits) (IGE option under Science and the Natural World) An introduction to molecular and cellular biology, with an examination of the processes common to living organisms and an introduction to the diversity of life, emphasizing unicellular organisms. This introduction will provide students with a basic understanding of macromolecules, cell structure and function, respiration and photosynthesis, the cell cycle, meiosis, genetics, mechanisms of evolutionary change, and Christian perspectives on evolutionary biology.

Note: Three lectures and 3 hours of laboratory work per week.

BIO 116 - General Biology: Ecology and Organismal Biology

(4 credits) (IGE option under Science and the Natural World) An introduction to organismal biology and ecology. Structure and function of representatives from the plant and animal kingdom are emphasized. In addition, students will be introduced to basic ecological concepts and Christian perspectives on stewardship.

Note: Three lectures and 3 hours of laboratory work per week.

BIO 121 - Introduction to Human Anatomy

(4 credits) An introduction to the anatomical structures of the human body. The focus of the course will be on structures of: cells, tissues, organs and organ systems. The systems studied will include (but not necessarily limited to) integument, bone, skeletal system (including joints), muscle, cardiovascular, nervous, lymphatic, endocrine, respiratory, renal, reproductive and gastrointestinal.

Note: Includes 3 hours of lab per week as well as lab practical examinations using either dissected organs from an animal source or A.D.A.M. interactive anatomy. Does not count toward a biology major or minor.

Concurrent requisite: CHE101 or 111.

BIO 122 - Introduction to Human Physiology

(4 credits) An introduction to the physiology of the human body. The focus of the course will be on homeostasis and the function of: biomolecules, cells and tissues, organs and organ systems. The contribution of each of the following organ systems to physiologic homeostasis will be examined: nervous, muscle, cardiovascular, endocrine, respiratory, renal, reproductive and gastrointestinal.

Note: Includes 3 hours of lab per week which will emphasize the measurement of organ system function. Does not count toward a biology major or minor.

Prerequisite: CHE101 or 111; Concurrent requisite: CHE102 or 112.

BIO 201 - Bioethics

(4 credits; non-yearly, consult department) A seminar which applies Christian perspectives to selected problems in the field of biology.

Note: Does not count toward a biology major or minor.

BIO 202 - Genetics

(4 credits) An introduction to the principles of heredity and their practical application.

Note: Includes 1 1/2 hours of lab per week.

Prerequisites: BIO115 or 116.

BIO 203 - Microbiology

(4 credits) A study of the morphology and physiology of microorganisms with special emphasis on bacteria and viruses. Those organisms that have an economic or medical importance will be highlighted, and basic laboratory techniques will be stressed.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO115, 116 and CHE101, 102 or CHE111, 112.

BIO 205 - Ecology

(4 credits) A study of the processes determining the distribution and abundance of organisms in space and time, their exchange of matter and energy with their environment, the measurement of these phenomena, and the application of ecological knowledge in the care of creation.

Note: Course includes required field trips and 3 hours of lab per week.

Prerequisites: BIO115 and 116

BIO 221 - Human Anatomy

(4 credits) A study of the gross structure of the systems of the human body.

Note: Includes 3 hours of lab per week.

Prerequisite: BIO102, 115 or permission of instructor.

BIO 222 - Human Physiology

(4 credits) A study of the mechanisms by which the human body functions. Emphasis will be given to nerve and muscle function, and thereafter to hormonal control and the integrated systems that allow for respiratory, digestive, excretory and reproductive activities.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO102 or 115 and CHE101, 102 or CHE111, 112 or permission of instructor.

BIO 250 - Special Topics

(2-4 credits; non-yearly, consult department) Courses and topics not taught on a regular basis are assigned to this category. Extended field trips for which credit is offered also fall into this category.

BIO 280 - Vertebrate Zoology

(4 credits; alternate years, consult department) An in-depth study of the major groups of vertebrate species. Topics include vertebrate taxonomy, classification, comparative vertebrate anatomy, physiology, behavior, and life histories.

Note: Three lectures and 3 hours of laboratory work per week.

Prerequisites: BIO115 and 116.

BIO 307 - Histology

(4 credits; alternate years, consult department) A study of the microscopic structure of cells, tissues and organs in vertebrate animals with special emphasis on human tissues. An effort is made to correlate structure and function and highlight important pathologies.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO115 and 116.

BIO 309 - Plant Taxonomy

(4 credits; alternate years, consult department) An introduction to principles of classification of plants and characteristics of major plant families with emphasis on the plants of the Midwest. Includes field study and laboratory practice in identifying, collecting and preserving plants.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO116 or permission of instructor.

BIO 310 - Cell Biology

(4 credits; alternate years, consult department) A study of the structure and function of cells and of their subcellular organelles. Structural detail will be described to the level of macromolecular assemblages. Wherever possible, function will be described in terms of the molecular mechanisms that underlie biological processes.

Note: Includes three lectures and 1 1/2 hours of lab per week.

Prerequisites: BIO115, 116, and CHE101, 102, or CHE111, 112

BIO 312 - Invertebrate Zoology

(4 credits; alternate years, consult department) A survey of the structure, function, classification and behavior of animals without backbones. Special attention is given to those which are parasitic in nature.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO115 and 116.

BIO 315 - Immunology

(4 credits; alternate years, consult department) The basis of the immune system throughout the animal kingdom is the ability to recognize "self" from "not-self". This course will investigate the molecular and cellular mechanisms that allow organisms to recognize, control and eliminate such not-self entities as bacterial pathogens, foreign tissue grafts and even transformed cells.

Note: Includes three lectures and 1 1/2 hours of lab per week.

Prerequisites: BIO115, 116 and CHE101, 102 or CHE111, 112.

BIO 320 - Pharmacology

(4 credits) A survey of the pharmacologic basis of therapeutics beginning with an introduction to the principles of pharmacology. This is followed by a survey of the more important drugs used in medicine with emphasis on mechanism of action, clinical use, and adverse effects.

Prerequisites: BIO222 and CHE101, 102 or CHE111, 112.

BIO 326x - Biochemistry:Proteins and Metabolism

(4 credits) A fundamental course surveying biomolecules, catabolism, bioenergetics and biosynthesis.

Note: Includes 3 hours of lab per week.

Prerequisites: CHE321 and 322.

Cross-Referenced: Cross-referenced in chemistry.

BIO 327 - Biochemistry: Molecular Genetics

(4 credits) This course focuses on the structure and function of nucleic acids. Topics include replication, transcription and translation of genetic information, and control of gene expression.

Note: Includes 3 hours of lab per week.

Prerequisites: BIO115, CHE321 and 322.

BIO 329 - Stewardship Ecology

(4 credits; alternate summers, consult department) This course examines the application of the scientific principles of conservation and restoration ecology through the lens of a Biblically informed view of our role as stewards of God's Creation. This course includes an in-depth study of our call to stewardship, field projects and an extended field trip. This course creates the foundation for development of a worldview that incorporates a personal responsibility for Christian environmental stewardship.

Note: Each course offering is subject to enrollment. Additional travel costs will be assessed in addition to tuition.

Prerequisites: BIO101, 116, 205 or permission of instructor.

BIO 330 - Topics in Ecology

(2-4 credits; a minimum of 4 credits will be offered per year) Advanced studies of the function and structure of local ecological communities and/or life forms. Courses will emphasize the use of fieldwork, research projects and/or primary literature.

Note: Course may include required field trips and 3 lab hours per week.

Prerequisites: BIO205 or permission of instructor.

BIO 340 - Neuroscience

(4 credits; alternate years, consult department) Introduction to the structure and function of the nervous system, emphasizing neuroanatomy, neurophysiology, neuropharmacology and aspects of neuropathology. Multiple levels will be explored from the molecular and cellular levels through brain and spinal cord networks that contribute to complex behavioral and cognitive function.

Note: Includes 3 hours of lecture and additional laboratory work each week.

Prerequisites: BIO102 or 221 or permission of instructor.

BIO 345 - Neuroscience and Persons Seminar (NAPs)

(2 credits; alternate years, consult department) Interdisciplinary lectures, discussions and presentations related to the reading and critiquing of literature on selected topics in the area of neuroscience and persons. Student-led discussions and presentations (oral and written) will be emphasized. Possible topics include: artificial/machine intelligence, clinical neuroscience and neuropathology, cognitive neuroscience, neuroscience and Christianity, neuroscience of emotion, neuroethics, neuromodeling, neuroscience of mental illness, neurophilosophy, neurotheology and social neuroscience; consideration of NAPs-related student research may also be included.

Prerequisite: BIO340 or permission of instructor.

BIO 350 - Special Topics

(2-4 credits; non-yearly, consult department) Courses and topics which are of special interest to faculty and students but which are not offered on a regular basis may be assigned this number. Examples of such offerings would be developmental biology, cardiovascular physiology and virology. Extended field trips for which credit is offered also fall into this category.

Note: Includes three lectures and 1 1/2 hours of lab per week.

Prerequisites: appropriate 200-level biology courses.

BIO 351 - Physical Therapy Field Experience

(2 credits) The experience acquaints the student more fully with the profession of physical therapy. Most professional schools of physical therapy require applicants to have had practical experience.

Note: Graded on a pass/no pass basis.

Prerequisites: sophomore class standing, physical therapy pre-professional, minimum cumulative GPA of 3.00.

BIO 352 - Veterinary Medicine Field Experience

(2 credits) Under the overall supervision of the pre-veterinary advisory committee the student will spend time in clinic and on call observing the work of local veterinarians. An attempt will be made to expose the student to as many different veterinary specializations as possible.

Note: Graded on a pass/no pass basis.

Prerequisites: junior class standing, veterinary medicine pre-professional.

BIO 353 - Conservation of Natural Resources Field Experience

(2 credits; non-yearly, consult department) The student would work under the supervision of persons involved in conservation work at the site of the cooperating agency.

Note: Graded on a pass/no pass basis.

Prerequisite: junior class standing and prior arrangement.

BIO 360 - Pathophysiology

(4 credits) An introduction to the pathophysiology associated with the disease states of the human body. The focus of the course will be on disruptions in homeostasis as the result of organ system malfunction or failure. The pathophysiology associated with the following systems will be examined: blood, cells and cell growth, nervous, muscle, cardiovascular, endocrine, respiratory, renal, reproductive and gastrointestinal.

Prerequisites: BIO122 or 222 and CHE102 or 112.

BIO 393 - Research Experience

(1 credit) A research experience for biology ecological science majors in fulfillment of the department's field skills requirement. The research experience course shall be designed to provide credit and documentation of a field experience. During enrollment in the research experience course, the student shall, under supervision of department faculty, analyze data collected during the field experience, organize and synthesize such data into a professional scientific paper, submit such a paper to an appropriate, peer-reviewed journal and make subsequent response to the journal pursuant to publication. Departmental approval required.

BIO 398 - Directed Study

BIO 417 - Internship

(4 credits may apply toward the major)

BIO 425x - Biology/Chemistry Research Seminar

(1/4 credit; non-yearly, consult department) A research seminar of in-progress studies in chemistry and biology by Northwestern students, faculty and selected invited guests from other institutions. Features presentation, discussion, analysis and critique of original research.

Note: Course may be repeated. Graded on a pass/no pass basis. Student must attend 90% of the total number of seminars offered during the semester to receive a passing grade.

Prerequisite: permission of instructor.

Cross-Referenced: Cross-referenced in chemistry.

BIO 499 - Honors Research

BUS 200 - Principles of Marketing

(4 credits) This course introduces students to marketing terminology; defines the elements and activities necessary to create, communicate and deliver value through beneficial exchanges; and enables students to understand and replicate the marketing process at any entry level.

BUS 218 - Business Ethics

(2 credits) This course is a study of basic ethical theories including the Christian impact on ethics. It includes applications of ethical decision-making to business problems and cases.

Prerequisites: sophomore class standing and completion of at least two courses in business, economics or accounting.

BUS 250 - Management and Organizational Behavior

(4 credits) This course is a study of how organizations function and the importance of the individual, groups dynamic and the organizational setting in which these realities take place. It includes the understanding of basic management principles and the key concepts and principles of organizational behavior. It will provide an opportunity for critical analysis and practical application of the concepts identified through the readings and lectures.

BUS 300 - Principles of Finance

(2 credits) This course covers the basic principles, theory and techniques of financial decision-making in the structure of a corporation.

Prerequisites: ACC215 and ACC216; and either MAT109 or MAT117.

BUS 304 - Investments

(4 credits) Models of risk and return are carefully developed to provide a basis for assessing investment opportunities and to enhance our understanding of the role and importance of financial markets. A considerable portion of the course will be devoted to the pricing of derivative securities including options, forward contracts and futures contracts.

Prerequisite: BUS300 or ACC315.

BUS 305 - Organizational Behavior and Theory

(3 credits, non-yearly) This course will review the major historical and contemporary themes and phases of organizational theory and behavior. The class will examine and discuss the evolution and practice of the modern organization. The course will provide an understanding of the key concepts and principles of organization theory and behavior. This course will provide an opportunity for critical analysis of practical application of the concepts identified through the readings and lecture.

Prerequisite: BUS250.

BUS 308 - Methods of Teaching Secondary Business

(2 credits; alternate years, consult department) This course is the study of the content, techniques, materials and theory for teaching business at the secondary level.

Note: The course does not count toward a major or minor in business education, business administration, accounting or economics.

BUS 309 - Human Resource Management

(3 credits) Students study the development of human resources management, including history, policies, practices and applications. Specific attention is paid to the study of the processes involving the management of human resources and its legal environment.

Prerequisite: BUS250 or permission of instructor.

BUS 321 - Business Law

(3 credits) This course is designed to acquaint students with the legal principles which, when followed, allow business transactions to run smoothly and with predictability. The topics include contracts, agency and property law, plus criminal law, torts, the Uniform Commercial Code, the litigation process and alternatives to litigation. Both business and non-business students can benefit from this basic course on Anglo-American law.

BUS 323 - Operations Management

(4 credits) This course integrates the theory, scope and practice of operations in industrial and service settings and the importance of supply chain management as a recent development in operations management. It includes the study of quality, lean management, supply chain management, capacity, scheduling, inventory control, logistics, forecasting and coordination. A strong emphasis is placed on practical and behavioral aspects of operations management.

Prerequisite: BUS250.

BUS 325 - Marketing Communications

(4 credits) This course will examine promotional and integrated communication strategies which include various marketing communication functions: sales promotion, personal selling, branding, event promotion, public relations, advertising, and interactive marketing. Students will learn to utilize this information in developing effective marketing communication strategies and programs.

Prerequisite: BUS200.

BUS 398 - Directed Study

BUS 400 - Entrepreneurship and New Venture Initiation

(4 credits) This course focuses on the principles of entrepreneurship and the process through which new ventures are designed, developed and implemented. It also includes student interaction with successful Christian entrepreneurs from a broad spectrum of businesses. Students will learn the theories of entrepreneurship, meet entrepreneurs who share their journey, and focus on "doing entrepreneurial activities" through crafting their own business plans.

Prerequisite: junior class standing.

BUS 401 - Consumer Behavior

(4 credits) This course explores the cultural, social, personal and psychological factors influencing buyer behavior; buying-decision processes and stages; and learning theory integrated with consumer beliefs and attitudes.

Prerequisite: BUS200.

BUS 403 - Business Strategy

(3 credits) This capstone course is designed to assist students in analyzing and synthesizing the material covered in other courses throughout their studies. It focuses on an integrated approach to management decision-making using all of the functional areas of business.

Prerequisite: completion of business core and senior class standing.

BUS 404 - Advanced Corporate Finance

(4 credits) This course is a continuation of Principles of Finance. We will explore topics such as the cost of capital, capital structure and dividend policy, and analyze their significance in long-term financing decisions. We will also examine international aspects of corporate finance and the management of risk with derivative securities.

Prerequisite: BUS300 or ACC315.

BUS 405 - Strategic and Managerial Marketing

(4 credits) This course is designed to help students think strategically and analytically when addressing marketing problems. Students will learn the strategic process of situation assessment, marketing strategy formulation and implementation, and evaluation and adjustment. Managerial decisions regarding positioning, growth strategy, competitive advantage, market targeting and segmentation, price, and distribution will be covered in the context of overall market analysis and attractiveness.

Prerequisite: BUS200.

BUS 417 - Internship

(2 credits may apply toward the major)

BUS 430X - Entity Tax and Law

(4 credits) This course is a continuation of Federal Tax I and Business Law I. This course will focus on the legal and tax differences between partnerships, LLC's and the corporate business structure as well as how those differences impact management decision-making. Other topics covered may include federal regulation of business, estate planning and bankruptcy.

Prerequisites: ACC307 and BUS321 or permission of instructor.

Cross-Referenced: Cross-referenced in accounting.

BUS 499 - Honors Research

CEY 210 - Foundational Issues in Christian Education

(4 credits) An introduction to critical foundational issues underpinning the discipline and practice of Christian education. These issues include the philosophical, biblical, theological and developmental theories related to education in the local church. The course will also examine different theories concerning the practice of CE. The course is designed to help the student design ministry practice that is most appropriate to particular situations and that is rooted in good theory and relevant to the contemporary Church.

CEY 212 - Foundational Issues in Youth Ministry

(4 credits) This course will ground students in the concepts, issues and contexts which are foundational for the study of ministry with adolescents. This course will deepen and broaden current understandings of "youth ministry" by developing a student's biblical, theological, philosophical, and theoretical basis for work with the next generation of the church. Using the two basic categories of adolescent culture and adolescent ministry, this course will examine contemporary adolescent culture(s) and will assist students in investigating and evaluating their own experience of adolescence, as well as various models of ministry to and with adolescents, both within and outside the church.

CEY 310 - Leadership Development

(2 credits; non-yearly, consult department) The course focuses on developing a leadership style that facilitates personal and community spiritual development and reflects a biblical understanding of servant leadership. The purpose is to develop a leadership style that empowers others to engage in ministry in the midst of the church and the world.

Prerequisite: Must be sophomore standing or higher.

CEY 315 - Philosophy of Adolescent Ministry

(4 credits; alternate years, consult department) An investigation and formulation of a philosophy of ministry to and with adolescents. Various theoretical issues will be examined which will inform and assist students in the development of a philosophy which is biblically grounded, developmentally sensitive, culturally relevant, and theologically contextualized to the world of contemporary adolescence.

Prerequisite: CEY212 and junior or senior class standing.

CEY 320 - Teaching and Learning Strategies

(4 credits; non-yearly, consult department) The purpose of this course is to train students to teach Bible effectively in small group settings. The student is exposed to both the theory and practice of teaching and learning theories. Half the class is devoted to practicum in teaching.

Prerequisite: CEY210 and REL328.

CEY 330 - Special Topics in CE/YM

(2 or 4 credits; non-yearly, consult department) This course provides an opportunity to focus on different topics in a more specific and in-depth way. The topics will relate to contemporary issues in either Christian education or youth ministry and adolescent studies.

CEY 380 - Narrative and Spiritual Formation

(2 credits; non-yearly, consult department) A study of narrative, both personal and biblical, with the intent of understanding the power and potential of narrative for both learning and spiritual formation across the age span. The course will include both theory of narrative and practical elements of storytelling.

Prerequisite: junior or senior class standing.

CEY 398 - Directed Study

CEY 401 - Integrated Field Experience I

(2 credits) The focus of CEY401 and CEY402 is intentional exposure to various aspects of practical ministry in either Christian education or youth ministry in a local church or para-church organization, for two consecutive semesters. The practical experience must be under supervision of an on-site supervisor and the professor of Christian Education. Weekly seminars for discussion and reflection on ministry and preparation for the writing of a major paper on the philosophy of ministry are conducted on campus.

Prerequisites: Senior class standing and permission of instructor.

CEY 402 - Integrated Field Experience II

(2 credits) The focus of CEY401 and CEY402 is intentional exposure to various aspects of practical ministry in either Christian education or youth ministry in a local church or para-church organization, for two consecutive semesters. The practical experience must be under supervision of an on-site supervisor and the professor of Christian Education. Weekly seminars for discussion and reflection on ministry and preparation for the writing of a major paper on the philosophy of ministry are conducted on campus.

Prerequisites: senior class standing and permission of instructor.

CEY 417 - Internship

(2 credits may apply toward the major)

CEY 499 - Honors Research

CHE 101 - College Chemistry

(4 credits) (IGE option under Science and the Natural World) An introductory course in inorganic chemistry. The treatment of topics is predominantly descriptive and the content is especially suited to meet the needs of students whose programs require only one year of chemistry.

Note: Three lectures and one three-hour laboratory period per week. Open to all students.

CHE 102 - College Chemistry

(4 credits) An introductory course in organic and biological chemistry. The content is especially suited to meet the needs of students whose programs require only one year of chemistry.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE101.

CHE 105 - Topics in Chemistry

(4 credits) (IGE option under Science and the Natural World) This course offers an introductory level chemical exploration of interdisciplinary scientific, cultural, or theological topics. Possible topics include energy and environment, forensic chemistry, chemistry and art, nanotechnology, and medicinal chemistry.

CHE 111 - General Chemistry

(4 credits) (IGE option under Science and the Natural World) An introductory course in chemistry that emphasizes physical and inorganic concepts, problems and calculations. Topics include chemical reactions, stoichiometry, properties of gases, thermochemistry, theories of atomic structure, and chemical bonding. The general chemistry sequence (Chemistry 111 and Chemistry 112) is recommended for students with good math / science preparations who intend to proceed to advanced courses in chemistry, the biological sciences or engineering.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisites: high school chemistry and ACT math score of at least 24 (SAT 550 or above).

CHE 112 - General Chemistry

(4 credits) A continuation of Chemistry 111. Topics covered include kinetics, thermodynamics, chemical equilibria, acid-base chemistry and nuclear chemistry.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE111 or consent of the instructor.

CHE 211 - Quantitative Analysis

(4 credits; alternate years, consult department) The theory and practice of volumetric and gravimetric analysis, including the use of oxidation-reduction reactions and spectrophotometry.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE112 or CHE102 and permission of instructor.

CHE 315 - Instrumental Analysis

(4 credits; alternate years, consult department) A study of the theory and operation of common laboratory instruments. Topics include: infrared, visible and ultraviolet spectroscopy; atomic absorption and emission spectroscopy; nuclear magnetic resonance spectroscopy; mass spectrometry; gas and liquid chromatography; electrochemical methods.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE211 or permission of instructor.

CHE 321 - Organic Chemistry

(4 credits) The study of carbon compounds and their functional groups, including nomenclature, synthesis, reactions, structures, mechanisms and spectroscopic analysis.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisites: CHE102 or 112 or permission of instructor.

CHE 322 - Organic Chemistry

(4 credits) A continuation of the study of carbon compounds and their functional groups, including nomenclature, synthesis, reactions, structures, mechanisms and spectroscopic analysis.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE321.

CHE 326x - Biochemistry: Proteins and Metabolism

(4 credits) A fundamental course surveying biomolecules, catabolism, bioenergetics and biosynthesis.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisites: CHE321 and 322.

Cross-Referenced: Cross-referenced in biology.

CHE 398 - Directed Study

CHE 411 - Advanced Inorganic Chemistry

(3 credits; alternate years, consult department) A study of the chemistry of metals and nonmetals with an emphasis on periodicity, chemical bonding, structure and reaction mechanisms.

Prerequisite: CHE322.

CHE 417 - Internship

(4 credits may apply toward the major)

CHE 425x - Biology/Chemistry Research Seminar

(1/4 credit; non-yearly, consult department) A weekly research seminar of in-progress studies in chemistry and biology by Northwestern students, faculty and selected invited guests from other institutions. Features: Proteins and Metabolism A fundamental course surveying biomolecules presentation, discussion, analysis and critique of original research.

Note: Course may be repeated. Graded on a pass/no pass basis. Student must attend 90% of the total number of seminars offered during the semester to receive a passing grade.

Prerequisite: permission of instructor.

CHE 433x - Introductory Physical Chemistry

(4 credits; alternate years, consult department) An introductory course in chemical thermodynamics, quantum chemistry and chemical kinetics.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisites: MAT112 and 211; and either chemistry: Proteins and Metabolism A fundamental course surveying biomolecules or CHE112 or PHY212.

Cross-Referenced: Cross-referenced in physics.

CHE 436x - Intermediate Physical Chemistry

(4 credits; alternate years, consult department) An intermediate course in chemical thermodynamics, quantum chemistry, and chemical kinetics.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: CHE433x.

Cross-Referenced: Cross-referenced in physics.

CHE 499 - Honors Research

COM 101x - Mass Media and Society

(4 credits) Examines the historical development, organization and structure of the mass media in contemporary society, as well as related issues and problems. Suggests Christian perspectives on use of and participation in the mass media.

Cross-Referenced: Cross-referenced in theatre/speech.

COM 185 - Media Writing

(4 credits) Students learn genres of writing for print and broadcast journalism and video, as well as for public relations and advertising. They learn these genres in relation to each other and in relation to their organizational contexts and audiences. Included are reporting, organizing and writing, as well as basic legal and ethical guidelines for reporters and writers in journalism and PR.

COM 202 - Video Production

(3 credits) Acquaints the student with the basic equipment, techniques, and procedures of video production, both in studio and on location. Attention to principles of videotape editing.

COM 210 - Topics in Communications

(2-4 credits; alternate years, consult department) An exploration of an area or genre of communication not adequately covered in the current curriculum. See the professor listed for details about the current topic.

COM 215 - Practicum in Public Relations

(1 credit) Practical experience in public relations related projects such as publicity, promotions, employee and customer relations, special events, advertising, Web design, corporate research, grant writing, and human resources development and training. Project sites and sponsors may be campus departments and organizations, community businesses, and non-profit organizations.

Note: Graded on a pass/no pass basis. Course may be repeated.

Prerequisites: completion of, or enrollment in, any of the following courses: COM230, 261, 263, 315, 332, 355, and ENG288, or permission of instructor.

COM 217 - Communication Practicum in Print Media

(1 credit) Practical experience working on the campus newspaper, the Beacon, or the college yearbook, the Cornerstone.

Note: Graded on a pass/no pass basis. Course may be repeated.

Prerequisite: students must be accepted for membership on one of these publications before signing up for the practicum.

COM 219 - Communication Practicum in Television Production

(1 credit) Practical experience working with television productions produced for TV-3, the campus cable TV channel.

Note: Course may be repeated.

Prerequisite: COM202.

COM 225 - Media Law and Ethics

(2 credits) This class explores the ethical and legal judgments of media professionals both past and present in an attempt to reveal the process by which important communications decisions are made. By exploring the successes and failures of others, students will learn to hone their own decision-making skills. They will also learn how the law affects their field and ultimately the decision-making processes of members of the media. Finally, this course will show students there is no such thing as a universal ethic and that their own principles will not always agree with the principles of others. Students will come to understand the differences between secular ethical considerations and their own Christian values.

Prerequisite: COM101.

COM 230 - Principles of Public Relations

(3 credits; alternate years, consult department) Introduction to the field of public relations. Its focus is on public relations theory and practice with an emphasis on emerging trends. This course is offered as an overview covering public relations history, theories, strategies and tactics.

COM 261 - Feature Writing

(2 credits; alternate years, consult department) Study of interviewing practices, research methods, organization, and interest-gathering techniques necessary for writing longer articles, profiles, columns and consumer affairs writing.

Prerequisite: COM185 or permission of instructor.

COM 263 - Layout and Design

(3 credits) Covers basic principles of design as they apply to a wide variety of publications. Emphasis on selecting type, art and graphics appropriate to subject matter, purpose and audience.

COM 310 - Advanced Topics in Communications

(2-4 credits; alternate years, consult department) This course is designed to be an upper-level course providing in-depth and additional knowledge and/or skill in specific discipline areas that are not well covered in the current curriculum. Topics will vary according to students' interests and needs, changes and developments in the communication discipline and practice, and faculty skills and interest. Potential topics may include additional instruction in advertising, public relations, magazine writing, advanced news writing and editing, advanced video editing, digital video directing, and international and intercultural communication.

Prerequisites: to be determined by department.

COM 312 - Advanced Public Relations: Strategy & Implementation

(4 credits) This course is designed to further define the ethical practice of public relations, as well as give experience in the research, design, presentation and evaluation of a public relations campaign for a client.

Prerequisites: COM185 and COM230.

COM 315 - Writing and Design for the Web

(3 credits; alternate years, consult department) Study of writing and design for a Web environment. Students will analyze Internet sites and design sites of their own, using a standard program for Web design.

Prerequisites: any of the following: COM263, ART220, ART230, or permission of instructor.

COM 330 - Multiplatform Communications

(4 credits) Communication platforms are converging, and modern communicators must be capable of telling stories in a variety of ways. This course explores multiplatform storytelling and enables students to translate content from traditional print media forms to digital platforms. Students will learn to create appropriate content for websites, blogs, social media platforms and tablet devices. They will also learn to make decisions about which platforms are most appropriate for the telling of various story types.

Prerequisite: ART220 or COM263.

COM 332 - Social Foundations of Advertising

(3 credits; alternate years, consult department) An introduction to social and historical foundations of advertising. Includes a study of the role of advertising in American culture and economy.

COM 340 - News Writing and Editing

(4 credits; alternate years, consult department) Principles of clear and forceful journalistic writing. Includes fact gathering, story planning, lead and head writing. Attention to editing for improved copy, headline writing, and selection of photographs and art work.

Prerequisite: COM185 or permission of instructor.

COM 355 - Organizational Communication

(4 credits; alternate years) Examination of the role of communication within and between organizations. Attention to communication tasks within an organization such as news releases, memo writing, conducting meetings, and communicating to an organization's constituencies.

COM 365x - Acting for the Camera

(3 credits; alternate years, consult department) Study and practice of acting skills and techniques in front of cameras using scenes from television, film, commercials and industrial scripts. Course also includes sections on audition techniques and the business of acting.

Prerequisite: THE215, COM202 or permission of instructor.

Cross-Referenced: Cross-referenced in theatre/ speech.

COM 398 - Directed Study

COM 400 - Advanced Journalism

(3 credits; alternate years, consult department) Theory and practice of writing and reporting for, as well as leading, community newspapers--weeklies and smaller dailies. Topics include investigating local government, reporting on meetings, reporting on religion, developing local sources of information, understanding the roles of the newspaper within the community, forming relationships of trust with sources and readers, and dealing with common ethical issues.

COM 417 - Internship

(4 credits may apply toward the major) Experience in an approved internship.

COM 499 - Honors Research

CSC 100 - Computing Topics

(1 credit) This course covers specific uses for computers and technology in a variety of tasks. Each section of the course exposes students to a different topic. Different sections may be required by different disciplines.

Note: Different sections may be taken for credit, but individual sections may not be repeated for credit.

CSC 102 - Business Computing

(2 credits) This course serves as an introduction to common business- oriented computer technologies and issues. Computer applications, misuse and the ethical use of computers in business are explored in detail. Current software applications are studied through laboratories, demonstrations and assignments. Students will learn advanced uses of application programs including spreadsheet processing and information processing with databases.

CSC 105 - Introductory Spreadsheets

(1 credit) This course covers using spreadsheets to format, sort, and calculate information. No previous spreadsheet experience or knowledge is expected. The course introduces writing custom formulas and using built-in functions to perform calculations and analyze data. Specifically, basic statistical, logical, and financial functions will be covered. Students will also learn how to present information visually using Excel's charting and graphing capabilities.

CSC 110 - Advanced Spreadsheets

(1 credit) This class deals with advanced techniques for using spreadsheets. Topics to be covered including writing conditional formulas, using built-in data analysis tools, creating PivotTables and PivotCharts, exploring and importing data to and from other applications, linking data between other applications, and sharing Excel data on the World Wide Web. Basic computer programming concepts and the role of data analysis tools in business will also be discussed.

CSC 151 - Office Application Programming

(2 credits) This course focuses on the customization and programmability of commonly used business applications. The main topics covered will include writing macros, controlling spreadsheets, databases and other business applications using scripts and short programs, and customizing applications to fit specific business needs.

Prerequisite: CSC102 or permission of instructor.

When Offered: Alternate Years

CSC 171 - Computer Science I

(4 credits) (IGE option under Quantitative Reasoning) This is the first in a two-semester sequence of courses that introduces students to fundamental aspects of the field of computing; focusing on problem-solving, software design concepts and their realization as computer programs. Topics include procedural abstraction, control structures, iteration, data types and their representation. An introduction to a high-level language, for the purpose of gaining mastery of these principles, will be provided in lectures and hands-on laboratory experiences.

Prerequisite: C- or better in MAT090, an ACT math score of 20 or above (SAT 480 or above), or a passing score on the MAT090 placement exam.

CSC 172 - Computer Science II

(4 credits) This course moves students into the domain of software design, introducing principles that are necessary for solving large problems. Here, the classical software design process serves as a basis for treating such topics as abstract data types, specifications, complexity analysis and file organization. Basic data structures and transformations are introduced as representative of the fundamental tools that are used to aid in this process. A high-level language will be used for the purpose of gaining mastery of these principles through lectures and independent hands-on laboratory experiences.

Prerequisite: CSC171.

CSC 200 - Principles of Computer Information Systems

(2 credits; alternate years, consult department) This course outlines the concepts of computer information systems, data as a resource, information technology planning and implementation, and project management. Topics covered include decision theory, information theory, the role of information technology in an organization, evaluation of system performance, the development process, and societal and ethical issues related to information systems design and use.

CSC 210 - Accounting Information Systems

(2 credits; alternate years) This course explores the concepts of information systems support for accounting applications. AIS introduces conceptual data modeling, transaction processing systems, enterprise resource planning systems, business processes, documentation, computer security, internal control systems and cyber ethics from an accountant's perspective.

Prerequisites: ACC215 and CSC102, or permission of instructor.

CSC 270 - Computer Organization

(4 credits; alternate years, consult department) This course explores architecture and computer design issues in modern computers. Part of the course is spent looking at the basic building blocks used to design and build a computer. The rest of the course deals with how to work with the computer at the level of the central processing unit, main memory and registers. Programming assignments are done in assembly language to see what commands the computer really understands.

Corequisite: CSC172.

CSC 280 - Enterprise Architecture

(2 credits; alternate years, consult department) Enterprise Architecture investigates the organizational aspects of enterprise information and communication technology acquisition, implementation and maintenance. This course examines technology infrastructure in an organizational context. Students will evaluate technological frameworks and strategies for managing systems for data, information and content. Middleware, legacy systems, total cost of ownership, technology investment analysis, and emerging technologies will be explored. Students will understand how risk management, audit, compliance and security strategies are used. Students also practice communicating technology topics to both IT and non-IT audiences.

Prerequisites: CSC171 and 172.

CSC 291 - Database Management Systems

(4 credits; alternate years, consult department) This course examines database concepts, theory, design and management. Emphasis will be on the relational model. Topics will also include normalization, query languages, database recovery and security aspects. This course will include experience with a relational database system and programming database access into computer applications via a high-level programming language.

Prerequisite: CSC171.

CSC 300 - Electronic Commerce Development

(4 credits; alternate years, consult department) This course provides an introduction to electronic commerce strategy and the development and architecture of electronic business solutions and their components. Topics covered include the business models and economics associated with e-commerce, system design and implementation, building a Web interface for e-commerce, reliability, security concerns, and legal and ethical issues.

Prerequisite: CSC172.

CSC 321 - Human-Computer Interaction

(4 credits; alternate years, consult department) Human-Computer Interaction (HCI) focuses on how a user interacts with and interprets the interface of a program. A good interface can make an average program seem better than it is, and a poor interface can ruin a technically superior piece of software. This course will include theory and case studies in lecture and practical programming exercises in lab. A final project will combine theory with programming by designing, implementing, testing and evaluating a complete interface to an application.

Prerequisite: CSC172.

CSC 351 - Data Structures

(4 credits; alternate years, consult department) This course deals with data structures and their algorithms. Emphasis is given to good data abstraction and efficiency. The data structures covered include arrays, linked lists, trees, graphs and strings. Other topics covered may include design patterns, analysis of algorithms, and complexity classes. Programming is done in an object-oriented language.

Prerequisite: CSC172.

CSC 361 - Networking

(4 credits; alternate years, consult department) This course introduces the student to the field of computer networking. Students will develop an understanding of the general principles of computer communication as they are worked out in an appropriate protocol suite. Specific attention will be paid to principles of architecture, layering, multiplexing, addressing and address mapping, routing and naming. Problems considered include the writing of network software, the physical construction of networks, the Internet and its future development, and network security.

Prerequisite: CSC172.

CSC 371 - Operating Systems

(4 credits; alternate years, consult department) Introduction to hardware and software related to system organization. Such topics as process management, device management, and memory management are discussed, as are relevant issues associated with security and protection.

Prerequisite: CSC270.

CSC 381 - Programming Languages

(4 credits; alternate years, consult department) This course discusses programming languages from a general viewpoint-what are the properties of all successful programming languages? Also discussed are various programming paradigms: iterative programming, object-oriented programming, functional programming, logic programming, concurrent programming, etc. Programming may be done all in one language (emulate other paradigms), in a few select languages (one for each paradigm), or in a large variety of languages.

Prerequisites: CSC270 and 351.

CSC 398 - Directed Study

CSC 417 - Internship

(2 credits may apply toward the major)

CSC 420 - Special Topics

(3 or 4 credits; alternate years, consult department) This course is for upper-level computer science majors to cover current topics in computer science. Possible topics for this course include computer graphics, compiler construction, parallel processing, high-performance computing, and artificial intelligence.

Prerequisite: junior or senior class standing or permission of instructor.

CSC 450 - Value Issues in Computing

(2 credits) This course focuses on a range of social and ethical issues involved in computer science and computer use. Computer professionals have to face these issues and deal with them in a responsible way. Some issues discussed in the course include ethical decision making, software piracy, software protection, computer crime, privacy, errors and reliability, computers and the workplace, responsibility and reliability, artificial intelligence, and virtual reality.

CSC 470 - Senior Project

(2 credits) This course gives the student an opportunity to branch off into an area of their own selection. The student must obtain approval of a project proposal from a member of the department before registering for this course. The project will require planning, design, and implementation of a computer application in such a way as to integrate the material from computer science courses and courses outside computer science. Students with career concentrations or minors are encouraged to make use of materials from their other subject areas.

CSC 481 - Introduction to Data Analytics

(2 credits) Data analytics is an emerging interdisciplinary area of study focused on making more intelligent decisions through the analysis, interpretation and visualization of large data sets. It is related to, and sometimes used interchangeably with, the terms "data science", "business intelligence" or "business analytics". This course provides an overview of the major concepts and topics in data analytics, including ETL (Extract-Transform-Load) processes, statistical analysis, programming and scripting and visualization.

Familiarity with basic concepts of computer programming, relational databases, and/or statistics is helpful, but not required. The course materials will include an overview of the necessary background material and additional resources will be provided for self-study as needed.

Prerequisites: MAT116 or MAT117, MAT111 or MAT112, and CSC171; or permission of Computer Science department chair.

CSC 482 - Introduction to Text Analytics

(3 credits) Text analytics is the process of analyzing, searching and retrieving unstructured text. Introduction to Text Analytics presents an introduction and overview of the field, incorporating topics such as text preprocessing, categorization and clustering.

Familiarity with basic concepts of computer programming and statistics is helpful, but not required. The course materials will include an overview of the necessary background material and additional resources will be provided for self-study as needed.

Prerequisites: MAT116 or MAT117, MAT111 or MAT112, and CSC171; or permission of Computer Science department chair.

CSC 483 - Introduction to Predictive Analytics

(3 credits) Introduction to Predictive Analytics provides an overview of applied predictive techniques through description, discussion and hands-on exercises. Its purpose is to equip students to effectively apply the right tool to solve data problems too large or difficult to be solved with conventional methods.

Familiarity with basic concepts of computer programming and statistics is helpful, but not required. The course materials will include an overview of the necessary background material and additional resources will be provided for self-study as needed.

Prerequisites: MAT116 or MAT117; MAT111 or MAT112; CSC171, CSC481 and CSC491.

CSC 491 - Advanced Data Analytics

(4 credits) Data analytics is an emerging interdisciplinary area of study focused on making more intelligent decisions through the analysis, interpretation and visualization of large data sets. It is related to, and sometimes used interchangeably with, the terms "data science", "business intelligence" or "business analytics". This course provides an overview of the major concepts and topics in data analytics, including ETL (Extract-Transform-Load) processes, statistical analysis, programming and scripting, and visualization.

Familiarity with basic concepts of computer programming, relational databases, and/or statistics is helpful, but not required. The course materials will include an overview of the necessary background material and additional resources will be provided for self-study as needed.

Prerequisites: MAT116 or MAT117, MAT111 or MAT112, CSC171; or permission of Computer Science department chair.

CSC 492 - Advanced Text Analytics

(3 credits) Advanced Text Analytics will provide a thorough exposition of text analytic techniques, with a focus on classification, information retrieval and extraction as well as predictive text analytics.

The purpose of Advanced Text Analytics is to provide an in-depth examination of the text analytics field and draw the course material together into a project.

Familiarity with basic concepts of computer programming is expected. Although not a formal prerequisite, CSC482 Introduction to Text Analytics is recommended.

Prerequisites: MAT116 or MAT117, MAT111 or MAT112, CSC171 and CSC482.

CSC 493 - Advanced Predictive Analytics

(3 credits) Advanced Predictive Analytics is an exploration of effective statistical, data-driven, machine-learning techniques that produce useful patterns and correlations. Those patterns and correlations are beneficial for evaluating potential courses of action through predicting prospective outcomes.

The purpose of the course is to prepare students to know the correct approach to use in a given set of circumstances, to understand why the approach is correct and to wisely place the use of the approach within the context of organizational utility. The course culminates in a project using one of the approaches of the course.

Familiarity with basic concepts of computer programming and statistics is expected. Although not a formal prerequisite, CSC483 Introduction to Predictive Analytics is recommended.

Prerequisites: MAT116 or MAT117, MAT111 or MAT112, CSC171 and CSC483.

CSC 499 - Honors Research

ECO 101 - Survey of Economics

(4 credits) (IGE option under Self and Society) This is an introductory course in economics which will cover both microeconomics and macroeconomics topics. The course will explore economic institutions, how they came to be, how they have changed over time, and how the government modifies them.

Note: The course is not open to business or economics majors.

ECO 213 - Principles of Microeconomics

(4 credits) Microeconomics deals with price determination and how the price system functions. Supply and demand, output, competition, monopoly, resource pricing, international trade and finance will be studied.

ECO 214 - Principles of Macroeconomics

(4 credits) Macroeconomics concerns itself with economic aggregates such as inflation, unemployment, recessions, national debt, and international trades. Macroeconomic models will be introduced. These models will be used to understand the application of monetary and fiscal policy.

Prerequisite: ECO213.

ECO 301 - Money and Banking

(4 credits) This course is designed to increase understanding of how banks and the banking system fit into the entire economic system. The functions of money, the federal reserve system, monetary theory, inflation and the international financial system will be taught.

Prerequisites: ECO213 and 214.

ECO 302 - Labor Economics

(4 credits; alternate years, consult department) This course will look at labor productivity, determination of wages, demand for labor, labor migration, unions, government in the market place, discrimination and unemployment.

Prerequisites: ECO213 and 214.

ECO 305 - Current Economic Problems

(3 credits; non-yearly, consult department) This is an upper-level discussion course designed to require students to apply economic principles and policies to issues confronting economists in business and government. Both micro and macro concepts are explored. Controversial issues to be confronted include the extent of government involvement in the economy, energy, employment, inflation, deficits and world trade.

Prerequisites: ECO213 and 214.

ECO 314 - Intermediate Macroeconomics

(4 credits; alternate years, consult department) Builds on the concepts of inflation, unemployment and economic growth learned in principles level macroeconomics. Introduces models with which the student will become more proficient in understanding how the economy works.

Prerequisite: ECO214 and MAT111 or 112.

ECO 315 - Intermediate Microeconomics

(4 credits; alternate years, consult department) This course will examine economic theory and methodology with emphasis on the principles of price determination, consumer behavior, market equilibrium, optimality of resource allocation, production and costs, comparison of market structures, and the behavior of firms in nonperfect competition.

Prerequisite: ECO213 and MAT111 or 112.

ECO 333 - International Economics

(4 credits) This course is a study of the theory and practice of international trade, international economic and monetary activity, balance of trade international payment mechanisms, exchange rate systems, functions of the International Monetary Fund, and the World Bank.

Prerequisites: ECO213 and 214.

ECO 390 - Game Theory

(4 credits; alternate years, consult department) This course is an introduction to and survey of the theory of games (multiperson decision theory) and its applications, primarily in economics. The Nash equilibrium concept will be carefully developed to provide a basis for analyzing various forms of strategic interaction. Areas of application will include oligopolistic markets, common resource markets, stock market microstructure and corporate takeovers. In addition to economic applications, we will use game theory to explore selected political, social and religious issues.

Prerequisites: MAT111 or 112, or permission of instructor.

ECO 398 - Directed Study

ECO 417 - Internship

(4 credits may apply toward the major)

ECO 499 - Honors Research

EDU 102 - Foundations of Education

(2 credits) This course provides philosophical, historical, social and economical foundational background for students considering the teaching profession.

Note: This course includes a field experience.

EDU 202 - Early Field Experience

(1 credit) This course requires 25 clock-hours of field experience with a certified teacher in an area school.

Note: Graded on a pass/no pass basis.

Prerequisite: EDU102.

EDU 203 - Early Field Experience-Middle School

(1 credit) This course requires 25 clock-hours of field experience with a certified teacher in an area middle school.

Note: Graded on a pass/no pass basis.

Prerequisite: EDU102

EDU 206 - Survey of Exceptional Individuals

(3 credits) This course provides an overview of the history of special education up to and including present day trends and practices in education students with exceptionalities. Various areas of exceptionality are explored, including ways to support students with diverse learning and behavioral needs in inclusionary environments.

Note: This course includes 10 hours of field experience.

EDU 221 - Growth and Development of the Middle School Aged Student

(3 credits, alternate years, consult department) The middle school growth and development primarily embraces the knowledge of the learner component of the professional knowledge base with concentration, identification and comprehension of the physical, psychosocial, and cognitive characteristics of the middle school aged student. This course includes a 5 hour field experience.

EDU 227 - Instructional Technology

(1 credit) This course studies the impact and uses of media and technology in educational settings. Use and operation of AV equipment will be taught. Emphasis is placed on the various ways the computer can be used in teaching. Current and future use of technology in education will be addressed.

EDU 228 - Children's Literature

(2 credits) This course focuses on the history of children's literature and its uses in the classroom. This course provides an introduction to the criteria and selection of Children's literature for elementary school students. Various genres are detailed, and ideas for curriculum integration are discussed. A study of illustrations and authors is included.

Note: This course includes 5 hours of field experience.

EDU 229 - Introduction to Early Childhood

(3 credits) This course provides an overview of the field of early childhood education. Included in its overview will be the study of the historical background and current trends, child development-birth to eight years, philosophies of early childhood education teaching, and issues in early childhood education. Early childhood curriculum design in the areas of language arts, math, science, social studies and the creative arts is incorporated in this course.

Note: While this course includes 25 hours of field experience, the entire early childhood endorsement includes 100 hours of field experience.

EDU 230 - Organization and Administration of Early Childhood Programs

(3 credits) This course presents the knowledge of child-family-school-community relationships including familiarity with various community agencies providing services for preschool children. Research for helping develop a good early childhood program will be incorporated. Also included will be licensing procedures, physical environment, personnel and curriculum development, funding, and evaluation. Careers available in the early childhood field will be explored.

Note: While this course includes 25 hours of field experience, the entire early childhood endorsement includes 100 hours of field experience.

EDU 235 - Characteristics of Learners with Mild and Moderate Disabilities

(3 credits) An overview of mild/moderate disabilities including historical and theoretical perspectives. Designed for students seeking reading, unified early childhood and special education endorsements.

Prerequisite: EDU206.

EDU 300 - Characteristics of Young Children with Diverse Needs

(3 credits, alternate years, consult department) The purpose of this course is to assist the pre-service teacher in acquiring information and developing skills in regard to working with the young child (ages 0-8) who has special needs. This course will examine normal and atypical patterns and sequences of development in infants and toddlers in the cognitive, language, motor, social, emotional, behavioral and sensory domains. Normal and atypical etiology will be examined. Developmental delays will be examined through various assessment methods. Early identification techniques, interventions and service delivery models will be examined. The medically fragile child as well as the child with multiple disabilities will be discussed in regard to assessment, interventions and service delivery models.

Note: This course includes 25 hours of field experience.

Prerequisites: EDU102 and 206.

EDU 301 - Methods for Working with Young Children with Diverse Needs

(3 credits, alternate years, consult department) The purpose of this course is to assist the pre-service teacher in developing methods for working with young children with special needs. This course will ask students to demonstrate mastery of the applied competencies in the unified early childhood program, focusing on interdisciplinary, inclusionary, and family centered practices.

Note: This course includes 25 hours of field experience.

EDU 304 - Educational Psychology

(2 credits) The application of psychological principles to the learner, the learning process and the learning situation.

Prerequisites: EDU102, PSY221 or 224, and junior class standing.

EDU 307 - General Methods in Secondary Education

(3 credits) The principles and methods of teaching at the secondary level, including lesson plans, teaching skills, reading in the content area, classroom management, evaluation and school law.

Note: This course includes field experience. Students must earn a "C" or better in this course in order to fulfill program requirements for secondary licensure.

Prerequisite: sophomore class standing and admission to the teacher education program.

EDU 308 - Special Methods in Major

(2 credits, alternate years, consult department) A study of the content, techniques, and materials in the student's major field needed to qualify for secondary teacher certification. Biology, chemistry and natural science majors see course offering under NSC308. Economics, history, political science, social science and sociology majors see course offering under SSC308. Kinesiology majors see course offering under KIN318. All other majors see course offering, number 308, under your major department.

Note: Students must earn a "C" or better in the special methods course in order to fulfill program requirements for secondary licensure.

EDU 309 - Transition for Students with Mild to Moderate Disabilities

(2 credits, alternate years, consult department) A study of the job opportunities and training for the adolescent mentally disabled student.

Prerequisites: EDU206 and 235.

EDU 312 - Middle School Methods and Curriculum

(3 credits, alternate years, consult department) This course focuses on the philosophy of the middle school, organization of the curriculum, effective teaching strategies, and assessment. This course includes a 5 hour field experience.

Prerequisite: junior class standing.

EDU 314 - Working with Parents

(2 credits, alternate years, consult department) This course is designed to investigate approaching trends and issues pertinent in developing professional relationships between the special education staff and other individuals associated with the special needs learner.

Prerequisite: EDU206.

EDU 315 - Behavior Management and Classroom Instruction

(3 credits) This course is designed to provide an overview of various models for classroom and behavior management. The course will emphasize both theoretical and practical dimensions of behavior and social concerns.

Note: This course includes a 10 hour field experience.

Prerequisite: EDU206.

EDU 318 - Diagnostic Assessment, Teaching and Evaluation of Special Education Students

(3 credits, alternate years, consult department) A study in the purposes, procedures and issues related to screening, testing and evaluation of special needs students. The course will include a study of diagnostic instruments used by the profession.

Prerequisite: EDU206.

EDU 319 - Communication and Collaborative Partnerships for Special Educators

(2 credits, alternate years, consult department) This course provides strategies for working with regular classroom teachers, support services, personnel, paraprofessionals and other individuals involved in the educational program.

Prerequisite: EDU206.

EDU 323 - Teaching Mathematics

(3 credits) A study of materials, lesson design, methods, and procedures for the teaching of mathematics at the elementary and middle school levels are the primary points of study for this course.

Note: A ten hour practicum experience is a key component of this course.

Prerequisite: admission to the teacher education program.

EDU 325 - Teaching Science and Social Studies

(3 credits) Foundational course for teaching science and social studies in the elementary classroom. Methods and materials will be developed as they relate to modern practices of teaching science and social studies. This course will focus on the broad range of topics covered in this curricular area.

Note: This course includes field experience.

Prerequisite: admission into teacher education program.

EDU 326 - Teaching Reading and Language Arts

(3 credits) Lesson design and methods for the teaching of language arts are the primary points of study for this course. Specifically, this course addresses how to teach reading, writing, spelling, handwriting, and grammar.

Note: This course includes 10 hours of field experience.

EDU 327 - Classroom Management for Secondary Teachers

(1 credit) The objective of this course is to teach students effective strategies for organizing and managing an effective classroom. Included in this course are guidelines for organizing your classroom and materials, choosing rules and procedures, maintaining appropriate student behaviors, managing student work and planning and conducting instruction. Students will interview classroom teachers to discover management strategies that have worked effectively for them.

EDU 328 - Teaching Science in the Elementary Classroom

(3 credits) Foundational course for teaching science in the elementary classroom. Methods and materials will be developed as they relate to modern practices of teaching science. This course will focus on a broad range of topics covered in this curricular area, including earth/space science.

Note: This course includes field experience.

Prerequisites: admission into teacher education program and concurrent enrollment in EDU343.

EDU 329 - Teaching Social Studies in the Elementary Classroom

(2 credits) Foundational course for teaching social science in the elementary classroom. Methods and materials will be developed as they relate to modern practices of teaching social studies. This course will focus on the broad range of topics covered in this curricular area, including economics and civic literacy. This course includes field experience.

Prerequisite: admission into teacher education program.

EDU 336 - Methods and Strategies for Learners with Mild and Moderate Disabilities (Elementary)

(3 credits, alternate years, consult department) This course is designed to prepare pre-service teachers to develop and implement intervention strategies as well as appropriate accommodations and modifications to address students' exceptional learning and behavioral needs at the elementary school level. Pre-service teachers will also develop/refine skills in IEP writing, incorporating assessment and evaluation information as well as input from parents/families.

Note: This course includes a 10 hour field experience.

Prerequisites: EDU206 and 235.

EDU 337 - Methods of Working with Students with Mild/Moderate Disabilities at the Secondary Level

(3 credits, alternate years, consult department) This course prepares college students to teach students with exceptional learning needs at the secondary level. A practicum experience of ten hours is required.

Note: This course includes field experience.

Prerequisites: EDU206 and 235.

EDU 340 - Human Relations

(3 credits) Major issues and concepts associated with living in a culturally diverse society and teaching in culturally diverse schools will be clarified. Students will consider ways in which ethnicity, gender/sexuality, social class, and religion intersect and influence beliefs and behaviors.

Note: A 20 hour experience, both in schools and outside of schools in diverse settings is a key component of this course.

EDU 343 - Diagnosis and Correction of Reading Problems

(3 credits) This course focuses on the role of the assessment and remediation of reading problems. Students will study the design, development, implementation and evaluation of remediation for students with reading problems, including diagnostic and prescriptive procedures for individuals and groups of students. Formal and informal assessment procedures will be examined.

Note: A 10 hour practicum experience is a key component of this course.

Prerequisites: EDU326, admission into teacher education program, and concurrent enrollment in EDU328.

EDU 345 - Language Learning and Reading Disabilities

(3 credits) This course focuses on learning oral language and the implications that has for learning written language. A major part of the course is devoted to designing effective remedial education programs for Title I and special education. Special attention is paid to early intervention programs. This is an upper level course, designed for students completing reading and special education endorsements.

Note: This course includes field experience.

Prerequisites: EDU326 and 343.

EDU 347 - Reading in the Content Area

(2 credits) This course addresses skills necessary in teaching students to read in social studies, math, science, and other content areas. This course offers strategies for vocabulary, comprehension, study skills, writing, assessment, and more.

EDU 398 - Directed Study

EDU 406 - Student Teaching in Reading

(1-4 credits) A supervised experience in an elementary or secondary classroom under a certified reading teacher.

Note: Graded on a pass/no pass basis.

Prerequisites: EDU343 and 347.

EDU 407 - Early Childhood Student Teaching

(1-4 credits) Observation, participation and teaching students in both pre- kindergarten and kindergarten settings.

Note: Graded on a pass/no pass basis.

Prerequisites: EDU229 and 230, and KIN104 or current first aid and infant child CPR certification.

EDU 408 - Paraprofessional Practicum

(4-8 credits) A 4-16 week classroom experience in an elementary classroom under a certified teacher. The satisfactory completion of this experience will allow the student to complete the elementary major but the student will not be recommended for teacher licensure.

Note: Graded on a pass/no pass basis.

EDU 409 - Philosophy of Education

(2 credits) The liberally educated Christian teacher is the knowledgeable servant of God and society and this course examines critically the reasoning behind policies and methods of teaching, learning and schooling. Various schools of thought are discussed, including a distinctively Christian perspective, to assist students in their personal response to these issues as they serve as professional teachers.

Prerequisite: admission into teacher education program.

EDU 410 - TESL Student Teaching

(1-4 credits) A four-week K-12 classroom experience in observation, participation and teaching students who have English as a second language.

Note: Graded on a pass/no pass basis.

EDU 411 - Student Teaching in the Middle School

(4-8 credits) A 4- to 8-week classroom experience of observation, participation and teaching in grades 6-8. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 413 - Elementary Student Teaching

(4-16 credits) A 4- to 16-week classroom experience of observation, participation and teaching in an elementary classroom. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 415 - Secondary Student Teaching

(4-16 credits) A 4 to 16-week classroom experience of observation, participation and teaching in a secondary classroom. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 416 - Vertical Student Teaching

(4-16 credits) A 4- to 16-week classroom experience of observation, participation and teaching grades K-12 in art, music, kinesiology or Spanish. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 426 - Elementary Special Education Student Teaching

(4-8 credits) A 4- to 8-week experience of observation, participation and teaching students in the elementary special education classroom. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 428 - Secondary Special Education Student Teaching

(4-8 credits) A 4- to 8-week experience of observation, participation and teaching students in the secondary special education classroom. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

EDU 429 - Unified Early Childhood Student Teaching

(4-8 credits) This practicum endorses the student to become a teacher in an elementary multicategorical resource program for children from birth to third grade by preparing the student to schedule, evaluate, collaborate, write IEPs and IFSPs, and to develop strategies to address special needs of children. The number of weeks/credits required for student teaching will be determined by the coordinator of student teaching and the chair of the department.

Note: Graded on a pass/no pass basis.

Prerequisite: KIN104 or current first aid and infant child CPR certification.

EDU 499 - Honors Research

ENG 184 - College Writing

(4 credits) An introduction to academic writing, emphasizing the writing process. Students learn strategies for pre-writing, drafting, and revising of expository essays. The course includes analysis of model essays and discussion of model essays and an introduction to research-based writing.

Note: This course does not count toward an English major or minor.

ENG 221 - Responding to Writing

(2 credits) This course will enable students to develop a theorized practice for responding to writing. Students will study methods of response, conferencing strategies, approaches to revision, English as a Second Language (ESL), interpersonal dynamics, and the ethics of text intervention. As a course requirement, students must satisfy a practicum commitment by working a minimum of one hour per week (for pay) in the Writing Center.

Prerequisite: recommendation of a writing instructor.

When Offered: Every fall.

ENG 225 - Literature of the Developing World

(4 credits, alternate years, consult department) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

To paraphrase Salman Rushdie, the Empire has written back. The last half of the 20th century has produced a number of literary texts written in English by authors from the recently independent nations of the Old British Empire. These texts have proved so rich in both literary value and cultural context that their authors, Wole Soyinka, Derek Walcott, Chinua Achebe, and Rushdie himself, have won the most prestigious literary prizes available. We will be reading and appreciating these books, both as ripping good yarns, and as significant cultural documents that teach us much of how members of other societies think, feel, and act.

Prerequisite: ENG250LC.

ENG 235 - Introduction to Rhetorical Studies

(2 credits) This course functions primarily as an introduction to rhetoric and rhetorical analysis. It is designed to introduce students to the major and the minor in writing and rhetoric. Topics include the rhetoric of ancient Greece, definitions of rhetoric, past and present, rhetorical analysis of texts, and analysis of the rhetor's purpose, situation, genre and audience.

Note: Students should attempt to take at least one other course that includes significant writing assignments during the same semester.

ENG 238 - Literature and Film

(4 credits, alternate years, consult department) (IGE option under Aesthetic Experience) The course introduces students to the art of adaptation of texts. Although we are frequently viewers of film, we are not always good readers and interpreters of visual texts. Students in this class will read original literary texts and then view the film adaptations of those texts. Through class discussion and writing about adaptations, students will learn how to read a film intelligently and understand the place of film as a literary form.

Prerequisite: ENG250LC.

ENG 250LC - Literary Imaginations

(4 credits) (Fulfills IGE Literary Contexts requirement) **ENG250LC** offers students an introduction to literary study. The topics of individual sections vary by instructor and semester. After completing this writing-intensive course, students will be able to imagine other lives, times, and places by reading a variety of texts; empathize with characters who have diverse stories and perspectives; analyze different genres of literature using the tools of literary study; craft a coherent essay with a clear thesis and careful textual analysis; articulate ways that literature speaks to and informs their own lives; express delight in God through the beauty of language and literary text; and witness God's presence in the world through literature. Topics include:

Literary Imaginations: For literature to be more than ink stains on white paper, we must use our imaginations to give it life. In this course we shall read works from throughout human history and around the world (India, Greece, Italy, England, Russia, Nigeria, Ireland, Japan) to imagine and understand the world that people have believed in, created, and inhabited.

Reading, Spirituality and Cultural Politics: This course explores how literature can entertain, educate, change, and empower readers. The assignments are designed to refine college writing skills and to deepen students' critical knowledge and imaginative experience of literature. The end goal of this course is that in learning to understand and serve their literary neighbors, students will be better equipped to understand and serve their literal neighbors.

ENG 277 - Teaching Literature to Adolescents

(2 credits, alternate years, consult department) A study of and practice in the teaching of literature, especially literature appropriate for young adults, with the goal of preparing students to teach English in junior high and high school. Topics: selecting literature, eliciting response, oral interpretation, integrating the language arts, and assessment.

Note: Students taking ENG308x should take this course during the same semester.

Prerequisite: ENG250LC. ENG292 is also recommended.

ENG 280 - Shakespeare

(4 credits; alternate years) William Shakespeare never attended college, yet he saw the world sharply in his mind's eye. He wrote piercingly about kings and college students, warriors and witches, goblins and gravediggers; his 1,000 characters have never been off the stage in 400 years. In this course we read eight plays which fathom the range of human experience and take the English language to the height of expressive beauty.

Prerequisite: ENG250LC.

ENG 283 - Grammar in the Classroom

(2 credits) Most middle schools and high schools expect their English teachers to teach writing and grammar. What are the goals of teaching grammar? What grammar should young writers know? This course takes a rhetorical approach to the study of grammar and to its use in the teaching of writing.

Prerequisite: IGE101 and sophomore standing.

ENG 288 - Writing in the Professions

(2 credits) A study of professional writing. In a writing workshop setting, students will learn to adjust style, tone and content to accomplish a definite purpose with an identified audience. They will also learn strategies for creating texts that are clear, concise and accurate. The course is especially useful for those whose career goals require facility in written communication, such as those studying marketing, public relations, advertising, management or law. All students will choose a professional to be their mentor on a writing project related to the career they are interested in. Students will also build a small portfolio of professional writing that includes letters, a memo, a resume and a research report.

Prerequisite: sophomore class standing.

ENG 290 - The Art of the Essay

(2 credits) A study of some of the best contemporary American non-fiction writing on such subjects as politics, the arts, religion, natural science and medicine. Students write on similar topics and develop their own style by emulating such models.

Prerequisites: sophomore class standing or permission of instructor.

ENG 292 - Introduction to Narrative and Verse

(4 credits) Students will be introduced to the foundations of reading and writing narrative and verse (fiction and poetry) and will, through an exploration of a wide range of styles, come to understand both the historical aspects of each genre (i.e. how the art's been practiced and done before) and how those genres are currently practiced (i.e. what's poetry and fiction look like today?). Students will learn to read work closely and actively, as writers, and will learn how to be in communication (both written and oral) with text.

ENG 297 - The Rhetoric of Persuasion

(4 credits) A study of the methods of persuasion: logical and emotional appeals and trustworthiness, ways of structuring arguments, and persuasive style. Students will learn to create and critique arguments on a variety of subjects.

Prerequisites: sophomore class standing or permission of instructor.

ENG 308x - Methods of Teaching Secondary English and Speech

(2 credits, alternate years, consult department) A study and practice of methods for teaching English and speech in high school and junior high school. Topics include language and language learning, composition, oral language, planning, curriculum and assessment.

Note: Does not count toward a major or minor.

Prerequisites: EDU102 and ENG250LC.

Cross-Referenced: Cross-referenced in theatre/speech.

ENG 345 - Linguistic Perspectives on English

(4 credits, consult department) Where did our language come from? How did English get the biggest vocabulary of any modern language? How are the words joust, yoke, and yoga related? Why is English spelling so irregular? Are there bad words? This course traces the 1500 year development of our language, from the Germanic tongue of Beowulf to the Frenchified language of Chaucer, to the many varieties of modern English spoken around the world.

ENG 346 - American Literature I

(4 credits, alternate years, consult department) A study of prose and poetry in the United States from America's beginnings through the end of the Civil War. The course will focus on the works of Colonial and Romantic writers and the literatures of Native and African Americans. Special attention will be given to defining the qualities and concerns that make this literature distinctively "American."

Prerequisite: ENG250LC.

ENG 347 - American Literature II

(4 credits, alternate years, consult department) A study of prose and poetry in the United States from the Civil War until the present. The course will study works by realists (including regionalists) and modernists, as well as contemporary writers.

Prerequisite: ENG250LC.

ENG 350 - Reading and Writing Short Fiction

(4 credits, alternate years, consult department) Students will explore the nature and design of fiction by studying and analyzing a range of short fictional genres, learning to read fiction the way its writers read it, and participating in a fiction writing workshop. Attention will be given to purposes of language, to relationships between reading and writing, and to narrative as a mode of thinking and an expression of culture.

Prerequisite: ENG292 or permission of instructor.

ENG 351 - Reading and Writing Creative Nonfiction

(4 credits; alternate years, consult department) Students will explore the broad and flexible genre of creative nonfiction, from the works of Montaigne, originator of the modern essay, to the lyric essay and works that stretch and blur the line of nonfiction. Attention will be given to the use of language, sentence structure, metaphor and scene, pushing narrative beyond surface description to deeper meaning.

Prerequisite: ENG290 or permission of instructor.

ENG 352 - Reading and Writing Poetry

(4 credits; alternate years, consult department) Students will actively explore the nature and design of poetry by studying a range of poetic genres and styles, learning to read poetry as writers do, and writing poetry in a writing workshop. Attention will be given to the purposes of language, to relationships between reading and writing, and to poetry as a mode of thinking and an expression of culture.

Prerequisite: ENG292 or permission of instructor.

ENG 376 - Medieval Literature

(4 credits, alternate years, consult department) The Middle Ages was a Christian millennium. Authors, philosophers, astronomers and economists pursued their calling within a Christian worldview and a Catholic power structure. When warlike Anglo-Saxons imagined the crucifixion, they saw a heroic prince stripping for battle and mounting the cross in triumph. Medieval dramatists recreated the entire pageant of biblical history on a long summer's day. In this course we read literary and historical works by both men and women, including *Beowulf*, *Sir Gawain and the Green Knight*, and *The Canterbury Tales*.

Prerequisite: ENG250LC.

ENG 377 - English Renaissance Literature

(4 credits, alternate years, consult department) Like our own age, the Renaissance saw spiritual perspectives and secular perspectives in conflict and in synthesis. Writers, like seafarers, expanded our understanding of what it is to be human in this world. In this course we read plays, speeches, and poems by such authors as Shakespeare, Elizabeth I, Donne and Milton.

Prerequisite: ENG250LC.

ENG 378 - English Nineteenth-Century Literature

(4 credits, alternate years, consult department) The industrial revolution resulted in an urbanized, more literate population. Writers of the time sought to reach a popular audience in a way unparalleled in English literary history. We shall read Austen, Wordsworth, Dickens, Eliot and their contemporaries, examining what they thought of and had to say to the common people of their day.

Prerequisite: ENG250LC.

ENG 379 - English Twentieth-Century Literature

(4 credits, alternate years, consult department) England was largely depopulated of young men and nearly reduced to rubble by two world wars. The nation that arose, stripped of its empire, has continued to be a literary center. We shall read Shaw, Yeats, Eliot, Heaney and others, examining how they have analyzed and expressed the modern human condition.

Prerequisite: ENG250LC.

ENG 380 - Special Topics in Writing

(2-4 credits) Specific subject matter of this course will vary from semester to semester, but will always focus on an issue in composition studies or a genre of writing. Courses will include both readings and student writing within the genre and will be designed to welcome both majors and non-majors.

Note: The course may be taken more than once as long as the topic of study is different, and will count toward the advanced writing course general education requirement.

Prerequisite: ENG290 or ENG292 or permission of the instructor.

ENG 385 - Literature of Place

(4 credits, alternate years, consult department) Some writers are especially interested in the ways people transform places and the ways places influence people. The elements of a place--the mountain ranges, shopping malls, grasslands, forests, migratory patterns of animals, rush of automobiles, or the portals of cyber-places-- shape the imagination. This course examines significant literary works, especially non-fiction, that explore the relationship between persons and places. In particular, we will examine the tension between the writer's need to construct definitions of "home places" and how the places themselves respond to human "home making."

Prerequisite: ENG250LC.

ENG 386 - The Other America

(4 credits, alternate years, consult department) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

America is home to a variety of peoples and literatures; this course focuses on the development of literatures produced by those outside the Anglo-European tradition whose experiences tell a different story about America. The goal of the course is to enrich students' views of the content of American Literature and to familiarize them with a culture or cultures with which they may not be conversant. The course may be taught as African American, Native American, Asian American, or Hispanic American literature. Alternatively, the instructor may choose to focus on literatures in contact and conflict with one another, for example, the turbulent confluence of Native American, Anglo, and Hispanic Literatures of Nueva España.

Note: See the instructor for the specific offering before enrolling. This course may be taken more than once, provided a different literature is studied.

Prerequisite: ENG250LC.

ENG 387 - Special Topics in Rhetoric

(2-4 credits, non-yearly, consult department) Specific subject matter of this course will vary from semester to semester, but will always focus on an issue in rhetorical studies or a genre of writing. Courses with writing as their emphasis will include both readings and student writing within the genre.

Note: The course will be designed to welcome both majors and non-majors. The course may be taken more than once as long as the topic of study is different.

ENG 390 - Introduction to Publishing

(4 credits) Students will gain an understanding of nonprofit and commercial publishing, including content acquisition, editing, production, marketing, and distribution of print and digital publications. This will be done through a combination of lecture and discussion connected to readings of selected texts as well as participation in the publishing of a digital and print publication called *Cardboard* magazine.

Prerequisites: ENG290, ENG351, COM185, COM260 or COM261, or permission of instructor.

ENG 395 - Advanced Publishing

(4 credits) Students will gain a working knowledge of digital and print magazine publishing. This will be done primarily through assigned writing projects and peer reviews, as well as assigned duties related to the production of *Cardboard* magazine. Duties vary and may include contacting freelance writers from other Christian college campuses, solicitation of manuscripts, reading manuscripts for suitability of publication, website updating, blogging, interviewing subjects, participation in marketing and public relations projects, research, production of digital content, as well as administrative details.

Prerequisite: ENG390 or permission of instructor.

ENG 398 - Directed Study

ENG 401 - History and Theory of Rhetoric

(4 credits) Designed to provide solid grounding in Greek and Roman rhetorical theory and practice including studies in pre-literate rhetoric and the theories of Aristotle and Plato, among others. Some attention is also given to the Christianizing of rhetorical theory during the Middle Ages. Finally, the course concludes with the examination of trends in contemporary rhetoric studies and topical applications.

Prerequisite: junior class standing, ENG235 recommended.

ENG 410 - Seminar in Interpretation

(4 credits, alternate years, consult department) In this course we study basic problems in understanding literary texts. We explore solutions offered by various critical schools (structuralism, psychoanalysis, New Historicism, reception-aesthetics), examining both their inherent logic and their applicability to a particular text.

ENG 417 - Internship

(4 credits may apply toward the major)

ENG 420 - Advanced Writing Project

(4 credits; alternate years, consult department) The heart of the course is an advanced project in artistic, journalistic, or scholarly writing. Students also assemble a portfolio of their best writing and related work, plan writing or study beyond college, and read to gather perspectives on their vocation.

Prerequisite: ENG292 and one of the following: ENG350, 351 or 352.

ENG 480 - Special Topics in Literature and Culture

(4 credits, non-yearly, consult department) In this seminar we analyze interpretive problems in literature and their relation to cultural theories and conditions. Particular attention is given to questions germane to Christian experience and thought.

Note: Specific subject matter will vary from year to year and might include such topics as a literary period, a national literature, a specific author, or literary genre. This course may be taken more than once provided a different topic is studied.

ENG 499 - Honors Research

ESL 101 - Introduction to American Culture

(2 credits) An introduction to American cultural traits and social and religious customs for international students beginning their studies in the United States. Special focus will be given to local Midwestern culture and rural issues.

Note: This course is limited to students studying English as a second language.

ESL 201 - Oral English

(4 credits) Extensive training and practice in speaking English and comprehending spoken English. Emphasis upon the development of listening comprehension strategies, idiomatic vocabulary, and skills in rephrasing, interrogation, and verification. Each student will be pretested in pronunciation, listening comprehension, speaking and vocabulary. Tutorials and materials appropriate to the student's present proficiency will be utilized, as well as large group presentations and activities.

Prerequisite: This class is open only to ESL students with a concurrent enrollment in ESL101, or permission of instructor.

ESL 202 - ESL Bible

(4 credits) The Bible is the foundation for the Jewish and Christian traditions, and has powerfully influenced every dimension of Western Civilization. By studying the Bible, students gain access to the heart of the Judaic-Christian traditions and build a foundation for better understanding Western philosophy, literature, art, music, law and history. In this course, ESL students read selections from the English Bible as well as short excerpts from pieces of Western Literature that have been inspired by the Bible. The aim is both to improve English reading, writing, and speaking skills and also better appreciate the cultural importance of the Jewish and Christian scriptures. Time permitting, students may rehearse and perform in English a short one-act drama based upon a classic Bible story.

Prerequisites: ESL101, 201, and 203, or permission of instructor.

ESL 203 - ESL Writing

(4 credits) The study and practice of formal and informal modes of written communication accepted in American academic work. Intensive work will be done to develop fluency in writing and reading, expand vocabulary, diagnose and remediate grammatical deficiencies and train students to identify and correct their own mistakes.

Prerequisite: this class is open only to ESL students with a concurrent enrollment in ESL201 or ESL251, or permission of instructor.

ESL 204 - ESL Literature

(4 credits) A study at the intermediate level of English language literature, emphasis will be placed on the development of reading skills and reading strategies through an introduction to literature in the English language. Students will learn how to effectively read a literary text in English, including the development of vocabulary and grammar recognition.

Prerequisites: ESL101, 201, and concurrent enrollment in ESL203, or permission of instructor.

ESL 205 - Business English

(2 credits) This course is designed to meet the needs of international students who intend to study business at an American institution or whose primary reason in learning English is for conducting business. The course focuses on learning business concepts and terminology as well as improving communication skills.

Prerequisites: ESL251 or 201, and concurrent enrollment in ESL203, or permission of instructor.

ESL 206 - English for Academic Purposes

(4 credits) This course is designed to meet the needs of international students who intend to pursue undergraduate and/or graduate studies in the United States. The course focuses on preparing students for the demands of academic lecture comprehension, note-taking, and also on improving writing skills in evaluating and organizing material as well as predicting upcoming information. In addition, students will practice reading strategies to improve textbook comprehension.

Prerequisites: ESL101, 201, and 203, or permission of instructor.

ESL 251 - Advanced Oral English

(4 credits) Continued training and practice in speaking English and comprehending spoken English. Emphasis upon the development of listening comprehension strategies, development of idiomatic vocabulary, skills in paraphrasing, initiating conversation, interrogation, note taking and verification, and the writing of short essays on comparative-cultural topics. Training and practice in college reading strategies toward the dual goal of increased speed and comprehension. Individual work on pronunciation problems.

Note: Required of students with TOEFL scores under 525.

Prerequisite: This class is open only to ESL students with the prerequisite of ESL201 or permission of instructor.

GEN 141 - Leadership I

(2 credits) Leadership I will introduce students to the idea of servant leadership. Students will work with professors and mentors to understand and learn to practice servant leadership. Reading, reflection, and service learning components will be incorporated into the class. Students will begin planning for the NWC College Leadership Conference. It is hoped that students will also sign up for Leadership II following the completion of Leadership I.

GEN 142 - Leadership II

(2 credits) Leadership II will continue teaching and helping students learn about the concept of servant leadership. The class will finish planning and implement the NWC College Student Leadership Conference. Reading, reflection, and service learning components will be incorporated into the class.

Prerequisite: GEN141.

GEN 205 - Interdisciplinary Honors Seminar

(2 credits) A seminar designed to expose Honors Program students to significant issues by means of interdisciplinary study of selected topics chosen on a year-to-year basis.

Note: May be taken more than once provided a different seminar is offered. Must be taken twice to fulfill graduation requirements for the Honors Program. Students may elect to take this course on an "A"/pass/no pass basis. Up to four credits of GEN205 may be substituted for non-Core Integrative General Education requirements.

Prerequisite: membership in the Honors Program or special permission from Honors Program directors.

GEN 310 - Middle East Studies Program

(16 credits) This program, based in Cairo, Egypt, allows students to explore and interact with the complex and strategic world of the modern Middle East. The interdisciplinary seminars give students the opportunity to explore the diverse religious, social, cultural and political traditions of Middle Eastern peoples. Students also study the Arabic language and work as volunteers with various organizations in Cairo.

Northwestern grants 16 credits upon completion of the program, with the credits distributed as follows: 4 credits for Arabic language instruction; 12 credits for the seminars (meeting the language and Integrative General Education Language and Culture requirement).

GEN 312 - Foundations for Media Involvement

GEN 312 - Reporting in Washington

GEN 312 - Washington, News & Public

GEN 313 - Area Studies

(4 credits; non-yearly, consult department). General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

Course designed to introduce students to the phenomenon of a particular culture(s).

Note: Topics covered will vary, depending on subject interest of faculty.

GEN 315 - Social Work in a Latin American Context

This program is located in Cuernavaca, Mexico, and offers a unique combination that may be of interest to students double-majoring in Spanish and Social Work.

GEN 316 - Cross-cultural Preparation

(1-4 credits; may be repeated; non-yearly, consult department) This course is designed specifically for students planning to engage in an approved cross-cultural experience of at least six weeks duration during the following summer. The course is an introduction to the dynamics of culture and of communication between persons of different cultures and an overview of the structures of cultures in general. Students will do research on the specific people group among which they plan to live during the summer and prepare a paper on this people group.

GEN 335 - Denver Urban Semester

The Denver Urban Semester is designed to provide a three-pronged experience of classroom instruction, living in community, and internships. The program will consist of 2-3 classes and an internship for a total of 15-16 credits. The following courses will be offered:

- Race and Ethnicity in American Society (3 credits) or Intercultural Communication (3 credits)
- Global Urbanization (City of Joy) (3 credits)
- Incarnational Spirituality (3 credits)
- Cross Cultural/Streams of Faith Practicum (1 credit)

GEN 350 - Topics in Cross-Cultural Studies

(2-6 credits; summer; may be repeated) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

Northwestern College offers a variety of off-campus opportunities with Northwestern faculty in various countries around the world. These courses offer a unique opportunity for students to make the world their classroom, going beyond the confines of the traditional classroom. Topics covered may include, but are not limited to, language, politics, religion, business, education, music, history, and literature. Students are given an opportunity to examine a particular culture through various experiences, such as home stays, ethnographic observation/research, and placement in various social institutions. Past programs have taken students to China, the Czech Republic, France, Great Britain, Ecuador, Germany, Ireland, Jamaica, Mexico, Oman, Romania, Russia, South Africa and Taiwan.

Note: Open to all students.

GEN 352 - NWC Romania Semester

GEN 354 - Oman Semester

GEN 365 - Study Abroad Italy, Florence University of the Arts

GEN 375 - Off-Campus Preparation

(1-4 credits) This course is designed for students planning to enroll in an off-campus summer course and is intended to prepare students academically for their off-campus experience. Course requirements will vary by discipline.

GEN 376 - Oman: Cross-Cultural Preparation

(1 credit) This course prepares students for their study abroad semester at Al Amana Centre in Muscat, Oman. Topics range from practical and administrative issues related to study abroad (e.g., health and safety issues) to cultural sensitivity and coping strategies in a new environment to a brief overview of Oman's geography, history, culture, and literature. Student assessment includes oral presentations and portfolio with self-reflections. The course is only offered in the fall, and to be taken the semester prior to the Oman semester in the spring.

Prerequisite: acceptance into the Oman semester program.

GER 101 - Beginning German Language and Culture

(3 credits) Along with instruction in the German language, beginning German offers students enhanced cognitive skills and insight into another culture. Classes foster communicative competence by emphasizing speaking, listening, reading and writing. Students begin to acquire the linguistic and cultural fluency necessary for basic communication in a German speaking country.

Prerequisite: No previous study of German, or placement by the foreign language placement exam.

GER 102 - Beginning German Language and Culture

(3 credits) Instruction in the German language and enhanced cognitive skills and insight into another culture. Classes foster communicative competence by emphasizing speaking, listening, reading and writing. Building on previously acquired ability in German, students acquire the linguistic and cultural fluency necessary for basic communication in a German speaking country.

Prerequisite: GER101, or placement by the foreign language placement exam.

GER 201 - Intermediate German Language and Culture

(3 credits, alternate years, consult department) (IGE option under Language and Culture) An intermediate course in German language and culture, German 201 continues the sequence begun by German 101 and 102. After a review of grammar and vocabulary, students will augment their knowledge of German by practicing the four language skills: speaking, reading, writing and listening. In addition to the textbook, students will be exposed to primary sources including news media, film and short stories. Special attention will be given to developing conversational skills and exploring differences between American and German culture.

Prerequisite: GER102, or placement by the foreign language placement exam.

GER 202 - Intermediate German Language and Culture

(3 credits, alternate years, consult department) Intermediate-level instruction in German language and culture. Study of primary sources such as short stories, newspapers, songs and movies to explore German culture and increase linguistic ability. Special emphasis on conversation, reading and idiomatic expression.

Prerequisite: GER201, or placement by the foreign language placement exam.

GER 365 - Special Topics in Language

(2-4 credits) See course description for LAN365.

GRE 101 - Elementary Biblical Greek and Culture

(4 credits, alternate years, consult department) This course will focus on learning the basics of koine Greek grammar and vocabulary as well as the cultural backgrounds of the New Testament writings. Readings and translation will focus on the Gospel and Letters of John. The New Testament writings will be examined in light of their social-historical and literary settings within Hellenistic Judaism and the broader Greco-Roman world.

Note: The Greek program is offered at Northwestern College primarily as preparation for those students who plan to continue their education through seminary training. The ancient Greek taught here prepares students for biblical study in that language.

GRE 102 - Elementary Biblical Greek and Culture

(4 credits, alternate years, consult department) (IGE option under Language and Culture) This course (a continuation of Greek 101) will focus on learning the basics of koine Greek grammar and vocabulary as well as the cultural backgrounds of the New Testament writings. Readings and translation will focus on the Gospel and Letters of John. The New Testament writings will be examined in light of their social-historical and literary settings within Hellenistic Judaism and the broader Greco-Roman world.

Note: The Greek program is offered at Northwestern College primarily as preparation for those students who plan to continue their education through seminary training. The ancient Greek taught here prepares students for biblical study in that language.

Prerequisite: GRE101.

GRE 201 - Intermediate Biblical Greek and Culture

(1 credit; alternate years, consult department) This course is designed to facilitate the acquisition and retention of Greek grammatical, exegetical, and interpretive skills through the reading of ancient Greek texts. Primary focus will be on the Gospel of Mark and its context.

Prerequisite: GRE102

GRE 202 - Intermediate Biblical Greek and Culture

(1 credit; alternate years, consult department) This course is designed to facilitate the acquisition and retention of Greek grammatical, exegetical, and interpretive skills through the reading of ancient Greek texts. Primary focus will be on the Letters of Paul and selections from other Greco-Roman authors. Students will also be introduced to the sub-discipline of Textual Criticism.

Prerequisite: GRE201

HEB 101 - Elementary Biblical Hebrew and Culture

(4 credits, alternate years, consult department) This course will focus on learning the basics of biblical Hebrew (vocabulary and grammar) and the cultural and linguistic backgrounds of the Old Testament. Readings from the different types of literature in the Hebrew Bible will be incorporated into the course work. The Old Testament writings will be studied against the historical and social backgrounds of the ancient Near East.

HEB 102 - Elementary Biblical Hebrew and Culture

(4 credits, alternate years, consult department) (IGE option under Language and Culture) This course (a continuation of Hebrew 101) will focus on learning the basics of biblical Hebrew (vocabulary and grammar), the cultural and linguistic backgrounds of the Old Testament, and the fundamentals of Hebrew exegesis. Readings from the different types of literature in the Hebrew Bible will be incorporated into the course work. The Old Testament writings will be studied against the historical and social backgrounds of the ancient Near East.

Prerequisite: HEB101.

HIS 101 - Western Civilization to 1789

(4 credits) (IGE option under Historical Perspectives) This course acquaints students with the major periods and contours of Western Civilization from its roots in the ancient Near East through its development in the 18th century Enlightenment. Among the topics treated are the medieval centuries and the eras of the Renaissance and the Reformation.

Note: Does not count toward a history major or minor.

HIS 102 - Issues in Western Civilization from 1789

(2 credits) This course provides students with thematic investigations of issues prominent in Western Civilization since the 18th century (e.g., political, intellectual, popular culture, technological, military, colonial/imperial, racial/ethnic, gender, environmental, etc.).

Note: Does not count toward a history major or minor.

HIS 120HP - Historical Perspectives

(4 credits) (Fulfills IGE Historical Perspectives requirement) **HIS120HP** offers students an introduction to the study of history. The topics of individual sections vary by instructor and semester. After completing this writing-intensive course, students will be able to describe how historical context shapes events and our understanding of events; evaluate the nature and reliability of historical evidence; develop a thesis-based argument using properly cited evidence; demonstrate familiarity with a body of historical knowledge; articulate how faith obliges Christians to pursue historical truth while acknowledging preconceptions, ideologies, and myths; and describe an approach to history based on the belief that God acted through the incarnation to redeem people made in God's image. Topics include:

Following Jesus in America: This course is a historical exploration of beliefs and practices of Americans concerning Jesus. Within an overview of major developments, important institutions, and key events, the course will focus on several individuals as case studies. Key themes in the course will include religion as a major thread in American history, Christianity as both a set of social institutions and structures and also as lived religion, and the varied appropriations of Jesus throughout America's historical experience.

The Search for a Useful Past: Students in this course will learn to ask and answer basic questions about the past creation of "useful pasts". The course's main question, "Why do people make and hand on histories?", organizes our discussion, reading and writing. We will read primary sources from medieval through modern European history where an author has recalled a past significant to (mostly) his people and revised it to answer questions facing them in their age. We will evaluate how Europeans sought a past which interpreted properly would provide them with moral guidance (understood broadly) for the crises of our own generation.

HIS 150 - Introduction to Historical Inquiry

(2 credits) (American history) An introduction to the principles and techniques involved in the study of history. This course will include both reflection and practice, consideration of ideas and actual application, through exercises drawing on primary and secondary materials.

Prerequisite: HIS120HP.

HIS 201 - History of the United States to 1865

(4 credits) (American history) This is a study of the early history of our national existence, from colonial beginnings through the Civil War. The emphasis is on those influences which have been most formative in shaping American society.

HIS 202 - History of the United States from 1865

(4 credits) (American history) This surveys developments from 1865 to the present with the focus being upon the transformation of the U.S. into a modern urban-industrial society and its emergence as a 20th century world power.

HIS 224 - History of Greece

(2 credits, alternate years, consult department) (European/world history) A survey of the major events, characters and ideas of the history of Greece from the rise of the Minoans and Mycenaeans through the Roman conquest.

Prerequisite: HIS120HP.

HIS 225 - History of Rome

(2 credits, alternate years, consult department) (European/world history) A survey of the major events, characters and ideas of the history of Rome from the origins of the city itself to the decline and fall of the Roman Empire.

Prerequisite: HIS120HP.

HIS 226 - Renaissance Europe

(2 credits, alternate years, consult department) (European/world history) A survey of the major events, characters and ideas of the European Renaissance, focusing on the political, social, economic, philosophical, literary and artistic themes of the period. Special attention will be given to Michelangelo, Da Vinci, Machiavelli, Erasmus and more.

Prerequisite: HIS120HP.

HIS 227 - Reformation Europe

(2 credits, alternate years, consult department) (European/world history) A survey of the major events, characters and ideas of the Reformation, with special attention to Luther, Zwingli, Calvin, the Anabaptists, the English Reformation and the Catholic Reformation.

Prerequisite: HIS120HP.

HIS 230 - Issues in Cross-cultural History

(4 credits; alternate years, consult department) General Education Requirement / Option: (Chinese Civilization, Islamic Civilization and Latin America-General Education options under Integrative General Education Cross-Cultural requirement)

(European/world history) Study of a selected topic in a field of history other than Europe, Canada and the United States. Each offering will have as a major goal to identify prominent contemporary features of the civilization/culture(s) under study and consider how these features have historically developed.

Note: May be taken more than once provided a different topic is studied.

Prerequisite: HIS120HP.

HIS 230 - Issues in Cross-Cultural History: China

4

HIS 230 - Issues in Cross-Cultural History: Islamic Civilization

4

HIS 230 - Issues in Cross-Cultural History: Latin America

4

HIS 240 - Issues in American History

(2 credits) (American history) A topical and selective study in American history providing the opportunity to focus on a particular era or issue important to the understanding of the American past. Topics will vary according to professor and student interest. Sample topics have included Cold War America, The Sixties, and History of American Women.

Note: May be taken more than once provided a different topic is studied.

Prerequisite: HIS120HP.

HIS 241 - Tribes, Trolleys, and Tractors: Themes in Iowa's History

(2 credits, alternate years, consult department) Through a study of the historical development of the varied peoples who have lived in Iowa, and through consideration of the impact the people of Iowa have had on each other (social and cultural environment) and on the land (natural environment), this course seeks to engage in place-based education. In light of a postmodern world in which place matters little, a historical understanding of Iowa--social, cultural and environmental--will contribute to providing connections to a place.

HIS 250 - Issues in European/World History

(2 credits, non-yearly, consult department) (European/world history) A study of selected, issue-oriented topics in both European and world history more generally. Sample topics have included: The Early Middle Ages, The Scottish Highlands and The Millennium in Historic Perspective.

Note: May be taken more than once provided a different topic is studied.

Prerequisite: HIS120HP.

HIS 317x - American Indian Societies and Cultures

(4 credits, alternate years, consult department) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

This course surveys the historical development of American Indian peoples, particularly during the period of contact and conquest by Euro-Americans and particularly in the trans-Mississippi West region of what became the U.S. Topics include pre-contact life, oral literature, Indian accommodation and selective adaptation to Euro-American societies, Spanish, French and U.S. Indian policies, Native American religion, Christian mission work among American Indians, activism by and on behalf of American Indians, and reservation life.

Cross-Referenced: Cross-referenced in sociology.

HIS 320 - Topics in European/World History

(4 credits, alternate years, consult department) (European/world history) A reading and research seminar focusing on selected topics in European history. The time period and the topic under consideration will vary.

Note: May be taken more than once provided a different topic is studied.

Prerequisites: HIS120HP or permission of instructor.

HIS 325x - American Political Thought

(4 credits, non-yearly, consult department) (American history) A survey of the historical development of American political thought with attention to significant American political thinkers from the colonial period to the present. Special emphasis will be given to the uneasy relationship between liberalism and democracy and the interaction between American political institutions and culture.

Cross-Referenced: Cross-referenced in political science.

HIS 326 - Modern Europe

(4 credits, alternate years, consult department) (European/world history) This course focuses on the history of Europe from 1848 to the present. Special attention is given to the cultural and intellectual developments of the modern era. In particular, key themes include nationalism, imperialism, the World Wars, the Holocaust, the rise and fall of Marxism, and the various challenges facing Europe today.

Note: These topics will be developed through use of lectures, period literature, discussions and films.

Prerequisites: HIS120HP or permission of instructor.

HIS 327 - Nazi Germany and the Shoah

(4 credits, alternate years, consult department) (European/world history) This course takes up German history on the eve of the Great War, and follows the effect of the war on Imperial German society. Special attention will be paid to the historiographic debates surrounding Hitler's role in the Nazi party, the reasons for the party's electoral success, the nature of Nazi government and rule, and the gradual marginalization of Jews and political opponents from the center of civil society. Roughly the last half of the course takes up the Final Solution or Shoah in the context of Germany's war in Europe. Attention is given to the Jewish experience in the ghettos and camps, the question of resistance, theology and moral issues after genocide, and the effect of the Shoah on contemporary theology, art and fiction.

Prerequisite: HIS120HP.

HIS 328 - History of Medieval Europe

(4 credits, alternate years, consult department) (European/world history) Beginning with late antiquity, this course will focus on the development of new social and political realities as imperial Rome declined in western Europe. Among the issues to be covered are the advent and domination of Christianity, the ascendancy of Constantinople and the East, and the establishment of Germanic politics in the West. The course will focus in its latter half on the civilization of the Latin West, with special attention on the Church's efforts to shape that society through reform, anathemas and support for a Christian knighthood. Concurrently, the dynamics of secular society will readily appear in such issues as economic revival, urban growth, dynastic politics and related developments. The course will conclude by following such issues and developments through the 14th century.

Prerequisite: HIS120HP.

HIS 351 - Topics in American History

(4 credits, alternate years, consult department) (American history) A topical and selective study of issues and/or people or trends in American history of special significance to our national development.

Note: May be taken more than once provided a different topic is studied.

Prerequisites: HIS120HP and HIS202, or permission of instructor.

HIS 357 - Civil War and Reconstruction

(4 credits, alternate years, consult department) (American history) This course examines the nature of the antebellum North and South, slavery in the Old South, the growth of sectional tension, the nature and course of the war, the process of reconstructing the Union, and the impact of this era on the course of American history.

Prerequisites: HIS120HP, HIS201 or HIS202 is recommended, or permission of instructor.

HIS 358 - The American West

(4 credits, alternate years, consult department) (American history) The course focuses on the historical development of that portion of the continental United States west of the Mississippi River. Themes considered will include the frontier thesis, regionalism, Indian and white relations, social and economic patterns of western development, women, ethnic and racial minorities, religion and the West as cultural myth.

Prerequisites: HIS120HP and HIS150, or permission of instructor.

HIS 398 - Directed Study

HIS 417 - Internship

(2 or 4 credits may apply toward the major)

HIS 418 - Archival Management

(4 credits, non-yearly, consult department) This course provides an introduction to the field of archives and their management. It is available only as a part of the Gerald and Jeanne De Jong Internship at the Reformed Church Archives in New Brunswick, NJ.

HIS 419 - RCA History

(4 credits, non-yearly, consult department) This course provides guided reading, research and writing in the history of the Reformed Church in America. It is available only as a part of the Gerald and Jeanne De Jong Internship at the Reformed Church Archives in New Brunswick, NJ.

HIS 435 - Philosophy of History and Historiography

(4 credits) (European/world history) A study of problems relevant to history as a scientific and humanistic discipline. Among the questions considered are the following: What sorts of meaning have philosophers of history ascribed to the overall process of history? What approaches have historians taken to questions of objectivity, causation, and moral values in the study of history? How does philosophy of history relate to the Christian faith?

Prerequisite: HIS120HP or an IGE Belief and Reason (BR) course.

HIS 499 - Honors Research

IGE 101 - First-Year Seminar: Speaking and Writing in Community

(4 credits) This course introduces students to the character and abilities considered essential to becoming a member of a Christian liberal arts community. Students develop their reading, writing and speaking skills by exploring difficult questions, learning to understand academic inquiry, forming learning communities, and integrating faith with learning and living.

IGE 101L - Writing Studio

Writing Studio provides additional writing instruction and feedback for students taking IGE101 (FYS: Speaking and Writing in Community). The studio engages students in essential practices of college writing through mini-lessons and workshop activities.

Note: Required for conditionally accepted students or students entering with an English ACT of 19 or below (SAT Verbal below 470) and no college-level writing course. Students required to take Writing Studio will need to pass the studio in order to pass IGE101.

IGE 105 - Honors First-Year Seminar: Speaking and Writing in Community

(4 credits) IGE105 is an Honors section of the First-Year Seminar, utilizing the same syllabus, texts, and course objectives as IGE101. In addition, the Honors First-Year Seminar aims: 1) to promote community among first-year students of demonstrated academic ability; 2) to create an environment in which these students can excel academically and nurture their innate intellectual curiosity; and 3) to provide students with an opportunity to learn from NWC faculty who have been recognized for their teaching excellence in the classroom. Completion of the Honors First-Year Seminar does not guarantee admission into the Honors Program. Students will have the opportunity to apply to the Honors Program at the end of their Freshman year. For additional course information, see the course description under "First-Year Seminar".

KIN 101 - Concepts of Physical Fitness

(2 credits) (IGE option under Physical Wellness) The course examines various concepts of health and physical fitness with the purpose of encouraging the student to establish positive patterns of activity and healthy living.

KIN 104 - First Aid

(1 credit) An intensive course in first aid, including lectures, demonstrations and practice in accident prevention and treatment of injuries. First aid and cardio-pulmonary resuscitation (CPR) certification will be secured upon successful completion of the course.

Note: Graded on a pass/no pass basis.

KIN 111 - Badminton

(1 credit)

KIN 112 - Bowling

(1 credit)

KIN 113 - Golf

(1 credit)

KIN 114 - Tennis

(1 credit)

KIN 115 - Personalized Physical Fitness

(1 credit) Prerequisite: KIN101

KIN 116 - Volleyball Activity

(1 credit)

KIN 117 - Basketball Activity

(1 credit)

KIN 118 - Aerobic Running

(1 credit)

KIN 119 - Ultimate Frisbee Activity

(1 credit)

KIN 120 - Soccer Activity

(1 credit)

KIN 124 - Racquetball

(1 credit)

KIN 125 - Aerobic Activity

(1 credit)

KIN 127 - Weight Training

(1 credit)

KIN 128 - Outdoor Adventure

(1 credit)

KIN 145 - Beginning Swimming

(1 credit)

KIN 146 - Intermediate Swimming

(1 credit) Prerequisite: KIN145 or permission of instructor

KIN 148 - Conditioning Swimming

(1 credit)

KIN 152 - Emergency Care

(3 credits) An intensive course in basic life support (BLS) including lectures, demonstrations, and practice in accident prevention and treatment of injuries and illnesses. BLS for the Healthcare Provider and Heartsaver First Aid certification will be secured upon successful completion of this course. This course is required for the athletic training major.

Note: There is a 15-hour athletic training observation requirement in conjunction with this class.

Prerequisites: KIN180.

When Offered: Only offered spring semester.

KIN 180 - Introduction to Kinesiology

(3 credits) Introduction to the field of kinesiology including aims, objectives, history, philosophy, programs, principles, basic concepts of organization and administration, professional organizations, and the relationship of Christian commitment to the field.

KIN 182 - Introduction to Sport Management

(2 credits) This course introduces students to the sport and fitness industry, the wide range of career opportunities involving sport, and the social and economic impact of sports on our culture. The course content includes theoretical and applied foundations of sport management. Topics include history of the profession, the need for management and organizational skills, current trends, and future issues.

KIN 202 - Organization and Administration of Physical Education

(2 credits, alternate years, consult department) A study of philosophy, objectives, curricular development, and organization and administration of programs of instruction used in physical education.

KIN 206 - Teaching of Sports

(3 credits, alternate years, consult department) Knowledge of and skill development in individual, dual and team sports with emphasis on unit plan formulation and teaching methods for various grade levels.

Note: Preceding course recommendation: KIN202.

Prerequisite: sophomore class standing.

KIN 210 - Personal and Community Health

(2 credits; alternate years, consult department) A foundational course designed for students to become informed about health as well as becoming responsible and active participants in the maintenance of their personal health and affecting the health of their community. The course is intended to provide a comprehensive coverage of health promotion, mental health, stress management, afflictions and diseases, aging, dying and death, safety and accident prevention, environmental health, consumerism and health care and promotion.

Prerequisite: KIN101.

KIN 215 - Principles of Personal Training

(3 credits) Introductory knowledge and practice in the area of personal fitness training, focusing on the principles of client consultation, goal-setting, screening and risk-stratification, education-based client training, exercise program development, facility management, and liability.

Prerequisite: KIN180.

KIN 229 - Leadership in Sport Management

(3 credits; alternate years, consult department) This course introduces students to the management and leadership opportunities and skills required in the sport and fitness industry. The applied skills of organizational planning, human resource management, problem solving, communication and motivation in a sport leadership context are the primary focus in this course.

KIN 230 - Physiological Adaptations to Exercise

(3 credits; alternate years, consult department) The study of the physiological effects of exercise on the human body.

Prerequisite: BIO102 or 115.

KIN 233 - Anatomical Kinesiology

(3 credits) The study of human movement based on anatomical and mechanical principles. Emphasis is placed on the application of these principles in the analysis of human sports performance.

Prerequisite: BIO102, 115, 121 or permission of the instructor.

KIN 234 - Prevention and Care of Athletic Injuries

(3 credits) An introduction to athletic injury prevention, recognition, evaluation, care and rehabilitation: including basic wrapping and taping techniques.

Note: Includes one lab period per week.

Prerequisite: BIO102, 115, 121 or permission of instructor.

KIN 235 - Integrating PE for Elementary Classroom Teachers

(1 credit) The methods of teaching elementary physical education and health: emphasizing effective instructional procedures and practices to facilitate health and wellness in elementary-aged students.

Note: KIN338 is an acceptable substitute for those seeking an elementary education major and unified early childhood endorsement. Does not count toward a PE major or minor.

Prerequisite: EDU326.

KIN 236 - Nutrition for Life

(2 credits; alternate years, consult department) The study of principles of nutrition and the application of these principles to a healthy lifestyle.

Prerequisite: KIN101.

KIN 237 - Substance Abuse

(2 credits; alternate years, consult department) The study of the history, composition and use of drugs, alcohol and tobacco, including their reactions relative to therapeutic values, their known and potentially injurious effects on the human body, and methods for prevention, intervention and rehabilitation of those who would use, or have used, these substances.

Prerequisite: KIN101.

KIN 240 - Topics in Kinesiology

(3 credits, non-yearly, consult department) A topical and selective study of issues and/or trends in kinesiology.

Note: May be taken more than once provided a different topic is studied.

KIN 241 - Directed Field Experience in Kinesiology I

(1 credit) Provides exposure to a variety of careers related to fitness, therapy, or sport management.

Note: Requires 25-clock hours of work experience. Graded on a pass/no pass basis.

Prerequisite: KIN180 or 182.

KIN 243 - Recognition and Evaluation of Athletic Injuries I

(3 credits) This course aims to give students the necessary information and practice to perform injury evaluations. This course will stress the importance of recognizing the mechanisms of injury, knowing the related anatomical structures, and performing the appropriate special tests to determine assessment of injury. Students will also be instructed on evaluation procedures such as HOPS and SOAP.

Prerequisite: KIN234.

KIN 244 - Recognition and Evaluation of Athletic Injuries II

(3 credits) This course aims to give students the necessary information and practice to perform injury evaluations. This course will stress the importance of recognizing the mechanisms of injury, knowing the related anatomical structures, and performing the appropriate special tests to determine assessment of injury. Students will also be instructed evaluation procedures such as HOPS and SOAP.

Prerequisite: KIN243

KIN 250 - Techniques in Resistance Training

(2 credits) Proper technique of various resistance training modes learned, focusing primarily on free weight and body weight exercises. Topics include proper spotting and safety techniques, breathing patterns, and exercise progression.

Prerequisite: KIN233.

KIN 251 - Practicum in Athletic Training I

(1 credit) Provides practical experience with skills related to the prevention and care of athletic/physically active individual's injuries. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 110-hour athletic training observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN152 and acceptance into the athletic training education program.

When Offered: Only offered fall semester.

KIN 252 - Practicum in Athletic Training II

(1 credit) Provides practical experience with skills related to recognition and evaluation of athletic/physically active individual's injuries in the upper extremity and cervical/thoracic spine regions. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 110-hour athletic training observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN152, KIN251, and acceptance into the athletic training education program.

When Offered: Only offered spring semester.

KIN 260 - Coaching Endorsement

(4 credits) This course meets the Iowa Department of Education requirements for three of the four coaching authorization areas: Child Development (15 instructional hours), Anatomy and Physiology for Coaches (15 instructional hours) and the Care and Prevention of Injuries (30 instructional hours). Emphasis will be placed on the practical application of educationally sound strategies for caring for the needs of youth involved in sport.

Prerequisite: sophomore standing or permission of instructor.

KIN 281 - Practicum in Strength and Conditioning I

(2 credits) Introductory experience to the practices and methods of Strength and Conditioning. Students will gain knowledge and experience in the philosophies of Strength and Conditioning while gaining hands-on experience in teaching, evaluating, and coaching others in the techniques of Strength and Conditioning.

Note: There is a 50-hour Strength and Conditioning observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: BIO121 and 122 or CHE101 and 102, KIN241 or KIN251, and permission of the program director.

KIN 300 - Coaching Methods

(2 credits) A study of organization skills, interpersonal relations and psychological approaches to coaching athletes and teams in contemporary society.

KIN 302 - Coaching Topics

(2 credits) This course examines the fundamental techniques and strategies in coaching specific sports. The sport to be studied will vary each semester. Practice and contest skills and strategies for coaching will be emphasized for the appropriate sport.

Note: This course may be repeated provided a different sport is studied.

Prerequisite: sophomore class standing.

KIN 317 - Methods of Elementary Physical Education and Health

(3 credits; alternate years, consult department) The methods of teaching elementary physical education and health including: program planning and implementation, emphasizing effective instructional procedures through the use of educational movement, fundamental and specialized motor skills.

Prerequisite: junior class standing.

KIN 318 - Methods of Secondary Physical Education and Health

(3 credits, alternate years, consult department) The methods of teaching physical education and health at the secondary level, emphasizing curriculum theory, instructional pedagogy, and practical applications.

Prerequisite: junior class standing.

KIN 320 - Legal and Ethical Issues in Sport

(3 credits; alternate years, consult department) This course presents legal and ethical issues in sport through a topical approach. The course will provide an overview of the American legal system and provide future sport managers with relevant examples of sport law.

KIN 325 - Physiology of Exercise

(4 credits) The study of the physiological effect of exercise on the human body. Emphasis will be given to metabolism, neuromuscular physiology, cardiopulmonary physiology, and the integration of all physiology systems.

Note: Course includes one 90-minute laboratory period per week.

Prerequisites: BIO121 and 122 or BIO221 and 222, CHE101 and 102 or CHE111 and 112, or permission of instructor.

KIN 330 - Exercise Testing and Prescription

(3 credits, alternate years, consult department) Provides knowledge and practical experience in physical fitness assessments, interpretation of assessment results, and exercise prescription. Emphasis is placed on assessments within a clinical or research setting.

Note: Three lectures and one 90-minute laboratory period per week.

Prerequisite: KIN325 or permission of instructor.

KIN 333 - Biomechanics

(3 credits; alternate years, consult department) Mechanical principles and concepts governing human movement are examined, with an emphasis on analyzing sport skills.

Note: Three lectures and one 90-minute laboratory period per week.

Prerequisite: KIN233.

KIN 338 - Adapted Physical Education

(2 credits; alternate years, consult department) Developing increased knowledge and understanding of the uniqueness of individuals with special needs, acquiring the ability to select and modify tasks and experiences for selected populations, and to adjust learning opportunities to meet varied needs.

Prerequisite: sophomore class standing.

KIN 341 - Directed Field Experience in Kinesiology II

(1 credit) Provides practical work experience in fitness, therapy, or sport management settings.

Note: Requires 25-clock hours of work experience. Graded on a pass/no pass basis.

Prerequisite: KIN241.

KIN 342 - Therapeutic Interventions

(4 credits; alternate years, consult department) Knowledge and skills to develop a comprehensive and holistic plan of rehabilitation, therapeutic modalities, and pharmacological interventions needed to improve a patient's participation and health-related quality of life.

Note: Includes one 90-minute laboratory period per week.

Prerequisites: KIN234 and 243.

KIN 345 - Outdoor Recreation

(2 credits; non-yearly, consult department) Knowledge and skill in outdoor recreation activities including backpacking, camping, climbing, hiking and orienteering. Safety rules, survival and compass/ map reading are emphasized.

Prerequisite: sophomore class standing.

KIN 349 - Organization and Administration of Athletic Training

(2 credits, alternate years, consult department) This course will build on knowledge learned in prerequisite courses. Course content will concentrate on administrative duties in athletic training, history of the NATA, and current topics in sports medicine.

Prerequisites: KIN234, 243 and advancement to level 3 or 4 of the athletic training program.

KIN 351 - Practicum in Athletic Training III

(1 credit) Provides practical experience with skills related to recognition and evaluation of athletic/physically active individual's injuries in the lower extremity and thoracic/lumbar spine regions. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 125-hour athletic observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN251, 252 and acceptance into the athletic training education program.

When Offered: Only offered fall semester.

KIN 352 - Practicum in Athletic Training IV

(1 credit) Provides practical experience in developing knowledge of other health care professionals and other important issues regarding the overall health and well-being of athletes/physically active individuals. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 125-hour athletic training observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN251, 252, 351 and acceptance into the athletic training education program.

When Offered: Only offered spring semester.

KIN 355 - Psychosocial Aspects of Sport for Health Care Professions

(2 credits, alternate years, consult department) This course will introduce those entering into a health care profession how to cope with various psychosocial aspects of injury, psychology of injury, and counseling techniques. Students will also learn various mechanisms to cope with psychosocial issues among those they are caring for as well as themselves.

Prerequisites: KIN234, 243, PSY111 or permission of instructor.

KIN 360 - Sport in Societies

(4 credits) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

A cross-cultural comparison of the interrelationship of sport and society. The primary emphasis will be to compare American sport with sport in selected cultures, while attempting to develop a Christian worldview of sport.

Prerequisite: sophomore class standing.

KIN 370 - Nutrition for Health Care Professions

(3 credits) The study of the fundamental principles of normal nutrition and the importance of nutrition in promoting growth and health. Emphasis will be given to the basic food constituents and their physiological relationships within the body. Consideration will also be given to family and community needs across the lifespan.

Prerequisites: CHE101/102 or CHE111/112, BIO121/122 or BIO221/222.

KIN 371 - Sports Nutrition

(3 credits; alternate years, consult department) An introduction to the concepts of sports nutrition and the study of applications to health, exercise and sports performance. Focus is on the analysis of functions, deficiencies, sources and utilization of nutrients.

Prerequisites: CHE101/102 or CHE111/112, BIO121/122 or BIO221/222.

KIN 381 - Practicum in Strength and Conditioning II

(2 credits) Students will add to previously gained knowledge and experience in the area of Strength and Conditioning by gaining hands-on experience, specifically in the areas of movement and analysis and exercise prescription.

Note: There is a 50-hour Strength and Conditioning observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisite: KIN281.

KIN 393 - Advanced Topics in Strength and Conditioning

(3 credits; alternate years) Proper technique of various resistance training modes learned, focusing primarily on free weight and body weight exercises. Topics include proper spotting and safety techniques, breathing patterns, and exercise progression.

Prerequisite: KIN233.

KIN 398 - Directed Study

KIN 402 - Assessment in Physical Education

(2 credits, alternate years, consult department) Introduction to measurement theory and basic statistical analysis, and practical experience in measuring physical fitness, motor skills, social development, knowledge and test construction.

KIN 403 - Motor Learning

(3 credits) Understanding of theoretical constructs of learning and knowledge of motor learning principles relating to response mechanisms, feedback, motivation, stress anxiety factors, and the influence of psycho-social elements in the acquisition of complex movements.

KIN 415 - Seminar in Sport Management

(2 credits; alternate years, consult department) This course is intended as a capstone integrative experience for the sport management majors and minor students. Topics discussed will provide a comprehensive analysis of the sport management field.

KIN 417 - Internship

(4 credits may apply toward the major)

KIN 451 - Practicum in Athletic Training V

(1 credit) Provides practical experience with skills related to modalities and the psychosocial aspects of the athlete/physically active individual. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 150-hour athletic training observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN351, 352 and acceptance into the athletic training education program.

When Offered: Only offered fall semester.

KIN 452 - Practicum in Athletic Training VI

(1 credit) Provides practical experience with skills related to rehabilitation and the organization and administration in athletic training. This course will provide competency and proficiency assessment of student's knowledge and skills gained to ensure learning over time.

Note: There is a 150-hour athletic training observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisites: KIN351, 352, 451 and acceptance into the athletic training education program.

When Offered: Only offered spring semester.

KIN 481 - Practicum in Strength and Conditioning III

(3 credits) Students will add to previously gained knowledge and experience in the area of Strength and Conditioning by gaining hands-on experience in the areas of program design and implementation. Students direct Strength and Conditioning program of a sport with supervised independence.

Note: There is an 80-hour (minimum) Strength and Conditioning observation requirement in conjunction with this class. Graded on a pass/no pass basis.

Prerequisite: KIN381.

KIN 499 - Honors Research

LAN 308 - Methods of Teaching Secondary Foreign Language

(3 credits, alternate years, consult department) Study of the methods and approaches most commonly used in secondary foreign-language teaching. Discussion of recent research and methodology in adolescent foreign-language acquisition. Observation and micro-teaching.

Note: Does not count toward the major or minor.

Prerequisites: FRE/SPA202 or equivalent proficiency.

LAN 365 - Special Topics in Language

(2-4 credits) A study of topics in Spanish language and culture not fully covered in other Spanish courses in response to student or faculty interests, or, specialized study in other modern foreign languages not offered in the Northwestern College catalog.

Note: May be taken more than once, provided a different topic is studied. (Prefix for LAN365 can also be SPA or GER.)

LAT 101 - Elementary Latin I

(4 credits, non-yearly) Latin 101, the first part of the elementary Latin sequence (continued in Latin 102) is designed to prepare students to read Latin. The course emphasizes mastery of grammar, syntax, morphology, and vocabulary.

LAT 102 - Elementary Latin II

(4 credits, non-yearly) (IGE option under Language and Culture) Latin 102 is a continuation of Latin 101. As in the case of Latin 101, this course emphasizes mastery of grammar, syntax, morphology, and vocabulary. In addition, students will begin reading short selections from Latin authors of the Late Roman Republic.

Prerequisites: LAT101.

MAT 90 - Basic Algebra

(2 credits) This course covers basic concepts of numbers (addition, subtraction, multiplication and division in the integers, rational numbers and real numbers), basic properties of exponents, linear equations in two variables and their applications in problem solving, inequalities, the use of formulas, and an introduction to the rectangular coordinate system and graphing.

Note: Counts toward full-time student status but is not included in grade point averages. Credit attempted in Basic Algebra does not count toward graduation. Does not count toward a math major or minor. Does not fulfill the math requirement or any graduation requirement.

MAT 105 - Topics in Contemporary Mathematics

(3 credits) (IGE option under Quantitative Reasoning) The purpose of this course is to explore a variety of mathematical topics arising in today's technological society. The course will also explore the development of these topics in a historical perspective. Students will develop skills necessary for the independent learning and communication of mathematical ideas. Possible topics include statistical concepts, population patterns, codes, networks, social decision-making strategies, planning and scheduling, linear programming, and logic.

Prerequisite: C- or better in MAT090, an ACT math score of 20 or above (SAT 480 or above), or a passing score on MAT090 placement exam.

MAT 107 - Mathematical Reasoning for Elementary Teachers

(3 credits) (IGE option under Quantitative Reasoning) A study of those topics necessary and helpful for competent and enthusiastic teaching of mathematics in the elementary school, including some history of mathematics, development of number systems, number bases, sets, logic & reasoning, geometry, data analysis, and probability.

Note: Course enrollment is limited to elementary education majors only and does not count toward a math major or minor.

Prerequisite: C- or better in MAT090, an ACT math score of 20 or above (SAT 480 or above), or a passing score on MAT090 placement exam.

MAT 109 - College Algebra

(3 credits) (IGE option under Quantitative Reasoning) This course covers algebraic material prerequisite to middle school mathematics teaching and to the study of calculus. Topics include a thorough study of functions (linear, polynomial, exponential, and logarithmic, as well as combinations of functions through addition/subtraction, multiplication/division, and composition), inverse functions, solving equations and systems of equations, matrices, and conic sections.

Prerequisite: C- or better in MAT090 or an ACT math score of 20 or above (SAT 480 or above).

MAT 111 - Calculus for Management, Life and Social Sciences

(3 credits) (IGE option under Quantitative Reasoning) A calculus course for non-majors that emphasizes applications and techniques that are of significance in business, biology, health and social sciences. Applications involving both differential and integral calculus are included.

Note: Does not count toward a math major or minor.

Prerequisite: C- or higher in MAT109, or an ACT math score of at least 22 (SAT 520 or above), or permission of mathematics department chair.

MAT 112 - Calculus I

(4 credits) (IGE option under Quantitative Reasoning) A study of functions, limits, derivatives and integrals with a strong emphasis on both theory and applications.

Note: Meets four times per week.

Prerequisite: C- or higher in MAT109, or an ACT math score of at least 24 (SAT 550 or above), or permission of mathematics department chair.

MAT 116 - Statistics for the Natural and Social Sciences

(3 credits) (IGE option under Quantitative Reasoning) Topics in probability and statistics with an emphasis on problems in the sciences: discrete and continuous distributions, estimation and hypothesis testing, p-values, correlation, simple linear regression.

Note: Students may receive credit for only one course among MAT116, MAT117 and MAT208.

Prerequisite: C- or better in MAT090 or an ACT math score of 20 or above (SAT 480 or above).

MAT 117 - Applied Statistics for Management

(3 credits) (IGE option under Quantitative Reasoning) Topics in probability and statistics with an emphasis on problems in business: descriptive measures, distributions, one sample estimation and hypothesis testing, correlation, simple linear regression.

Note: Students may receive credit for only one course among MAT116, MAT117 and MAT208.

Prerequisite: C- or better in MAT090 or an ACT math score of 20 or above (SAT 480 or above).

MAT 127 - Patterns, Functions and Algebra for Elementary Teachers

(3 credits) MAT127 is designed to help you understand and teach the aspects of algebra that are highly relevant to elementary and middle school classrooms. Throughout the course, topics are explored through rich problems and investigations, enabling you to deepen your conceptual understanding of algebraic concepts and to enhance your pedagogical practices. Course discussions, activities, projects, and explorations will focus on the following topics:

- Problem Solving
- Solving Equations
- Patterns & Sequences
- Representing Functional Relationships
- Quadratic Functions
- Exponential Functions
- Properties of Numbers and Operations
- Algebraic Proof

Note: This course is limited to elementary education majors only. Does not count toward a math major or minor.

Prerequisites: C- or better in MAT090 or ACT math score of 20 or above (SAT480 or above), or passing score on the MAT090 placement exam.

MAT 180 - Logic and Discrete Mathematics

(3 credits) An introduction to the language and logic of mathematical proof via topics in discrete mathematics. Topics will include logic, elementary number theory, basic set theory and methods of mathematical proof (direct proof, indirect proof, induction).

Note: Other topics will be chosen from counting, functions, relations, recursion and graph theory.

Prerequisite: C- or better in MAT112 or permission of instructor.

MAT 208 - Biostatistics

(4 credits) (IGE option under Quantitative Reasoning) This course covers the statistical concepts and methodology commonly used in the biological and health sciences. Topics include: descriptive statistics, probability, confidence intervals, hypothesis testing, correlation and regression, contingency tables and non-parametric tests.

Note: Meets four times per week. Students may receive credit for only one course among MAT116, MAT117 and MAT208.

Prerequisite: C- or better in MAT090, an ACT math score of 20 or above (SAT 480 or above), or a passing score on MAT090 placement exam.

MAT 211 - Calculus II

(4 credits) A study of transcendental functions, techniques of integration, improper integration, sequences, series, polar coordinates and conic sections.

Note: Meets four times per week.

Prerequisite: C- or better in MAT112 or permission of instructor.

MAT 212 - Calculus III

(4 credits) A study of the cylindrical and spherical coordinate systems, vectors in two dimensions and three dimensions, vector valued functions, functions of several variables, multiple integration, and vector calculus.

Note: Meets four days per week.

Prerequisite: C- or better in MAT211 or permission of instructor.

MAT 216 - Advanced Statistical Methods

(3 credits, alternate years, consult department) Further topics in probability and statistics selected from: multiple regression, ANOVA, non-linear regression, covariance, collinearity, time series and auto-correlation.

Prerequisite: C- or better in MAT116 or 117 or permission of instructor.

MAT 308 - Methods of Teaching Secondary School Mathematics

(2 credits, alternate years, consult department) Content, techniques and materials for teaching mathematics at the secondary or junior high level.

Note: Does not count toward a math major or minor.

Prerequisite: junior or senior class standing.

MAT 312 - Differential Equations

(3 credits) A study of the elementary theory, methods of solution, and applications of differential equations, which may include topics such as first order ordinary differential equations, linear equations with constant coefficients, series solutions, variation of parameters, Laplace Transforms, linear systems, partial differential equations, and Fourier Series.

Prerequisite: C- or better in MAT211 or permission of department chair.

MAT 316 - Probability and Statistics I

(3 credits, alternate years, consult department) A post-calculus course in probability and statistics, which develops the theory of discrete and continuous distributions, expected value, random variables and inferential statistics.

Prerequisites: C- or better in MAT116 or 117, 180, 211 or permission of instructor.

MAT 317 - Linear Algebra

(3 credits) A study of the algebra of matrices and vector spaces including matrix operations, systems of equations, determinants, properties of real vector spaces, eigenvalues and eigenvectors.

Prerequisite: C- or better in MAT112, 180 or permission of instructor.

MAT 325 - Topics in the History of Mathematics

(3 credits, alternate years, consult department) In this course, students will gain an appreciation for the development of mathematical thought through exploration of some of the fascinating and critical ideas in the history of mathematics. Topics include historical proofs of results students have encountered in previous mathematical study; along with some results, which will be new.

Prerequisites: MAT180 and MAT211

MAT 398 - Directed Study

MAT 411 - College Geometry

(3 credits, alternate years, consult department) A study of topics in Euclidean geometry as well as axiomatic systems, non-Euclidean geometry, and projective geometry.

Prerequisite: C- or better in MAT180 or permission of instructor.

MAT 412 - Real Analysis

(3 credits, alternate years, consult department) A study of real-value functions including such topics as continuity, sequences and series, differentiation and integration. Students will also be introduced to the concept of a general metric space.

Prerequisite: C- or better in MAT180, 211, or permission of instructor.

MAT 416 - Probability and Statistics II

(3 credits, alternate years, consult department) A continuation of Probability and Statistics I. Emphasis will be placed on functions of random variables and sampling distributions.

Prerequisite: MAT316.

MAT 417 - Internship

(2 credits may apply toward the major)

MAT 419 - Introduction to Abstract Algebra

(3 credits, alternate years, consult department) A study of groups, normal groups and factor groups, Cayley's Theorem, rings, ideals, homomorphisms, integral domains, fields, polynomial rings, field extensions and zeros of polynomials.

Prerequisite: C- or better in MAT317 or permission of instructor.

MAT 420 - Actuarial Exam Review

(1 credit) This course is a comprehensive review of all materials for SOA/CAS exams. The course is tailored to the specific exam the student is planning on taking.

Note: Graded on a pass/no pass basis. Course may be repeated.

Prerequisite: permission of chair of department.

MAT 425 - Advanced Topics in Mathematics

(3 credits, offered as needed) This course will explore in more depth some of the mathematics that has been introduced in earlier courses. Topics will vary depending on the interests of students and faculty, but include complex analysis, graph theory and combinatorics, math modeling, number theory, topology, and measure theory.

Prerequisites: MAT180, 212, and 317; or permission of instructor.

MAT 430 - Actuarial Modeling I

(3 credits, alternate years, consult department) This course is an introduction to the study of contingent payment models. Topics include: economics of insurance, individual risk models, survival distributions and life tables, benefit reserves, multiple life functions, multiple decrement models and introductory loss models.

Prerequisite: MAT416.

MAT 431 - Actuarial Modeling II

(3 credits, alternate years, consult department) This course continues Actuarial Modeling I and concentrates on loss models. Topics include: frequency and severity, aggregate loss models, discrete and continuous time ruin models, construction of empirical models, parameter estimation and model selection.

Prerequisite: MAT430.

MAT 499 - Honors Research

MUS 101 - Music Fundamentals

(2 credits) This course provides training in basic musical skills including concepts of pitch, rhythm and time signatures, scales and key signatures, intervals, triads and seventh chords and rules for part writing. It also provides an introduction to aural skills and to understanding Christian approaches to music and music-making.

Note: Includes 1 1/2 hours of lab per week. Does not count toward a music major or minor.

MUS 111 - Music Theory I

(2 credits) This course will teach the fundamentals necessary for performing, composing/arranging, teaching, directing, writing about, and recording/producing music. Related topics such as music history, performance practice and music technology are also explored and an in-depth study is made of the Christian perspective on music and music-making.

Note: Includes 1 1/2 hours of lab per week.

Prerequisite for 111: MUS101 or passing score on diagnostic placement exam.

MUS 112 - Music Theory II

(4 credits) This course will teach the fundamentals necessary for performing, composing/arranging, teaching, directing, writing about, and recording/producing music. Related topics such as music history, performance practice and music technology are also explored and an in-depth study is made of the Christian perspective on music and music-making.

Note: Includes 1 1/2 hours of lab per week.

Prerequisite for 112: MUS111 or passing score on diagnostic placement exam.

MUS 113 - Exploring Music

(3 credits) (IGE option under Aesthetic Experience) The student will survey the role of both music and musician in relation to the intellectual, religious and social conditions of the Renaissance, Baroque, Classical, Romantic and Contemporary periods. Through listening and by examination of the elements and forms of music, the student will study the nature of the creative process in the context of a Christian perspective.

MUS 115 - Music of the Church

(3 credits) (IGE option under Aesthetic Experience) This course will survey Judeo-Christian music of the Church, from its biblical roots to the present day. Students will be introduced to the development of hymnody, liturgy, music and worship movements and will compare historical models with current worship situations. Recommended for all students entering church-related work, including pre-seminary and Christian education.

MUS 116 - Jazz Exploration and Understanding

(3 credits, non-yearly, consult department) (IGE option under Aesthetic Experience) This course will explore the development, history and music of jazz from its roots to today. Students will learn how culture has affected its development and how it has impacted and changed culture. Students will look closely at the music and those who have been leaders in its development. This multimedia course will focus on an aural and a historical understanding of the nature of the creative process in jazz within the context of a Christian perspective.

MUS 130 - Piano Class Beginners I

(1 credit) This class is designed for students with limited experience in piano. Beginning class is for the student with no piano background or very little prior instruction. Intermediate class is for the student who reads melodic lines and has some previous keyboard experience. Advanced class is for the student who has had a few years of keyboard instruction and wishes to broaden repertoire. Placement in appropriate level is by permission of instructor.

Note: Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 131 - Piano Class Beginners II

(1 credit) This class is designed for students with limited experience in piano. Beginning class is for the student with no piano background or very little prior instruction. Intermediate class is for the student who reads melodic lines and has some previous keyboard experience. Advanced class is for the student who has had a few years of keyboard instruction and wishes to broaden repertoire. Placement in appropriate level is by permission of instructor.

Note: Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 132 - Piano Class Intermediate I

(1 credit) This class is designed for students with limited experience in piano. Beginning class is for the student with no piano background or very little prior instruction. Intermediate class is for the student who reads melodic lines and has some previous keyboard experience. Advanced class is for the student who has had a few years of keyboard instruction and wishes to broaden repertoire. Placement in appropriate level is by permission of instructor.

Note: Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 133 - Piano Class Intermediate II

(1 credit) This class is designed for students with limited experience in piano. Beginning class is for the student with no piano background or very little prior instruction. Intermediate class is for the student who reads melodic lines and has some previous keyboard experience. Advanced class is for the student who has had a few years of keyboard instruction and wishes to broaden repertoire. Placement in appropriate level is by permission of instructor.

Note: May be repeated. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 164 - Heritage Singers

(1/4 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 168 - Percussion Ensemble

(1/4 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 170 - A Cappella Choir

(1/2 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 175 - Women's Choir

(1/4 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 176 - Chamber Orchestra

(1/4 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 177 - Jazz Band

(1/4 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 179 - Percussion Class

(1 credit, non-yearly, consult department) This class is designed for non-majors and for majors who desire class instruction in areas of secondary emphasis. The classes deal with ensemble literature, technical development and sight-reading.

Note: This class may be repeated. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 180 - Symphonic Band

(1/2 credit) Membership in each ensemble is by auditions held in the fall during the first week of classes.

Note: Ensembles may be repeated. Chamber Ensembles may be taken in lieu of private instruction for one semester in either the junior or senior year to meet scholarship requirements.

MUS 181 - Voice Class

(1 credit) This class is designed for the beginning singer and addresses the processes and mechanics of singing such as posture, breathing, tone production and diction. A rudimentary knowledge of note reading is expected.

Note: This class may be repeated and must be taken prior to private voice instruction. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 189 - Brass Class

(1 credit, non-yearly, consult department) This class is designed for non-majors and for majors who desire class instruction in areas of secondary emphasis. The classes deal with ensemble literature, technical development and sight-reading.

Note: This class may be repeated. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 191 - Guitar Class

(1 credit, alternate years, consult department) This course is designed for students pursuing music education, elementary education, or church music, as well as beginning guitar students. Students learn how to play the guitar as an accompaniment to singing. Special emphasis is placed on the effective use of the guitar in the elementary classroom and in the church.

Note: No previous musical background is required. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 199 - Woodwind Class

(1 credit, non-yearly, consult department) This class is designed for non-majors and for majors who desire class instruction in areas of secondary emphasis. The classes deal with ensemble literature, technical development and sight-reading.

Note: This class may be repeated. Class instruction is offered in piano, voice, guitar, percussion, brass and woodwind performance.

MUS 211 - Music Theory III

(4 credits) This course will teach the fundamentals necessary for performing, composing/arranging, teaching, directing, writing about, and recording/producing music. Related topics such as music history, performance practice and music technology are also explored and an in- depth study is made of the Christian perspective on music and music-making.

Note: Includes 1 1/2 hours of lab per week.

MUS 212 - Music Theory IV

(4 credits, alternate years, consult department) This course will teach the fundamentals necessary for performing, composing/arranging, teaching, directing, writing about, and recording/producing music. Related topics such as music history, performance practice and music technology are also explored and an in- depth study is made of the Christian perspective on music and music-making.

Note: Includes 1 1/2 hours of lab per week.

MUS 214 - Piano Pedagogy

(2 credits, alternate years, consult department) This course is designed to prepare students for studio teaching by introducing the fundamental principles of private teaching, knowledge of methods, and materials suitable for pre-school and elementary school level students as well as to provide a broad understanding and perspective on piano teaching through teaching beginning students and observing professional teaching.

MUS 215 - Survey of Instrumental Literature

(1 credit, alternate years, consult department) This course is designed to provide the student with an overview of the core and standard repertoire for bands and orchestras from a variety of levels. Emphasis will be music suitable for educational settings. In addition, literature for collegiate ensembles will be presented. This course is designed to provide the student with the resources necessary to program band or orchestra literature in a school setting.

Prerequisite: MUS112.

MUS 216 - Survey of Piano Literature

(1 credit, alternate years, consult department) This course is a survey of selected composers and keyboard compositions since 1750. Elements of musical style, keyboard writing, favored genres, and performance practice will be included in the discussions. Reading and listening assignments will supplement the in-class lectures.

Prerequisite: MUS251.

MUS 217 - Vocal Pedagogy

(2 credits, alternate years, consult department) This course deals with the vocal processes, including the anatomy and physiology of the vocal tract. Included in this course is a survey of pedagogical approaches and vocal literature appropriate for the beginning student.

Prerequisite: MUS261 or permission of instructor.

MUS 218 - Vocal Diction

(2 credits, alternate years, consult department) This course is designed to acquaint the student with the singer's pronunciation of English, French, German, Italian and Latin, using the standard International Phonetic Alphabet.

Prerequisite: applied voice or permission of instructor.

MUS 219 - Survey of Choral Literature

(1 credit, alternate years, consult department) This course is designed to provide the student with an overview of the core and standard repertoire for choral ensembles from a variety of levels. Primary emphasis will be music for educational settings. In addition, literature for advanced and collegiate ensembles will be presented. This course is designed to provide the student with the resources necessary to program choral literature in a school setting.

Prerequisite: MUS112 or permission of instructor.

MUS 220 - Survey of Vocal Literature

(1 credit, alternative years, consult department) A survey of solo vocal literature from 1585 to the present. This course provides students with repertoire lists suitable for teaching studio and for high school solo vocal contests.

Prerequisite: MUS261.

MUS 222 - Survey of Organ Literature

(1 credit, alternate years, consult department) This course is a survey of organ literature suitable for use in churches and future teaching purposes. Students interested in organ pedagogy are advised to take MUS214.

MUS 223 - Organ for Music Ministry

(1 credit, alternate years, consult department) This course will introduce students to an instrument that is owned and used by the majority of American churches. Students will learn about the history and theology behind the use of the organ, the construction and workings of organs, and techniques for using the organ to accompany hymns, choirs, or even contemporary Christian music. In addition, students will learn basic skills in accompanying, performing, and improvising on the organ.

Prerequisite: MUS 133 or MUS 251 or permission of instructor.

MUS 224 - Methods of Teaching Brass Instruments

(1 credit) This course is required for students who have selected a career concentration in instrumental music education. Students will acquire a basic playing facility for at least two instruments in each generic category. The course will familiarize students with concepts and procedures that will enable them to teach wind, percussion, and string instruments to students at the elementary and secondary levels.

When Offered: (alternate years, consult department)

MUS 225 - Methods of Teaching Woodwind Instruments

(1 credit) This course is required for students who have selected a career concentration in instrumental music education. Students will acquire a basic playing facility for at least two instruments in each generic category. The course will familiarize students with concepts and procedures that will enable them to teach wind, percussion, and string instruments to students at the elementary and secondary levels.

When Offered: (alternate years, consult department)

MUS 226 - Methods of Teaching Percussion Instruments

(1 credit) This course is required for students who have selected a career concentration in instrumental music education. Students will acquire a basic playing facility for at least two instruments in each generic category. The course will familiarize students with concepts and procedures that will enable them to teach wind, percussion, and string instruments to students at the elementary and secondary levels.

When Offered: (alternate years, consult department)

MUS 227 - Methods of Teaching String Instruments

(1 credit) This course is required for students who have selected a career concentration in instrumental music education. Students will acquire a basic playing facility for at least two instruments in each generic category. The course will familiarize students with concepts and procedures that will enable them to teach wind, percussion, and string instruments to students at the elementary and secondary levels.

When Offered: (alternate years, consult department)

MUS 228 - Brass

(1/2 credit)

MUS 228 - Strings

(1/2 credit)

MUS 228 - Woodwind

(1/2 credit)

MUS 230 - Hymnology/Liturgy

(2 credits, alternate years, consult department) A study of the development and use of music for worship, with emphasis on hymns. The course will outline the historical threads of hymnody and liturgy. Prominent hymn writers and derivations of tunes will be studied.

Prerequisite: MUS111.

MUS 231 - Church Music Administration

(1 credit, alternate years, consult department) An examination of several areas of organizational structure for a church setting. Students will gain knowledge in order to work effectively in a Christian community, while exercising a servant model of leadership.

Prerequisite: MUS115.

MUS 232 - Music Technology

(2 credits, alternate years, consult department) This course is designed to give students a basic understanding of some of the most common technologies in music, both digital and analog. The course is theoretical as well as practical. Hands-on experience and training will comprise a significant element in the class. Midi, digital technology, computers and analog sound amplification comprise broad subjects covered. Students will gain understanding and experience in each of these areas.

Prerequisite: MUS111 or permission of instructor.

MUS 233 - Leading Music for Worship in a Changing Culture

(2 credits, alternate years, consult department) This class will explore the biblical basis for contemporary church music. Through a variety of readings, students will also develop their own philosophy of contemporary music in worship. They will learn to evaluate issues of quality, both in the selection of contemporary songs and in the presentation of them in a service. Students will also learn the role of each instrument in a contemporary ensemble and how to plan and present a contemporary worship service.

Prerequisite: MUS111 or permission of instructor.

MUS 235 - Integrating Music for Elementary Classroom Teachers

(1 credit) This course is designed to equip elementary majors with methods and materials for incorporating music in their educational curriculum.

Note: KIN338 is an acceptable substitute for those seeking an elementary education major and unified early childhood endorsement. Does not count toward a music major or minor.

Prerequisite: EDU326.

MUS 243 - String Bass

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 245 - Classical Guitar

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 246 - Music Ministry Guitar

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 247 - Harp

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 250 - Aural Skills Lessons

(1 credit)

MUS 251 - Piano Lessons

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 252 - Lead Sheet Piano

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: MUS133 or MUS251

MUS 253 - Organ

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 255 - Piano Ensemble

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 257 - Oboe

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 261 - Voice

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 265 - Percussion

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 267 - Tuba

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 271 - Violin

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 273 - Cello

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 277 - Viola

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 281 - Trumpet

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 283 - Trombone

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 285 - French Horn

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 287 - Baritone Horn

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 291 - Clarinet

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 293 - Saxophone

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 295 - Flute

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 297 - Bassoon

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: permission of instructor.

MUS 301 - Basic Conducting

(2 credits, alternate years, consult department) This course is designed to assist students in developing a basic conducting technique. Skills are taught which enable the student to direct vocal and instrumental groups. Included in the course are studies in transposition, clef reading and score preparation.

Prerequisite: MUS112.

MUS 302 - Advanced Conducting

(3 credits, alternate years, consult department) This course is designed to further develop the student's basic conducting skills. The student will learn how to interpret stylistically the intentions of a composer and how to rehearse effectively. Compositions for band, choir and orchestra are studied. Included in the course are studies in score preparation, clef reading, transposition, rehearsal techniques, and error detection.

Prerequisite: MUS301.

MUS 303 - Orchestration

(2 credits, alternate years, consult department) This course provides the students with the principles of scoring for small string and wind ensembles, symphonic orchestra and symphonic band. The study of range, proper notation, transposition and the characteristics of orchestra and band instruments are included.

Prerequisite: MUS112.

MUS 307 - Teaching Elementary Vocal Music

(2 credits, alternate years, consult department) This course is designed to prepare students who are music majors or minors for teaching in the elementary school. Students, who anticipate becoming specialists, will learn how to teach music to children through traditional methods, as well as through innovations of leading European and American educators. Students will learn how to establish curriculum's for music education that utilize learning strategies encompassed by the conceptual approach. State INTASC Standards, as well as National Music Standards, will be reviewed and applied. Four areas of musical study will be emphasized: historical, philosophical, content and methodology. Students will do guided practice in class teaching assignments.

Prerequisite: MUS112.

MUS 308 - Teaching Secondary Vocal Music

(2 credits, alternate years, consult department) This course deals with the areas of curriculum, materials and methodology for teaching music in both non-performance and performance situations.

Prerequisite: MUS112.

MUS 309 - Teaching Instrumental Music

(2 credits, alternate years, consult department) This course deals with techniques, literature and materials used for teaching instrumental music at the elementary and secondary levels. A primary emphasis of the course is the study of educational philosophy. Score reading and analysis of wind, percussion and string music, discussion of rehearsal procedures, and the study and observation of marching band techniques are also covered in the course.

MUS 312 - Counterpoint

(2 credits, alternate years, consult department) The study of species counterpoint and 18th century fugues.

Note: This course is strongly recommended for all students anticipating graduate school.

Prerequisite: MUS211.

MUS 317 - History of Music I

(3 credits, alternate years, consult department) Music history courses present a summary of the chronological development of music in western civilization. Music from ancient times through the Baroque is covered.

Prerequisite: MUS112 or permission of instructor.

MUS 318 - History of Music II

(3 credits, alternate years, consult department) (IGE option under Aesthetic Experience) Music history courses present a summary of the chronological development of music in western civilization. Music from the Classical era to the middle of the 19th century is covered.

Prerequisite: MUS112 or permission of instructor.

MUS 319 - History of Music III

(3 credits, alternate years, consult department) Music history courses present a summary of the chronological development of music in western civilization. Music from the late 19th century through the present is covered.

Prerequisite: MUS112 or permission of instructor.

MUS 320 - World Musics

(2 credits, alternate years, consult department) World Musics provides an overview of world music traditions and serves as an introduction to the field of ethnomusicology, giving special attention to the use of ethnomusicology in missions and the use of world musics in worship.

MUS 325 - Recital

(1 credit) This course is to be taken along with one credit of applied instruction during the semester in which the degree recital is given. The student will be required to select music of representative styles and periods, research and write program notes, pass the pre-recital jury one month prior to the recital, and give the public performance.

Note: Minimum recital length is 30 minutes for music education majors and 60 minutes for music performance majors. Course may be repeated.

Prerequisite: junior class standing or after four semesters of applied study.

MUS 334 - Composition

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: MUS112 or permission of instructor

MUS 335 - Private Conducting

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: MUS302

MUS 337 - Choral/Instrumental Arranging

(1-2 credits) Private instruction is offered in keyboard, voice, brass, woodwind, percussion and string performance.

Note: Lessons are 30 minutes in length. Lessons are offered every semester and may be repeated. MUS252, Lead Sheet Piano does not count toward class or private instruction in piano requirement for majors or minors. An advanced student may elect to take an hour lesson each week in his/her major area of performance. Practice and repertoire requirements are doubled.

Prerequisite: MUS112 or permission of instructor

MUS 398 - Directed Study

MUS 401 - Music Ministry Practicum

(2 credits) At the conclusion of the music ministry major course work, the student will be placed in a local church to gain hands on experience in the field. Through the practicum the student will further refine areas of strength, be introduced to a broad array of worship ministries and develop skills in organization and planning. The ministry activities and church situation will vary depending on the student's strengths, performance background and career focus.

Prerequisites: all course requirements for the music ministry major.

MUS 412 - Special Topics in Music

(2 credits, non- yearly, consult department) This course provides in-depth study of special topics in music. Students will look at philosophical and practical issues in music within society and various cultures. Students will explore questions in theoretical, theological, historical, and performance approaches to music.

Prerequisite: MUS318 or permission of instructor.

MUS 417 - Internship

(4 credits may apply toward the Arts Administration minor) Prerequisite: MUS212.

MUS 420 - Chamber Opera

(1/2 credit, non- yearly, consult department) The study of a selected chamber opera (operas) scene(s) from all periods. The course will involve rehearsal and performance. Students will present their product in the context of recitals or performances.

Prerequisite: permission of instructor.

MUS 499 - Honors Research

NSC 101 - Introduction to Earth Science

(4 credits, alternate years, consult department) An introduction to an understanding of Earth's geological, hydrological, atmospheric, and environmental systems, the impact of human activity on such systems, and the ethical basis and strategies for human response to environmental degradation. Course includes required field trips and 90 minutes of lab per week.

Note: This course is restricted to students pursuing a Middle School endorsement. Students may NOT receive credit for both BIO101 and NSC101.

NSC 308 - Methods of Teaching Secondary Natural Science

(2 credits, alternate years, consult department) A study of the techniques and materials for teaching natural science at the secondary school level (for biology and chemistry majors).

Note: Credit does not count toward the major or minor. Note: See also course offerings under biology, chemistry and physics.

Prerequisite: upperclassman.

NUR 160 - Nursing: Discerning Your Vocation

(1 credit) Based on a Christian worldview, this course considers dimensions of nursing specifically related to nursing as a healing ministry, human science, and performing art. This exploration includes a historic, current and future perspective. Students reflect on their call to nursing and develop a success plan for completing their major. Current societal, health-related and professional issues are also explored. Learning experiences include lecture and directed discussion, journaling, interviews, one clinical observation with a practicing nurse, guest lectures, multimedia learning technology and library research.

NUR 220 - Nursing and Shalom

(2 credits) Based on a Christian worldview, this course investigates the theoretical, scientific and ethical foundation of nursing as a human science, performing art and healing ministry specifically as an approach to promote shalom (health, peace and wholeness from a Biblical perspective) and social justice. The program's mission, philosophy, conceptual framework and program outcomes are examined. Service-learning experiences, faith reflection and the creation of an electronic portfolio are integrated in meeting course objectives.

Prerequisite: Admission to the BSN program. Concurrent requisite: NUR280.

NUR 260 - Fundamentals of Nursing

(3 credits, 2:1) Based on a Christian worldview and the framework of nursing as a healing ministry, human science and performing art, this course provides the foundation for application of the nursing process with diverse pediatric and adult clients in acute and chronic illness. On-campus laboratory precedes clinical experiences and as a means to promote shalom. These experiences provide opportunity to develop knowledge and beginning nursing aptitudes in intervening with the care of individual clients across the lifespan.

Prerequisites: NUR220, NUR280, BIO203, PHI214, and REL150. Concurrent requisite: NUR290.

NUR 280 - Lifespan Health Assessment

(3 credits, 2:1) Based on a Christian worldview, this course provides an opportunity for students to develop their understanding and use of the nursing process, with a focus on the relationship development and assessment phases. Informed by a Christian world view, emphasis is placed on performing holistic assessment of pediatric and adult clients including the physiological, psychological, sociocultural, spiritual and moral/ethical dimensions. Laboratory practice precedes clinical application in a variety of health care and community settings. In the clinical component, students develop aptitudes in relationship development and holistic assessment of pediatric and adult individual clients to develop clinical judgment and promote shalom.

Prerequisite: Admission to the BSN program. Concurrent requisite: NUR220.

NUR 290 - Promoting Shalom with Older Adults

(3 credits, 2:1) Based on a Christian worldview, this course explores multidimensional aging processes and the holistic health experience of older individuals from the perspective of a Christian worldview. Emphasis is placed on nursing as a healing ministry, human science and performing art to promote shalom with older adults. Application of the nursing process in health promotion and care of common geriatric care concerns is accentuated. Service-learning experiences, faith reflection, and literature and the arts are integrated as strategies to more fully understand (a) the experience of older adults with diverse backgrounds, and (b) personal values, attitudes, practices and ethics, as well as those evident in government policies, community planning and the health care and social service delivery system. The clinical component provides an opportunity for nursing practice in community-based and acute care settings with older adults, assisting students to integrate knowledge, aptitudes and compassionate care in health promotion, restoration and maintenance, and living the three nursing practice dimensions (illuminating meaning, synchronizing rhythms and participating in transcendence).

Prerequisites: NUR220, NUR280, and BIO203. Concurrent requisite: NUR260.

NUR 310 - Shalom and Professional Nursing Practice

(4 credits) Designed as a bridge course to orient the BSN-Completion option student to baccalaureate-level study, this course based in a Christian worldview investigates the theological, scientific, and ethical foundation of nursing as a human science, performing art and healing ministry, specifically as an approach to promote shalom (health, peace and wholeness from a Biblical perspective) and social justice. The program's mission, philosophy, conceptual framework and program outcomes are examined, and nursing as a human science and nursing theories are evaluated in the context of the theory-practice relationship. Specific concepts relevant to professional nursing practice are considered and applied in analysis of both practice and education issues. Service-learning experiences, faith reflection and the creation of an electronic portfolio are integrated in meeting course outcomes.

NUR 320 - Promoting Shalom with Ill Clients

(6 credits, 4:2) Based on a Christian worldview, this course examines the theoretical, scientific and ethical basis for the application of the nursing process with diverse clients in their experience of health and illness across the lifespan. Emphasis is placed on nursing as a human science, performing art and healing ministry to promote shalom with children and adults. The clinical component provides an opportunity for nursing practice in acute care and selected community-based settings, assisting students to integrate knowledge, aptitudes and Christ-like compassion in all levels of prevention, with a focus on health restoration and in living the three practice dimensions.

Prerequisites: NUR220, 260, 280, 290, BIO320 and PSY225. Concurrent requisite: BIO360.

NUR 350 - Promoting Shalom with Cross-cultural Populations

(1 credit) Based on a Christian worldview, this 1- credit seminar examines transcultural nursing theory from a theoretical, scientific and ethical perspective, along with logistics for the in-country experience, dimensions of global health care and social justice. Emphasis is placed on cultural values, beliefs, norms and practices and their influence on the lived experience of health and illness. Within a context that honors nursing as a human science, performing art and healing ministry to promote shalom with diverse clients in acute care and/or community-based settings, the in-country experience provides students opportunities to explore and engage another culture and participate in the nursing and health care delivery system. Learning experiences include service-learning, experiential learning and faith reflection.

Note: Course is completed prior to enrollment in GEN350.

Prerequisites: NUR220 and PHI214

NUR 360 - Promoting Shalom with the Childbearing Family

(3 credits, 2:1) Based on a Christian worldview, this course examines the theoretical, scientific and ethical basis for the application of the nursing process with diverse normal and high-risk childbearing families. Emphasis is placed on nursing as a human science, performing art and healing ministry to promote shalom with parents and children. The clinical component provides an opportunity for nursing practice in acute care and selected community-based settings, assisting students to integrate knowledge, aptitudes and compassionate care in health promotion and restoration activities and in living the three nursing practice dimensions. Learning experiences include service-learning, faith reflection, laboratory practicum and clinical experiences.

Prerequisite: NUR320. Concurrent requisites: NUR380.

NUR 380 - Promoting Shalom and Mental Health

(3 credits, 2:1) Based on a Christian worldview, this course examines the theoretical, scientific and ethical basis for the application of the nursing process in promoting shalom with diverse individuals across the lifespan who are experiencing mental illness. Emphasis is placed on nursing as a healing ministry, human science and performing art to promote shalom with pediatric and adult mental health clients in acute and community-based settings. The person is considered from a holistic perspective and application of the nursing process utilizing all levels of prevention is emphasized, with a focus on the therapeutic use of self, health restoration and maintenance. The clinical component provides an opportunity for mental health nursing practice in institutional and selected community-based settings, assisting students to integrate knowledge, aptitudes and compassionate care in living the three nursing practice dimensions.

Prerequisites: NUR320 and PSY360. Concurrent requisites: NUR360.

NUR 420 - Nursing Science and Informatics

(3 credits, 2:1) Based on a Christian worldview, this course examines the epistemological (theoretical, scientific and ethical) foundation of nursing as a human science, specifically as an approach to promote shalom and social justice. It surveys the types, methods and uses of research and informatics to enhance client outcomes and to deliver holistic nursing care for all clients and at all levels of prevention. The course emphasizes the knowledge and aptitudes needed by professional nurses to manage and utilize health care information and related technologies, critically evaluate research studies and integrate evidence in all phases of the nursing process. In the practicum, students analyze a variety of health care technologies and present an evidence-based practice project.

Prerequisites: Nursing major with senior class standing, ENG288, KIN370, MAT208 and SOC101. Concurrent requisite: NUR440.

NUR 430 - Promoting Shalom with Children and Adolescents

(2 credits) Based on a Christian worldview, this course examines the theoretical, scientific and ethical basis for the application of the nursing process with diverse normal and higher-risk children and their families. Emphasis is placed on nursing as a human science, performing art and healing ministry to promote shalom with children and their families. The content builds upon the child and adolescent content in NUR280 *Lifespan Health Assessment*, NUR360 *Promoting Shalom with Childbearing Families* and NUR380 *Promoting Shalom and Mental Health*. Learning experiences include service-learning, case studies and faith reflection. Related clinical experiences are integrated throughout the nursing course sequence and provide an opportunity for nursing practice in acute care and selected community-based settings, assisting students to integrate knowledge, aptitudes and compassionate care in health promotion and restoration activities and in living the three nursing practice dimensions.

Prerequisites: NUR350, 360 and 380. Concurrent requisites: NUR420 and 440.

NUR 440 - Promoting Shalom With Diverse Populations

(5 credits, 3:2) Based on a Christian worldview, this course examines the theoretical and scientific basis for the application of the nursing process with diverse families and groups in the community. All levels of prevention are considered, focusing on health promotion and maintenance. Grounded in a synthesis of public health and nursing science and arts, the course emphasizes nursing as a healing ministry, human science and performing art to promote shalom and enhance the health of the population as a whole. The clinical component provides an opportunity for nursing practice in the community, assisting students to integrate knowledge, aptitudes and compassionate care in living the three nursing practice dimensions with families and groups. Learning experiences include service-learning, faith reflection and clinical experiences.

Prerequisites: Nursing major with senior class standing, ENG288, KIN370, NUR350 and SOC101. Concurrent requisite: NUR420.

NUR 460 - Nursing Leadership and Clinical Scholarship

(4 credits, 3:1) Based on a Christian worldview, this course explores the leadership, management, role development and clinical scholarship dimensions of professional nursing practice, with a distinctive emphasis on promoting shalom, servant leadership, social justice and sociopolitical change. Students will analyze the health care system at a microsystem, macrosystem and chronosystem level, focusing on national health care but also exploring global health issues. Foundational to this exploration is an analysis of the relationship of personal, professional and organizational values and ethics to health care leadership roles and activities. Clinical scholarship is emphasized as a moral duty of Christian nurses committed to continuing Jesus' healing ministry. The practicum component provides an opportunity for students to observe (a) the role played by a nurse servant leader and (b) engage in a leadership project as a basis for clinical scholarship. Learning experiences include service-learning, faith reflection and practicum experiences.

Prerequisites: NUR420 and NUR440. Concurrent prerequisites: NUR480 and NUR490.

NUR 480 - Promoting Shalom With Critically Ill Clients

(5 credits, 2:3) Based on a Christian worldview, this course expands the theoretical, scientific and ethical basis for the application of the nursing process with diverse clients who experience complex health problems across the lifespan. Emphasis is placed on nursing as a healing ministry, human science and performing art to promote shalom with children and adults in acute care and community-based settings experiencing life-altering illness. The clinical component, which includes a 120-hour preceptorship, provides opportunity for (a) beginning-level professional nursing practice in acute care and selected community-based settings, (b) the integration of knowledge from nursing and related disciplines in clinical decision-making, (c) enhancing aptitudes in all levels of prevention, but with a focus on health restoration, and (d) practicing compassionate care in living the three practice dimensions.

Prerequisites: NUR420 and NUR440. Concurrent requisites: NUR460 and NUR490.

NUR 490 - Living Shalom

(1 credit) Based on a Christian worldview, this course explores finding one's place in God's kingdom for now and eternity, living vocation, integrating values and ethics in personal and professional realms and living shalom. Within this capstone seminar, students assess their knowledge and aptitudes related to the program outcomes and integrate them in their philosophy of Christian nursing. Supported by a vocation-based philosophy, the course also prepares graduating seniors to live their vocation, write the NCLEX-RN examination, secure their first professional nursing position and practice in their first nursing position.

Prerequisites: NUR420 and NUR440. Concurrent requisites: NUR460 and NUR480.

PHI 200 - Introduction to Ethics

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An investigation of some of the main philosophical questions about ethics, such as the following: Does morality depend on religion? Is morality relative to culture? Why should I be moral? How do we go about answering moral questions? Is there a "theory" of morality? If so, what does that theory look like?

PHI 202 - Logic

(4 credits, alternate years, consult department) (IGE option under Quantitative Reasoning) An introduction to formal logic. The aim is to enable the student to become skilled in the examination of everyday language for validity, soundness, and cogency, to acquire a basic knowledge of classical sentential and categorical logic, and to master proof techniques in propositional logic and the first-order predicate calculus.

Prerequisite: C- or better in MAT090, an ACT math score of 20 or above (SAT 480 or above), or a passing score on the MAT090 placement exam.

PHI 204 - Mind, Knowledge and Reality

(4 credits) (IGE option under Belief and Reason) An introduction to the main metaphysical and epistemological questions of philosophy. Issues addressed include the existence of God, the problem of evil, the mind-body problem, knowledge and skepticism, and personal identity and resurrection.

PHI 208 - Reason and Christian Faith

(4 credits; alternate years, consult department) (IGE option under Belief and Reason) An introduction to some of the main philosophical problems faced by Christians. Possible topics include apologetics, arguments for and against the existence of God, the attributes of God, the problem of evil, and the relationship between faith and reason.

PHI 210x - Introduction to Political Philosophy

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) This course introduces the student to philosophy by means of an examination of the main questions of normative social and political theory. It examines such matters as the justification and purpose of government, anarchism, justice, equality and human rights.

Cross-Referenced: Cross-referenced in political science.

PHI 214 - Contemporary Moral Issues

(4 credits) (IGE option under Belief and Reason) A philosophical exploration of contemporary moral issues. Possible topics include abortion, euthanasia and physician-assisted suicide, cloning and stem-cell research, war and terrorism, capital punishment, famine relief, factory farming and experimenting on animals, and so on.

PHI 216 - Philosophy Through Film and Fiction

(4 credits; alternate years, consult department) (IGE option under Belief and Reason) An introduction to some of the main problems of philosophy by a study of selected works of literature and films. Topics explored include appearance and reality, knowledge and skepticism, the mind-body problem, and what sort of life is worth living.

PHI 219 - Philosophy and Science Fiction

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An introduction to some central philosophical problems through the medium of science fiction.

PHI 221 - Philosophy of Law

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) This course is an introduction to philosophy by way of jurisprudence, the philosophy of law. The course addresses such questions as the nature and limits of law, judicial review, the obligation to obey unjust laws, the relation of law and morality, and the objectivity of legal reasoning. Readings will include opinions from the U.S. Supreme Court and other Federal Courts.

PHI 225 - Ancient Greek Philosophy

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An introduction to the ancient Greek philosophical tradition, ranging from the Presocratics to the Hellenists but focusing on Plato and Aristotle.

PHI 226 - Medieval Philosophy

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An introduction to medieval philosophy, beginning with Neoplatonists and Patristics and focusing on figures such as Augustine, Boethius, Anselm and Aquinas.

PHI 227 - Modern Philosophy

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An introduction to the central figures in the philosophical milieu of the 17th, 18th, and 19th centuries, focusing on thinkers such as Descartes, Spinoza, Leibniz, Locke, Berkeley, Hume, Kant, Mill, Kierkegaard and Nietzsche.

PHI 229 - Twentieth-Century Philosophy

(4 credits; non-yearly, consult department) (IGE option under Belief and Reason) An introduction to some of the dominant philosophers and philosophical movements of the 20th century.

PHI 238 - Philosophy of the Arts

(4 credits) (IGE option under Belief and Reason) A study of major theories of the analysis and evaluation of art.

PHI 240 - Minds and Machines

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) This course introduces some of the main problems of philosophy by exploring questions that arise from computer technology. Topics examined include what it is to be a person, humans as the Image of God, the human mind as a computer, artificial intelligence, virtual reality and transhumanism.

PHI 244 - C.S. Lewis and the Inklings

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) An exploration of the philosophical themes found in the writings of the Christian writing group "the Inklings," focusing heavily on the fiction of C.S. Lewis.

PHI 250 - Special Topics

(2 or 4 credits, non-yearly, consult department) A study of special topics in philosophy which are not adequately covered in other courses as a response to student or faculty needs or interests.

Note: May be taken more than once for credit provided that a different topic is studied.

PHI 310x - History of Political Thought

(4 credits, alternate years, consult department) A survey of the history of Western political thought through study of selected major thinkers in the tradition. Emphasis will be placed both on each thinker's political theory and how it fits in the broader history of Western political thought.

Prerequisites: at least one philosophy course, 4 credits in political science, junior class standing, or permission of the instructor.

Cross-Referenced: Cross-referenced in political science.

PHI 333 - Philosophy and Christianity

(4 credits, alternate years, consult department) An exploration of some set of topics that lie at the intersection of philosophy and the Christian faith.

Prerequisite: at least one philosophy course.

PHI 341x - Philosophy of Social Science

(4 credits, alternate years, consult department) An in-depth study of the philosophical foundations of the social and cognitive sciences. Issues discussed include, e.g., a) laws and explanations in social science, b) objectivity and values in the social sciences, c) rationality, d) relations between different social sciences and the physical sciences, e) philosophy of mind.

Prerequisites: at least one philosophy course. PHI202 or 342 may prove helpful, but not required.

Cross-Referenced: Cross-referenced in sociology.

PHI 342 - Philosophy of Natural Science

(4 credits, alternate years, consult department) This course will help one understand the natural sciences by examining a number of issues as they arise in the history of science. Issues discussed include: e.g., a) what distinguishes science from non-science? b) how are scientific theories justified? c) what is the role of values in scientific inquiry? d) what is required in scientific explanation? e) do science and religion conflict? f) what is involved in a comprehensive scientific worldview? Representative thinkers include, e.g., Isaac Newton, Pierre Duhem, Ernst Mach, Karl Popper, Thomas Kuhn.

Prerequisite: at least one philosophy course. PHI202 is helpful, but not required.

PHI 350 - Special Topics

(2 or 4 credits, non- yearly, consult department) A study of special topics in philosophy which are not adequately covered in other courses.

Note: May cover, for instance, timely topics which yet do not merit a permanent place in the curriculum. May be taken more than once provided a different topic is studied.

Prerequisites: two philosophy courses.

When Offered: Offered as a response to student or faculty needs or interests.

PHI 355 - Topics in Ethics

(4 credits, non- yearly, consult department) An advanced study of some topic(s) in ethics.

Prerequisite: PHI110 or 114.

PHI 398 - Directed Study

PHI 417 - Internship

(2 credits may apply toward the major)

PHI 450 - Senior Thesis

(2 credits, non- yearly, consult department) Students will write a senior thesis in philosophy under the direction of one of the philosophy faculty.

Prerequisites: philosophy major or minor, senior class standing.

PHI 499 - Honors Research

PHY 101 - Conceptual Physics

(3 credits) The course includes a study of linear and non-linear motion, Newton's Laws of Motion, momentum, energy, properties of matter, heat, sound, electricity and magnetism, light, and atomic and nuclear physics. These topics are studied in a conceptual manner that includes little mathematics (beginning high school algebra level). The historical perspective on these concepts and the way in which they were developed is included.

PHY 107 - The Physics of Everyday Life

(4 credits, alternate years, consult department) (IGE option under Science and the Natural World) A one-semester physics course for students seeking a physical science course to fulfill their natural science general education requirement and those students needing a one-semester physics course for a graduate school program. The primary goal of the course is to introduce students to the basic principles of physics that are at work in creation, as well as how they have been implemented technologically. Specific topics may vary somewhat, but will always focus on the foundational aspects of physics: mechanics, electromagnetism, wave behavior and thermodynamics. There will be some discussion of the historical development of physics and its relationship to faith.

Note: There is a laboratory component to this course.

Prerequisite: MAT109 or higher, or ACT math score of 24 or better (SAT 550 or above), or consent of department chair.

PHY 111 - General Physics I

(4 credits) (IGE option under Science and the Natural World) For students in mathematics, the physical sciences, and those students seeking candidacy to a medical school or other graduate program. Topics will include kinematics, Newtonian mechanics, energy, momentum and thermodynamics.

Note: There is a laboratory component to this course.

Prerequisite: C- or higher in MAT109, or ACT math score of 24 or better (SAT 550 or above), or consent of department chair.

PHY 112 - General Physics II

(4 credits) A continuation of General Physics I. Topics will include simple harmonic oscillation, mechanical and electromagnetic waves, electromagnetism and modern physics.

Note: There is a laboratory component to this course.

Prerequisite: successful completion of PHY111 with a grade of C- or better, or consent of department chair.

PHY 211 - Classical Physics I

(4 credits) (IGE option under Science and the Natural World) For students in mathematics, the physical sciences, and those students seeking candidacy to a medical school or other graduate program. Topics will include kinematics, Newtonian mechanics, energy, momentum, and thermodynamics.

Note: There is a laboratory component to this course.

Prerequisite: C- or higher in MAT112, or consent of department chair. (MAT112 may be taken concurrently with PHY211).

PHY 212 - Classical Physics II

(4 credits) A continuation of Classical Physics I. Topics will include simple harmonic oscillation, mechanical and electromagnetic waves, and electromagnetism.

Note: There is a laboratory component to this course.

Prerequisite: successful completion of PHY211 with a grade of C- or better.

PHY 213 - Electronics and Instrumentation

(3 credits, alternate years, consult department) For students seeking a minor in physics. Topics will include analog and digital electronics components, basic analog and digital theory of circuit operation, and interfacing recording instruments to experimental apparatus.

Prerequisite: PHY212 or permission of department chair.

PHY 231 - Engineering Statics

(3 credits, alternate years, consult department) Primarily for pre-engineering students. Topics include vector and scalar treatment of coplanar and noncoplanar force systems, resultants, equilibrium, friction, centroids, second moments, Mohr's circle, radius of gyration, internal forces, shear, and bending diagrams.

Prerequisite: PHY211.

PHY 250 - Special Topics

(2 or 4 credits, alternate years, consult department) A study of topics in physics which are not fully covered in other courses.

Note: May be repeated provided a different topic is studied.

Prerequisites: PHY111, 112 or 211, 212.

When Offered: Offered to accommodate student or faculty interests.

PHY 270 - Classical Dynamics

(4 credits; alternate years, consult department) The study of how things move. Topics will include kinematics of particles and systems of particles, Newton's laws of motion, momentum and energy, oscillations/vibrations, Lagrangian mechanics, central forces, non-inertial frames, rigid bodies, and coupled oscillators.

Prerequisites: PHY212 and MAT212. (MAT212 may be taken concurrently with PHY270).

PHY 370 - Modern Physics

(4 credits, alternate years, consult department) For students seeking a minor in physics or those interested in obtaining a physics teaching endorsement. Topics will include special relativity, quantized energy and momentum, Schrodinger's Equation, nuclear and particle physics, and cosmology.

Note: There is a laboratory component to this course.

Prerequisites: successful completion of PHY212 with a grade of C- or higher, or permission of instructor.

PHY 398 - Directed Study

PHY 417 - Internship

PHY 433x - Introductory Physical Chemistry

(4 credits, alternate years, consult department) An introductory course in chemical thermodynamics, quantum chemistry and chemical kinetics.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisites: MAT112 and 211, and CHE112 or PHY212.

Cross-Referenced: Cross-referenced in chemistry.

PHY 436x - Intermediate Physical Chemistry

(4 credits, alternate years, consult department) An intermediate course in chemical thermodynamics, quantum chemistry and chemical kinetics.

Note: Three lectures and one three-hour laboratory period per week.

Prerequisite: PHY433x.

Cross-Referenced: Cross-referenced in chemistry.

PHY 499 - Honors Research

PSC 101 - American National Government

(4 credits) (IGE option under Self and Society) (American politics) A broad survey of the major political and governmental institutions in the United States. This course examines how citizens attempt to influence their government and how the government responds. The course also develops the foundations for a biblical perspective on the role of government and the role of citizens.

PSC 105 - Political Ideologies

(4 credits) (IGE option under Self and Society) (American politics) A survey of contemporary political ideologies such as liberalism, conservatism, socialism, and others. Students will seek to understand the relevance of these ideologies for public policy, and will seek to develop a Christian perspective on, and critique of, contemporary ideologies.

PSC 201 - State and Local Government

(2 credits) (American politics) This course examines the political relationships between the federal, state and local levels of U.S. government. Though we focus primarily on state and local governments and policy making, we also seek to determine which level of government is best suited to address the different social and economic problems. The role of the Christian in politics is also explored.

PSC 210x - Introduction to Political Philosophy

(4 credits, alternate years, consult department) (IGE option under Belief and Reason) This course introduces the student to philosophy by means of an examination of the main questions of normative social and political theory. It examines such matters as the justification and purpose of government, anarchism, justice, equality and human rights.

Cross-Referenced: Cross-referenced in philosophy.

PSC 220 - Politics and Public Policy

(4 credits, alternate years, consult department) (American politics) A general examination of domestic and foreign policies of the United States. Education, health care, civil rights and economic policy are among the various policies explored. Particular attention is given to the differences between Christian liberal and Christian conservative policy perspectives of problems such as crime, discrimination, poverty, degradation of the environment and others.

PSC 225 - Introduction to Law

(4 credits, alternate years, consult department) (American politics) This course briefly surveys the landscape of the American legal system. Most of the course, however, is devoted to examining significant constitutional issues, such as government powers, civil rights and civil liberties.

PSC 230 - International Relations

(4 credits, alternate years, consult department) An introduction to basic concepts in the study of the modern states system. We will study especially the problem of war and diplomacy in an "anarchical society." In addition, we will explore some Christian perspectives on the theory and practice of international relations, especially the contested concept of sovereignty.

PSC 235 - Comparative Politics

(4 credits) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

A broad survey of politics, political change, political institutions and public policy in several selected countries from different continents. Contrasts with the United States are emphasized and special attention is paid to historical development, ideological, religious and social factors.

PSC 260 - Human Geography

(4 credits) General Education Requirement / Option: (Integrative General Education Cross-Cultural Requirement)

This course introduces the study of political, physical and cultural features of space and place around the world. Familiarity with major physical and political features of the world's regions will be stressed. In addition, the course will raise various issues connected with the cultural aspect of geography, e.g., perceptions of place, changes in space over time, the interactions of human communities, the natural environment and patterns of human presence on the land.

PSC 295 - Electoral Politics Field Experience

(2 credits, alternate years, consult department) (American politics) This course provides an opportunity to explore elections as the central mechanism of democratic accountability in American government, by means of supervised reading and reflective involvement in an election campaign.

Note: Graded on a pass/no pass basis.

Prerequisite: PSC101 or 201.

PSC 310x - History of Political Thought

(4 credits, alternate years, consult department) A survey of the history of Western political thought through study of selected major thinkers in the tradition. Emphasis will be placed both on each thinker's political theory and how it fits in the broader history of Western political thought.

Prerequisite: junior class standing, or permission of the instructor.

Cross-Referenced: Cross-referenced in philosophy.

PSC 320 - Christians and the Political Order

(4 credits, alternate years, consult department) (American politics) This course centers on the implications of the Christian faith for Christians in the political order. We will explore historical and current Christian interpretations of the role of government in society, distilling biblical values which undergird them.

Prerequisite: junior standing, or permission of the instructor.

PSC 325x - American Political Thought

(4 credits, non-yearly, consult department) (American politics) A survey of the historical development of American political thought with attention to significant American political thinkers from the colonial period to the present. Special emphasis will be given to the uneasy relationship between liberalism and democracy and the interaction between American political institutions and culture.

Cross-Referenced: Cross-referenced in history.

PSC 330 - Topics in International Problems

(2-4 credits, non-yearly, consult department) This course explores a particular problem in international politics, using descriptive, theoretical and normative perspectives. Issues addressed may include war, ethics and foreign policy, and hunger. We will explore relevant Christian thinking to assess proposed solutions.

Note: May be taken more than once provided a different topic is studied.

PSC 340 - Topics in American Politics and Institutions

(2 credits, non-yearly, consult department) (American politics) An examination and analysis of one of the following three aspects of the American political system: the presidency, the Congress or political behavior. The latter consists of voting behavior and the role, character and political strength of interest groups and political parties. Each time the course is taught the student will be offered an opportunity to increase his or her understanding of one of these critical components of the American political system.

Note: May be taken more than once provided a different topic is studied.

PSC 350 - Special Topics

(2 or 4 credits, non-yearly, consult department) A study of political themes or issues not fully covered in other courses in response to student or faculty interests.

Note: May be taken more than once, provided a different topic is studied.

PSC 398 - Directed Study

PSC 417 - Internship

(4 credits may apply toward the major)

PSC 499 - Honors Research

PSY 111 - General Psychology

(4 credits) (IGE option under Self and Society) This course is an overview of the field of psychology and includes topics such as biological bases of behavior, learning and memory, motivation and emotion, human development, personality, intelligence, abnormal behavior and therapy. The course emphasizes methodologies including observation, correlational and experimental as they are used in the study of psychology. A major purpose is to have the student struggle with the question, "What is psychology?" Finally, this course provides students with the necessary background in psychology to move on to other more advanced topics in the field.

PSY 214x - Social Psychology

(4 credits) This course involves the study of the way individuals think about, influence and relate to one another. Topics include: attitude change, social thinking, conformity, obedience, persuasion, prejudice, aggression, altruism, roles, norms and environmental influences on social behavior. The major aim of the course is to encourage an appreciation of the relationship between personal and situational determinants of social behavior.

Prerequisite: PSY111, 221, or SOC101.

Cross-Referenced: Cross-referenced in sociology.

PSY 215 - Research Design and Introductory Statistics

(4 credits) This course acquaints the student with basic empirical research techniques in the behavioral sciences including political science, psychology, social work and sociology. The course aims to enable the student to function as a conductor and a consumer of behavioral science research. Techniques include: observation, questionnaire and survey, interview, single-subject designs, qualitative research, and experimental and quasi-experimental methodologies. Topics include: descriptive and basic inferential statistics, sampling methods and research ethics.

Prerequisites: PSY111, SOC101, PSC101, or PSC105, and fulfillment of the Quantitative Reasoning requirement.

PSY 216 - Research Design and Advanced Statistics

(4 credits) Skills in statistical analysis and interpretation of psychological research are developed in this course with emphasis on correlation, regression and analysis of variance. Basic skills learned in Research Methods I are extended through practice in conducting, analyzing and reporting research using statistical software such as SPSS.

Prerequisite: PSY215.

PSY 221 - Developmental Psychology: Childhood

(4 credits) (IGE option under Self and Society) The study of the physical and mental development of the child from the prenatal period into adolescence. The course includes the study of physical, cognitive, moral, social and personality development of childhood and adolescence.

PSY 224 - Developmental Psychology: Adolescence

(4 credits) Adolescents experience many changes in a few short years as they transition from childhood to adulthood. This course explores the major psychological issues and theories in adolescent development with emphasis on cognitive development, self-concept, peer relationships and sexuality, among others.

PSY 225 - Developmental Psychology: Adulthood

(4 credits) This course explores psychological issues and theories in normal adult development, with emphasis on cognitive, social and personality functioning from young adulthood to old age.

PSY 230 - Industrial/Organizational Psychology

(2 credits, alternate years, consult department) This course covers the psychological issues of the work place such as personnel selection and development, organizational psychology and the work environment. The professional activities of I/O psychologists are examined including selection and the placement of new employees, staff training and development, performance management, organizational development, analysis of the quality of work life and ergonomics.

PSY 240 - Helping Skills

(2 credits; alternate years, consult department) This course provides a first exposure to the practice of counseling/helping. A major emphasis will be the skilled helper model, an introductory model of active helping/counseling. This model focuses on helping clients understand and manage their problems and develop their unused opportunities and resources. Students will learn and practice the skilled helper model in a workshop setting that requires a great deal of active participation, self-reflection, journaling, and listening to peers in pseudo-counseling role-plays.

Prerequisites: PSY111 or PSY221.

PSY 260 - Psychology of Personality

(4 credits) Includes theories about the dynamics and structure of personality and current research on personality. The course emphasizes psychoanalytic, trait, humanistic and behavioral views of personality.

Prerequisites: PSY111, 221, or both PSY224 and 225.

PSY 315 - Learning and Cognition

(4 credits, alternate years, consult department) An introduction to the topics of learning, memory and cognition within the field of experimental psychology. An emphasis will be placed on approaching problems as an "experimental psychologist." Advantages and limitations of the experimental approach and applications of the knowledge base of experimental psychology will be highlighted.

Prerequisites: PSY111 and 215.

PSY 319 - Motivation and Emotion

(4 credits, alternate years, consult department) Why do we do what we do? How do we know what we want and what we need? How do we set goals for ourselves and act to achieve them? These are some of the questions that the psychology of motivation and emotion attempt to answer. This course will examine universal and specific motivations and emotions in the context of physiological, cognitive and affective systems. It will also pursue applications of motivation and emotion to the psychology of addiction, health, coping and optimal functioning.

Prerequisites: PSY111 and 215.

PSY 360 - Psychopathology

(4 credits) This course will provide a broad survey of what is considered to be disordered in behavior, emotional expression, and cognition in adults. Emphasis will be placed on a scientific view of psychopathology. The two main foci of the course are the (a) description of various behaviors, symptoms, syndromes and illnesses as described in the most recent edition of the Diagnostic and Statistical Manual (DSM) of the American Psychiatric Association, and (b) research and theories concerning etiology including discussion of environmental, biological, social and interactive perspectives. While intervention and childhood disorders will be discussed, they are not the primary focus of this course.

Prerequisite: 4 credits of psychology courses.

PSY 390 - Psychology Seminar

(2 or 4 credits, alternate years, consult department) A study of a selected topic.

Note: The course may be repeated on different topics for a total of 8 credits.

Prerequisites: PSY111 and four additional credits in psychology.

PSY 398 - Directed Study

PSY 402 - Introduction to Clinical Psychology

(4 credits, alternate years, consult department) This course provides a first exposure to the theory and practice of clinical psychology. A major emphasis will be a review of the various theories of psychotherapy. The way in which these theories are applied within professional psychology constitutes a secondary, but strong, emphasis.

Prerequisites: PSY111 and eight additional credits in psychology.

PSY 405 - History and Systems of Psychology

(4 credits, alternate years, consult department) This course is one of the senior capstones to the psychology major. It is an overview of the history and theories which have shaped contemporary psychology. Particular attention is given to the assumptions and presuppositions underlying the discipline, as well as the nature of the discipline and the ways in which thoughtful Christians can integrate their faith with psychological theory and method.

Prerequisite: 12 credits of psychology courses and at least junior status.

PSY 406 - Psychology Research Lab

(4 credits) As a culminating experience, senior students conduct a semester-long empirical research project and produce an APA-formatted report. This is substantive project that allows the student to individually explore a self-selected research topic in depth and to experience the research process from initial idea to finished publication-ready manuscript. It challenges the student to think creatively, to integrate knowledge and skills obtained throughout the psychology curriculum, and to produce a worthwhile contribution to the field.

Prerequisites: 20 credits of psychology courses including PSY215 and 216.

PSY 417 - Internship

(4 credits may apply toward the major)

PSY 418 - Christ and Psychology

(4 credits, alternate years, consult department) This course is one of the senior capstones to the psychology major. The course challenges thoughtful Christians to be critical but genuinely appreciative of the increasing role psychology is playing in modern life. A sizeable literature has developed which focuses on the relationship between orthodox evangelical Christianity and the formal discipline of psychology. The course examines some of this literature and asks: How can a scientific psychology be compatible with a person-oriented Christianity? How can Christians integrate their faith with psychological theory and methods?

Prerequisite: 12 credits of psychology courses and at least junior status.

PSY 420 - Directed Research

(1-4 credits) Directed research involves students in research projects conducted under the supervision of department faculty.

Note: Encouraged for those students with expectations of graduate study. With the approval of the department, students may register for more than one semester.

Prerequisites: 8 credits of psychology, approval of the research director and the department chair.

PSY 499 - Honors Research

REL 150 - Christian Story I: Biblical Tradition

(4 credits) This course presents an overview of and orientation to the Bible, focusing on its content, character, role in the Christian faith, and covenant themes of creation, fall, redemption, and new creation. This course begins the development of theological thinking for academic study in the liberal arts and equips students for the task of integrating faith and learning in their academic work. Students should complete this course by the end of their second semester.

Note: Does not count toward a religion major or minor.

REL 210 - Christian Spirituality

REL 250 - Christian Story II: Theological Tradition

(4 credits) This course presents an overview and orientation to Christian theology focusing on its formation, content, role in the Christian faith throughout Church history, and its interpretation of key biblical subjects such as God, Christ, creation, sin, redemption, church, and new creation. This course completes the Christian Story sequence and prepares students for a lifetime of critical thinking and faithful living from a biblical-theological perspective. Students should complete this course by the end of their fourth semester.

Note: Does not count toward a religion major or minor.

Prerequisite: REL150.

REL 260 - Christian Ethics

(2 credits, offered at the discretion of the department, consult department) A biblically based, theologically and historically informed study of both personal and social moral issues from a Christian perspective.

REL 280 - History of Christianity

(4 credits) A survey of the development of Christianity from the apostolic period to the contemporary world. Themes examined will include the separation of Church and Synagogue, Christianity in the Roman Empire, ecumenical councils, missionary expansion of the church in Europe and Asia, monasticism, the church in the High Middle Ages, the Protestant and Catholic Reformations, Confessionalism and the Wars of Religion, Puritanism, Pietism, The Enlightenment, Christianity and European Colonialism, Revivalism, Modernism and Evangelicalism, modern missionary expansion, the ecumenical movement, and Christianity as a global religion.

REL 290 - Christian Witness and Community Development

(4 credits) This course is an examination of Christian witness as verbal proclamation (evangelism), reasoned defense (apologetics), as a distinctive lifestyle and as social action (justice). Students will explore the meaning of the gospel, in the context of a biblical theology of God's holistic plan of redemption, and various models of evangelism, apologetics and justice, especially the model of Christian community development.

Prerequisite: REL250 or permission of instructor.

REL 294 - Introduction to Christian Missions

(2 credits) A general overview of the biblical foundations and historical evolution of Christian mission, with special emphasis upon the modern development of mission theory and practice.

Prerequisite: REL250.

REL 295 - Intercultural Communication

(2 credits) Christian ministry and mission is essentially an ongoing process of interacting effectively with others in ways appropriate to one's message and global/local contexts. By providing a progressively integrated understanding of intercultural issues, this course will enable students to apply principles of communication through their particular vocation or ministry so that they connect theory with models and practice to appropriately communicate the Gospel message across cultures and micro-cultures.

REL 310 - Christian Spirituality

(2 credits) A study of the meaning, purpose and practices of Christian spirituality as this has been understood in the Christian tradition. The course emphasizes the practice of spiritual disciplines and the relevance of spirituality in our contemporary world.

Prerequisite: REL250.

REL 317 - Topics in Old Testament Studies

(2 credits) A study of a single book or larger section of the Old Testament or a current area of critical inquiry concerning the Old Testament. Possible topics include, but are not limited to, the Pentateuch, the Historical Writings, the Prophets, and the Poetic and Wisdom books.

Note: May be taken more than once provided a different topic is studied.

Prerequisites: REL150 and sophomore class standing.

REL 322 - Topics in New Testament Studies

(2 credits) A study of a single book or larger section of the New Testament or a current area of critical inquiry concerning the New Testament. Possible topics include the Synoptic Gospels, the Book of Acts, the Johannine Literature, the Epistolary Literature, the Apocalypse.

Note: May be taken more than once provided a different topic is studied.

Prerequisite: REL150 and sophomore class standing.

REL 328 - Biblical Interpretation and Theology

(4 credits) An examination of the past and present methods and proposals for biblical interpretation and biblical theology. The course will analyze and critique various models for hermeneutics and theological interpretation and also assist students in constructing exegetical methods that are biblically based, theologically informed and culturally relevant.

Prerequisite: REL150.

REL 370 - Calvin and Calvinism

(4 credits, alternate years, consult department) A study of John Calvin's INSTITUTES OF THE CHRISTIAN RELIGION, as well as a survey of other varieties of Reformed theology, including later Calvinism.

Prerequisite: REL250.

REL 375 - Topics in Theology

(4 credits, alternate years, consult department) A study of one or more standard areas of theology, (such as the doctrines of Revelation, God, Christ, the Holy Spirit, Humanity, Salvation, the Church, and Last Things) from a classical as well as a contemporary perspective.

Note: The course may be repeated for credit provided a different topic is studied.

Prerequisites: REL150 and REL250.

REL 382 - Religion in America

(4 credits) Focusing on the Christian tradition, this course will examine the individual, institutions, movements and faith traditions which have shaped and contributed to the American religious experience. To understand both the variety of and unity within the pluralist religious landscape, the course will seek to evaluate the interrelationship between religion and the broader social, cultural and political aspects of the American experience.

REL 384 - Topics in the History of Christianity

(2 credits, offered on demand or discretion of department, consult department) A historical study of a religious group, theological movement or important leader in the history of the Christian church.

Note: This course may be repeated for credit provided a different topic is studied.

REL 385 - Topics in Religion

(2-4 credits, alternate years, consult department) A study of an interdisciplinary area of religion, not sufficiently covered by other courses, in response to student or faculty interests.

Note: This course may be repeated for credit provided a different topic is studied.

Prerequisite: REL250 or permission of instructor.

REL 390 - World Religions

(4 credits) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

The major religions of India, East Asia and the Middle East are examined in the light of the Christian faith. This course emphasizes the interaction of religion and culture with a view to cross-cultural understanding. In-depth research into a specific culture and religion is required.

REL 392 - Topics in Missiology

(4 credits, alternate years, consult department) A topical and selective study of major missiological themes, permitting students to read and reflect intensively upon the nature and challenge of Christian mission. Topics will vary from year to year. Sample topics might include Religious Conversion, The Finality of Christ in a Pluralistic World, Interfaith Dialogue, Contextualization, Women in Mission Yesterday and Today.

Note: This course may be repeated for credit provided a different topic is studied.

Prerequisite: REL294 or permission of instructor.

REL 398 - Directed Study

REL 417 - Internship

(2 credits may apply toward the major)

REL 420 - Topics in Christian Community Development

(4 credits) This is an interdisciplinary course that will analyze a major topic in Christian community development related to relocation, reconciliation and redistribution. There will be significant biblical and theological content integrated with the given topic. A service learning component, consisting of at least 20 hours of student engagement in meeting an identified community need, is required. Students will integrate course materials and various disciplines with their service learning and any past Christian community development experiences. Students will also explore questions and issues raised in this area. This course features the writing and presentation of a major integration paper, discussions, analysis and critique of research.

Prerequisites: REL290 and senior class standing.

REL 472 - Senior Seminar in Religion

(4 credits) A research seminar in which students will explore contemporary questions and issues in light of the Christian religious and theological tradition. Features the writing and presentation of a major paper, discussions, analysis and critique of research.

Prerequisites: REL150, REL250 and senior class standing.

REL 499 - Honors Research

SOC 101 - Principles of Sociology

(4 credits) (IGE option under Self and Society) An introduction to sociology, its major concepts, tools and perspectives. This course provides an understanding of societies, of culture, of major social institutions such as the family, religion, and education, of social inequality, and of social change.

SOC 202 - Social Problems

(4 credits) This course is about learning to critically think about society and various problems in society. This course will examine a number of social issues as we wrestle with how we can decide if an issue is a social problem, decide which social problems might be more significant than others, and evaluate potential solutions for social problems. We are going to wrestle with some challenging questions with the goal of helping us to think deeply about how we might seek justice on an individual level and within society.

SOC 210 - Marriage and Family

(4 credits) This class employs the sociological imagination to think about what "family" is and how the social world has shaped both families and the images and ideals that suggest what families or marriage should be. This class will use the tools of sociology to think critically about "family" as a social institution. We will wrestle with various ways of defining what family is, work to understand how families are shaped by the social world, and ask if using the sociological imagination can help us to look at current debates about family in a new and productive way.

SOC 214x - Social Psychology

(4 credits) This course involves the study of the way individuals think about, influence and relate to one another. Topics include: attitude change, social thinking, conformity, obedience, persuasion, prejudice, aggression, altruism, roles, norms and environmental influences on social behavior. The major aim of the course is to encourage an appreciation of the relationship between personal and situational determinants of social behavior.

Prerequisite: PSY111, 221, or SOC101.

Cross-Referenced: Cross-referenced in psychology.

SOC 218 - Deviance and Social Control

(4 credits) In this course, we are going to explore a number of questions about the boundaries of acceptability within societies. Instead of just taking such boundaries for granted, we will look at how the creation of normality and deviance is a process of social construction. We will examine how society can influence or constrain people to live within or outside of the socially constructed boundaries. As we explore this subject, we will be challenged to reexamine our own understanding of what is deviant and what is normal, to reflect on how definitions of deviance shape our identities and values, and to wrestle with how definitions of deviance and attempts at social control affect others.

SOC 272 - Selected Topics in Sociology

(2 or 4 credits, non-yearly, consult department) A study of selected topics in sociology which are not adequately covered in other courses. Offered as a response to student or faculty needs or interests. Possible topics include: social change, social reform movements, the sociology of unconventional lifestyles, sociology of women, sociology of education, medical sociology, sociology of war and terrorism, and native American issues.

Note: May be taken more than once provided a different topic is studied.

SOC 280 - Service and Social Change

(4 credits) Some of the most troubling aspects of society are also the most persistent. In fact, social problems frequently seem "too big" to address. Yet, we also know that people are sometimes successful in reducing human suffering and reconciling social injustices. This course examines how they do so. The readings and class discussions will critically examine three questions: What motivates altruism and social engagement? What strategies do groups use to address human needs or to transform cultural and structural patterns? What is the potential of these efforts for creating meaningful, lasting change in society?

SOC 290 - Cultural Anthropology

(4 credits) (IGE option under Self and Society or Cross-Cultural Engagement. Cannot count toward meeting both requirements) This course is about learning a way of seeing and understanding other cultures and our own culture(s) - introducing and drawing on ideas and insights from the field of Cultural Anthropology. In a globalizing and increasingly interconnected world these ideas and insights can serve a critical need in helping us understand and learn how to live in with cultural diversity and complexity. Thus the value of this course is in learning a new way of seeing and understanding, a way that helps us think about what it means to be human, a way that helps us understand and live with our neighbors - locally and globally.

SOC 303 - The Criminal Justice System

(4 credits, alternate years, consult department) A study of the development of, issues in, and new directions for, the American criminal justice system. Each step of the system is critiqued in terms of intended and unintended consequences as well as official and operative goals, and is related to a detailed discussion of various correctional treatment programs: prisons, halfway houses, group homes, community-based treatment programs, probation, parole and others. Those in the criminal justice career concentration should take SOC218 first.

SOC 304 - Ethnicity, Power and Identity

(4 credits) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

This course examines and develops a sociological perspective on ethnicity, power and identity. The primary goal of this course is not simply to learn the attitudes or behaviors of specific racial groups. Instead, this course will seek to answer the questions: Where do social groups come from? What social dynamics emerge when one group of people has much more power than another? Our readings and discussions will shed light upon these questions from different perspectives. Along the way, we will also discuss the unique historical situations of specific groups as they endure and struggle against power imbalances (for example, the African American Civil Rights Movement).

SOC 307 - Corrections

(4 credits, alternate years, consult department) Evolution of and debates concerning community and non-community based correctional programs, relationships between correcting, reforming, rehabilitating, and punishing, tensions between protection of public safety and rights of the accused, evaluation of incarceration, probation, parole, diversion, alternate and restorative justice programs, issues in "proactive" and "reactive" debate.

Prerequisites: SOC218 and 303.

SOC 309 - Sociology of Gender

(4 credits, alternate years, consult department) An examination of the topic of gender, predominately using a sociological perspective. The study of gender from a sociological perspective develops an appreciation for how social structure, institutions and culture shape gender roles and the lives of those who play these roles - at the same time that gender roles shape culture, institutions and social structure. Attention will also be given to the "inherent or constructed" debate about gender roles, the role of the media in shaping gender, and the intertwining of gender and family, politics, work and religion.

SOC 312 - Sociology of Religion

(4 credits, alternate years, consult department) This course examines sociological perspectives on religion in a changing and globalized society. The course readings and discussion will focus on three questions: What is "religion"? What is the relationship between modernity and religiosity? How does one's social position shape his or her experience of religiosity? The course will encourage students to reflect upon the relationship between sociological insights and their own experiences of religion.

SOC 317x - American Indian Societies and Cultures

(4 credits, alternate years, consult department) General Education Requirement / Option: (Integrative General Education Cross-Cultural requirement)

This course surveys the historical development of American Indian peoples, particularly during the period of contact and conquest by Euro-Americans and particularly in the trans-Mississippi West region of what became the U.S. Topics include pre-contact life, oral literature, Indian accommodation and selective adaptation to Euro-American societies, Spanish, French and U.S. Indian policies, Native American religion, Christian mission work among American Indians, activism by and on behalf of American Indians, and reservation life.

Cross-Referenced: Cross-referenced in history.

SOC 340 - Sociological Research

(4 credits, alternate years, consult department) A comprehensive introduction to sociological research methods with emphasis on survey research. An opportunity for sociology majors or others to apply this methodology in the conduct of major research in an area determined in consultation with the instructor. Finished research reports will be considered for presentation at various sociological association meetings.

Prerequisites: SOC101 or equivalent.

SOC 341x - Philosophy of Social Science

(4 credits, alternate years, consult department) An in-depth study of the philosophical foundations of the social and cognitive sciences. Issues discussed include, e.g., a) laws and explanations in social science, b) objectivity and values in the social sciences, c) rationality, d) relations between different social sciences and the physical sciences, e) philosophy of mind.

Prerequisites: at least one philosophy course. PHI202 or 342 may prove helpful, but not required.

Cross-Referenced: Cross-referenced in philosophy.

SOC 351 - Ethnographic Research

(4 credits) An overview of ethnographic methods, goals, and the theoretical assumptions underlying them. Ethnography, the description and analysis of human life or culture, is based on qualitative fieldwork. The goal is to understand the "native's" point of view, to learn from people rather than study them. Students will have an opportunity to practice fieldwork methods and write a brief ethnography.

Note: Preceding course recommendation: SOC290.

SOC 398 - Directed Study

SOC 401 - Sociological Theory

(4 credits, alternate years, consult department) In this course, we are going to consider a number of sociological theorists and ideas. We will not attempt a comprehensive examination of theory, either classic or contemporary. Rather, we will dive deeply into a number of texts to explore how theory can give us unique insights into the social world and the ways in which the social world shapes the lives of individuals. And we will contemplate if, instead of just interpreting the world in various ways, these theories suggest ways in which to change it.

Prerequisites: SOC101, sociology major or permission of instructor.

SOC 417 - Internship

(4 credits may apply toward the major)

SOC 499 - Honors Research

SPA 101 - Beginning Spanish Language and Culture

(3 credits) Combined study of language and culture. Study of major social systems and themes of Hispanic culture. Elementary study of the language in a communicative context. Emphasis upon integration of developing language skills with cultural understanding and sensitivity in oral communication settings.

Prerequisite: No previous study of Spanish, or placement by the foreign language placement exam.

SPA 102 - Beginning Spanish Language and Culture

(3 credits) Combined study of language and culture. Study of major social systems and themes of Hispanic culture. Building on previously acquired ability in Spanish, elementary study of the language in a communicative context. Emphasis upon integration of developing language skills with cultural understanding and sensitivity in oral communication settings.

Prerequisite: SPA101, or placement by the foreign language placement exam.

SPA 201 - Intermediate Spanish Language and Culture

(3 credits) (IGE option under Language and Culture) Combined study of intermediate language and culture. Study of primary sources in print, audio and visual forms to develop appreciation for the ways culture in general and the language's culture in particular shape a variety of social contexts. Building on previously acquired ability in Spanish, continued study of language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills.

Prerequisite: SPA102, or placement by the foreign language placement exam.

SPA 202 - Intermediate Spanish Language and Culture

(3 credits) Combined study of intermediate language and culture. Study of primary sources in print, audio and visual forms to develop appreciation for the ways culture in general and the language's culture in particular shape a variety of social contexts. Building on previously acquired ability in Spanish, continued study of language in a communicative context with considerable emphasis upon precision and expansion of linguistic skills.

Prerequisite: SPA201, or placement by the foreign language placement exam.

SPA 311 - Advanced Spanish Conversation

(1 credit) The main goal of this course is to improve oral communication, which includes speaking as well as listening, comprehension. Since successful communication also involves cultural awareness of the Spanish speaker's feelings, thoughts and attitudes, part of this course involves studying sources of these important underlying constructs.

Note: Taught in Spanish. Course repeated a minimum of 3 semesters. Graded on a pass/no pass basis.

Prerequisite: SPA202 or equivalent proficiency.

SPA 312 - Advanced Grammar and Composition

(3 credits) Advanced development of writing skills and a review of difficult grammar concepts. Students will be expected to write in a variety of contexts. Emphasis will be on the writing process. The majority of the assignments will be completed in steps including multiple drafts. Additionally, students will be expected to review grammar and complete some grammar exercises.

Note: Taught in Spanish.

Prerequisite: SPA202 or equivalent proficiency.

SPA 314 - Introduction to Reading Hispanic Literature

(3 credits) Advanced development of reading skills and strategies and an introduction to Hispanic literature and literary topics. Students will learn how to effectively read a literary text in Spanish. Attention will be paid to strategies for understanding context through vocabulary and grammar recognition. Additionally students will be introduced to the literary genres and cultural contexts of the texts they study as well as pertinent critical commentary.

Note: Taught in Spanish.

Prerequisite: SPA202 or equivalent proficiency.

SPA 326 - The Sounds of Spanish

(3 credits, alternate years, consult department) An in-depth study of Spanish phonetics. Topics include techniques and rules of Spanish articulation, analysis of the sounds of vowels and consonants in Spanish and their differences from English pronunciation, syllabication, rhythm, stress, pitch and intonation.

Note: Taught in Spanish.

Prerequisites: SPA202 and one 3-credit 300-level course.

SPA 327 - Hispanics in the United States

(3 credits, alternate years, consult department) A wide-ranging study of the current situation of Hispanics in the United States. After an historical overview, a thematic approach will be taken to better understand the role of Hispanics in the United States and their growing influence. Possible topics include demographics, voting tendencies, purchasing power, Hispanic media, religion, labor laws, immigration, Spanglish and bilingualism, among others. Using interviews and research, the course will conclude with a study of our Hispanic neighbors here in northwest Iowa.

Note: Taught in Spanish.

Prerequisites: SPA202 and one 3-credit 300-level course.

SPA 331 - Introduction to Translation and Interpreting

(3 credits) An introduction to the related fields of translation and interpreting. Students will be introduced to the different theories and techniques of translation and interpreting, the differences between the two fields and within each field, ethical and moral considerations for translators and interpreters, the role of translating and the translator as well as interpreting and the interpreter, and the modes of interpreting including consecutive, simultaneous and sight-translation. Students will apply the theoretical principals by working primarily from their B language to their A language for both translation and interpreting.

Prerequisites: SPA202 and two 3-credit 300 level Spanish courses, or by permission of instructor.

SPA 332 - Interpreting I

(3 credits, alternate years, consult department) An in-depth study of interpreting at the introductory level between Spanish and English, with both theoretical background knowledge and applied practice included. Specific topic areas covered involve legal, medical and religious interpreting.

Prerequisites: SPA331.

SPA 333 - Interpreting II

(3 credits; alternate years, consult department) An intermediate level course taken after completion of Interpreting I, students will continue to strengthen their skills in sight-translation and short and long consecutive interpreting while beginning in-depth study of simultaneous interpreting. Students will reinforce their interpreting techniques by applying consecutive interpreting strategies to simultaneous interpreting. Course material will broaden from legal, medical and religious interpreting to include other areas such as science and politics, and will include continued discussion of moral, ethical and Christian considerations for interpreters. Although primarily from Language B to A, students will also begin to interpret from their A language into their B language more and more.

Prerequisites: SPA331 & 332

SPA 334 - Interpreting III

(3 credits; alternate years, consult department) An advanced level course taken after completion of Interpreting II, students will consolidate their skills in sight-translation and short and long consecutive interpreting while primarily focusing on simultaneous interpreting. Students will deepen and reinforce their simultaneous interpreting abilities with the addition of new strategies, skills building exercises and practice techniques. Course material will include a broad range of materials from the legal, medical, religious, scientific, political and other fields and will increasingly be from real-world situations. Continued discussion of moral, ethical and Christian considerations for interpreters. Students will interpret both from their B language into their A language as well as A to B.

Prerequisites: SPA 331, 332 & 333.

SPA 336 - Translation I

(3 credits, alternate years, consult department) This course is an introduction to the theory, methods, techniques and problems involved in basic translation. The first half of the semester will focus mostly on translating from Spanish to English. The second half of the course will involve general material from specific areas of life: popular culture, music, social sciences, education, business, medicine, the legal profession, etc., with translation exercises from both Spanish to English and English to Spanish.

Prerequisites: SPA331.

SPA 337 - Translation II

(3 credits; alternate years, consult department) An intermediate level course taken after completion of Translation I, students will continue to strengthen their skills in translation by becoming more adept at applying the theory, methods and techniques first introduced in earlier courses. Course material will come from a broad array of legal, medical, religious, scientific and political sources, as well as materials stemming from community needs. Although primarily from Language B to A, students will also increasingly translate from their A language into their B language more and more.

Prerequisites: SPA 331 & 336.

SPA 338 - Translation III

(3 credits, alternate years, consult department) An advanced level course taken after completion of Translation II, students will consolidate their skills in translation. Students will learn how to improve earlier translations (either from their own translation or from others) as they target their translations for specific audiences. Course material will come from a broad array of legal, medical, religious, scientific and political sources, as well as materials stemming from community needs. Course material will be longer in nature and more challenging than that of Translation II. Students will translate both from their Language B into their Language A as well as A to B.

Prerequisites: SPA331, 336 & 337.

SPA 344 - Practicum in Spanish

(2 credits) Designed for advanced Spanish students, this practicum gives students the opportunity to practice their Spanish on a daily basis in a Spanish speaking environment. Emphasis is placed on the development of oral communication, both speaking and listening. Placement opportunities include, but are not limited to, living in the Northwestern College Spanish house or with a Spanish speaking Hispanic family.

Note: Minimum 14 week placement to receive credit. Graded on a pass/no pass basis. May be repeated. Up to four credits may be applied to the major.

Prerequisite: SPA202. Enrollment through permission of modern foreign languages department.

SPA 345 - Practicum in Translation and Interpreting

(2 credits, consult department) Designed for advanced translation and interpreting students, this practicum gives students the opportunity to practice their professional skills in a real world environment.

Note: Graded on a pass/no pass basis.

Prerequisites: SPA334 , 338 & permission of the MFL department.

SPA 351 - Survey of Hispanic Literature from Spain

(3 credits, alternate years, consult department) A study of peninsular Spanish literature from El Cid to the present. Emphasis upon major literary movements and their representative masterpieces.

Note: Taught in Spanish.

Prerequisite: SPA314 or permission of instructor.

SPA 352 - Survey of Hispanic Literature from the Americas

(3 credits, alternate years, consult department) A study of Spanish Latin-American literature from the colonial period to the present. Emphasis upon major literary movements and their representative masterpieces.

Note: Taught in Spanish.

Prerequisite: SPA314 or permission of instructor.

SPA 365 - Special Topics in Language

(2-4 credits) See course description for LAN365.

SPA 376 - Study Abroad Cross-Cultural Preparation

(1 credit) Lack of cross-cultural competence and sensitivity is a prominent cause of much frustration and anger between visitors to a country and the individuals living in that country. In preparation for their semester study abroad, in this course students will learn common cross-cultural skills and become aware of the joys and challenges they will face in those months. They will also spend time learning about the country in which they will be studying so they are well-versed in the basic historical, political, economic, social and cultural issues that country has dealt with and is dealing with.

Prerequisite: Acceptance into a study abroad program approved by Northwestern College for Spanish majors.

SPA 377 - Enhancing the Study Abroad Experience

(1 credit) Semester study abroad trips have two interweaving tracks: the external experience, where we encounter the new world in which we are living, and the internal experience, where we visit new places with ourselves. Writing a journal affords the student the opportunity to wrap these two journeys together and end up with a vibrant account of his/her experience - a keepsake that helps him/her remember and learn from the semester study abroad. Thus, a travel journal is the ultimate souvenir. To complete the requirements for this course, students will write a journal during their semester study abroad experience as well as write a final essay reflecting on both the semester abroad and their entire foreign-language collegiate experience.

Prerequisite: Acceptance into a study abroad program approved by Northwestern College for Spanish majors

SPA 398 - Directed Study

SPA 417 - Internship

(2 credits may apply toward the major or minor)

SPA 499 - Honors Research

SSC 308 - Methods of Teaching Secondary Social Science

(2 credits, alternate years, consult department) The content, technique and materials for teaching social science at the secondary level (for economic, history, political science, social science and sociology majors).

Note: Credit does not count toward the major.

SWK 140 - Introduction to Social Work

(4 credits) This course presents a history of the social work profession and social work practice. It incorporates the major fields of social work and the concepts and theories needed to understand the social, cultural, political, ethical and religious context that provides the ecological framework of social work practice, and it enables a thorough understanding of at-risk populations and of the problems which social work must address. Included are visits to agencies and guest lectures by social workers from the field. A central concern is the Christian's individual and collective responsibility for the health and welfare of fellow human beings.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

SWK 210 - Direct Helping Skills

(2 credits) This course is designed to help students develop basic interviewing skills and techniques in the area of social work. This course will provide foundational skills in interviewing so that students can work effectively with individuals, families and groups from all diverse populations. Different techniques of interviewing and theoretical principles of interviewing will be investigated. Students will increase their practical skills through the use of an interactive learning environment and through intensive use of video feedback and role playing.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: PSY111 or SWK140 or SOC101.

SWK 220 - Qualitative Research

(3 credits) The course prepares students to engage in qualitative inquiry and research designs, including narrative research, phenomenology, grounded theory, case study, participatory action research, focus groups, and ethnography. Comparative analysis of approaches, paradigmatic controversies, and mixed model designs are discussed. The course reviews strategies of inquiry, sampling methods, data collection, and analysis.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: SWK210 and PSY215.

SWK 230 - Topics in Social Work

(2-4 credits) A study of selected topics in social work which are not adequately covered in other courses. This course would be offered as a response to student or faculty needs and/or interests. Possible topics could include: child welfare, grief and loss, crisis intervention, gerontology, disabilities, mental health, violence/abuse, health care issues and policy, international social work, substance abuse and diversity issues.

Note: This course may be taken more than once provided a different topic is studied. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

SWK 231 - Human Behavior and the Social Environment (HBSE)

(4 credits) HBSE focuses on interaction between an individual's development and the functioning of groups, organizations and communities. This course is the foundation course in the human behavior and the social environment sequence to prepare baccalaureate students for general practice. It utilizes the person-in-the-environment perspective to integrate theoretical knowledge and research from the human, biological, psychological and social sciences in understanding human behavior. Human development across the life span within the context of the influence of ethnicity, race, culture, gender, social class, age, sexual orientation and disability is specifically addressed in an attempt to understand human behavior.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: PSY111, SWK140, SOC101, or permission of instructor.

SWK 232 - Diverse Populations and Social Justice

(4 credits) Examines theoretical foundations for understanding dynamics of social inequity, privilege, and oppression; focus on diversity and on populations at risk due to racism, sexism and classism; self-assessment of students' racial and cultural heritage as it shapes their attitudes and biases toward different cultural and racial groups; emphasis on helping students become culturally competent social workers who are grounded in their faith and who identify with the profession's respect for diversity and commitment to social and economic justice. Open to non-majors.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: PSY111, SWK231, SOC101, or permission of instructor.

SWK 360 - Social Policy and Social Work Advocacy

(3 credits) Examines social policy development and the political process, with special attention to the poor and disadvantaged. This course will assist students in acquiring skills to see the inadequacies, gaps and inequities in social policies in the past and present and help them develop critical thinking and advocacy skills, plus a commitment to change.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

SWK 370 - Individual/Family Theory & Practice

(4 credits) This course examines therapeutic theories and models of directed practice with individuals and family systems. Emphasis is on etiology, diagnosis, and assessment with the application of psychosocial history, treatment plans, crisis intervention plans, and use of diagnostic tools, such as the Diagnostic and Statistical Manual IV (current edition). The course reviews evidence-based research for generalist practice with diverse population groups.

Note: Open to social work majors only. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: PSY215, SWK140 and 231.

SWK 376 - Group Theory and Practice

(3 credits) Develops a framework for how people groups form, group development formation, group leadership skills, theoretical approaches to group work, and ethical considerations in group work, including diversity issues. Students will be involved in an interactive group lab and service-learning group project.

Note: Open to social work majors only. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisite: SWK370. Open only to Social Work majors.

SWK 386 - Community Theory and Practice

(4 credits) Examines generalist Social Work practice theories and skills with organizations and communities. Students will develop competencies related to larger system practice, such as networking, community needs assessment, organizational theory and dynamics, larger system planned change processes, program evaluation, social action, community planning, grant writing, and supervision.

Note: Open to social work majors only. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisite: SWK370. Open only to Social work majors.

SWK 398 - Directed Study

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

SWK 416 - Fundamental Issues in Social Work

(3 credits) The intent of this course is to introduce students to the philosophical issues related to social work practice. Areas of study include a critical analysis of the profession's role in society, and the relationships between social work values, its ethical guidelines, its knowledge base and research, and its practice skills. The course concludes with an analysis of the ethical and non-ethical issues facing practitioners and the various approaches to resolving ethical dilemmas.

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: SWK140, 231, and 370, or permission of instructor.

SWK 418 - Social Work Professional Seminar

(2 credits) This course is designed to complement the student's field placement and provide a forum in which to discuss field experiences-work assignments, problems, and ethical and non-ethical issues. The goal for this course is to help students make systematic associations between theory and practice in working with different population groups in various work settings.

Note: Open to social work majors only. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: SWK370, 376, and 386.

SWK 419 - Social Work Practicum

(10 credits) This is a field course which gives students the opportunity to practice generalist social work skills in a professional setting. The field sites are diverse, ranging from child and family services to mental health, community development and school social work. Emphasis is placed on introducing students to diverse ethnic, racial, sex and age-related group lifestyles and orientations.

Note: Open to social work majors only. Students should take this course in the semester immediately following SWK376, Theory and Practice II unless prior permission is received from the field placement director. Graded on a pass/no pass basis. Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

Prerequisites: SWK370, 376 and 386.

SWK 499 - Honors Research

Note: Transfer credits will be evaluated on a course-by-course basis. No academic credit will be granted for social work courses taken in programs which are not accredited by the Council on Social Work Education. No academic credit will be granted, in whole or in part, for life experience or work experience.

THE 100 - Theatre Production Ensemble

(1/2 credit) This course is designed to provide students with practical experience in the many facets of theatre production. Course members audition and interview for performance and production staff positions.

Note: Course may be repeated.

THE 101x - Mass Media and Society

(4 credits) Examines the historical development, organization and structure of the mass media in contemporary society, as well as related issues and problems. Suggests Christian perspectives on use of and participation in the mass media.

Cross-Referenced: Cross-referenced in communication studies.

THE 111 - Public Speaking

(2 credits) This course emphasizes the improvement of public speech habits and the development of proficiency in the organization and presentation of ideas.

THE 112 - Performance Studies

(4 credits, alternate years, consult department) An introduction to the use of performance as a means of interpreting, analyzing and celebrating literature, and as a tool for experiencing cultural diversity and enacting social change. By providing training in the principles and techniques of performing various genres of literature before an audience, this course seeks to expand students' understanding of the relationships between text and performer, performer and audience, and written and oral forms of literature. Assignments include solo and group performances from poetry, narrative fiction and oral history.

THE 113 - Theatre as a Fine Art

(4 credits) (IGE option under Aesthetic Experience) A survey course dealing with theatre as an art form, which emphasizes its history, literature and production techniques.

Note: Does not count toward a major or minor.

THE 114 - Stagecraft

(2 credits) A practical course which introduces students to the organization, skills and materials necessary for mounting a stage production.

THE 130 - Introduction to Design

(2 credits) An introduction to the concepts of design necessary to approach, create and critically evaluate a theatrical performance environment. Study of the processes of script analysis, design research and communication. Breakdown of aspects and elements that define the most commonly held principles of scenery, costume, lighting and sound design.

THE 133 - Ballet

(1 credit) A study of the form and techniques of ballet.

Note: Dance courses may be repeated up to a maximum of 4 credits.

THE 135 - Jazz Dance

(1 credit) A study of the form and techniques of jazz dance. Emphasis will be on the integration of modern musical performance.

Note: Dance courses may be repeated up to a maximum of 4 credits.

THE 206 - Playwriting: The One-Act

(2 credits, alternate years, consult department) A workshop approach to the study of dramatic structure culminating in the writing of a one-act play.

Prerequisite: THE113.

THE 215 - Acting

(4 credits) A study of the theoretical framework of the craft of acting.

THE 226 - Scene Design

(2 credits, alternate years, consult department) An introduction to the concepts, tools and skills of scenic design for the theatre. Emphasis is placed on practical hands-on experiences reinforcing previously learned design principles.

Prerequisite: THE130.

THE 227 - Introduction to Lighting Design

(2 credits, alternate years, consult department) An introduction to the basic skills, technology and artistic principles of stage lighting design.

Prerequisite: THE130.

THE 230 - Costume Design

(2 credits, alternate years, consult department) A study of methods and approaches to costume design for the theatre.

Prerequisite: THE130.

THE 260 - Drama Ministries Ensemble

(1/2 credit) A performance group emphasizing preparation of scripts for presentation in worship services and worship-related settings.

Note: Members are chosen by audition. Course may be repeated.

THE 305 - Story and Worship

(4 credits, alternate years, consult department) The study of the story of worship as well as story within worship. An application of the principles and practices of dramatic art to worship planning and leadership, and also a study of plays within the context of Christian corporate worship.

THE 308x - Methods of Teaching Secondary English and Speech

(2 credits, alternate years, consult department) A study and practice of methods for teaching English and speech in high school and junior high school. Topics include language and language learning, composition, oral language, planning, curriculum and assessment.

Note: Does not count toward a major or minor.

Prerequisites: EDU102 and ENG250LC.

Cross-Referenced: Cross-referenced in English.

THE 312 - Directing

(4 credits) Beginning directors review the guiding principles of theatrical art and then apply these to script selection, development of a prompt script, and the complete rehearsal process. Each student prepares a short play for public performance.

Prerequisites: THE113 and 215 or permission of instructor.

THE 315 - Acting: Scene Work

(4 credits, alternate years, consult department) Students perform scenes from classical, modern and contemporary literature. Emphasis is placed on script analysis.

Prerequisite: THE215.

THE 328 - Advanced Lighting Design

(2 credits, alternate years, consult department) An opportunity to apply the basic skills, technology and artistic principles of lighting design to script response, visual research and creative exploration. The capstone experience of the course will be for students to design lighting for a mounted one-act play.

Prerequisites: THE130 and 227.

THE 343 - History and Theory I

(4 credits, alternate years, consult department) A study of the development of the history and theory of theatre from its origins through the neoclassical period.

THE 344 - History and Theory II

(4 credits, alternate years, consult department) A study of the development of the history and theory of the theatre from the English Restoration through the postmodern era.

THE 360 - Film Aesthetics and Criticism

(4 credits; alternate years, consult department) (IGE option under Aesthetic Experience) This course is an examination of film as one of the dominant art forms and influencer's of our culture. We will look at film form, genres and content, and we will do film critique.

THE 365x - Acting for the Camera

(3 credits, alternate years, consult department) Study and practice of acting skills and techniques in front of cameras using scenes from television, film, commercials and industrial scripts. Course also includes sections on audition techniques and the business of acting.

Prerequisite: THE215, COM202, or permission of instructor.

Cross-Referenced: Cross-referenced in communication studies.

THE 398 - Directed Study

THE 405 - Practicum in Christian Theatre

(2 credits) A theatre laboratory experience using drama in a Christian context.

Note: Graded on a pass/no pass basis.

Prerequisites: theatre major and a career concentration in Christian theatre ministries.

THE 406 - Topics in Dramatic Literature

(2 credits) Specific subject matter of this course will vary from semester to semester, but will focus on the study of dramatic literature from one genre or one playwright or one geographical area or one theme/value.

Note: The course will be designed to welcome both majors and non- majors. The course may be taken more than once as long as the topic of study is different.

Prerequisite: THE113.

THE 407 - Playwriting: The Full-Length

(4 credits, alternate years, consult department) This continuation of the study of playwriting focuses on the challenges of the long form. The course includes the processes of writing according to classic structural principles, rewriting, formatting and submitting plays for publication.

Prerequisite: THE206 or permission of instructor.

THE 417 - Internship

(4 credits may apply toward the major)

THE 465 - Selected Topics in Theatre and Speech

(2-4 credits, alternate years, consult department) This course will focus on various issues of theatre and speech that are not covered in current course offerings. Possible topics might include: auditioning, stage management, musical theatre, contemporary theatre since 1967, specific genres (comedy, tragedy, theatre of the absurd, Greek, etc.), theatre as social criticism, ethnic theatre, theatre as historical documentary.

Note: May be taken more than once, provided a different topic is studied.

THE 499 - Honors Research

TSL 207 - TESL Grammar

(2 credits, alternate years, consult department) Study of English grammar as it applies to the teaching of English as a second language. Designed for active speakers of English who anticipate teaching ESL and wish to learn about those grammar topics of concern to ESL students.

TSL 222 - Practicum in TESL

(2 credits) Designed primarily for students who plan to teach English as a second language but who are not part of the TESL endorsement, this practicum places TESL minor students in an ESL teaching setting, primarily with recent immigrants in Sioux County. Students teach ESL to immigrants, either on a one-to-one basis or with small groups.

Note: Not applicable to the TESL endorsement. May be repeated. Graded on a pass/no pass basis.

Prerequisite: 201 proficiency in a foreign language, TSL307 or permission of instructor.

TSL 224 - Applied Linguistics in Language Education

(4 credits, alternate years, consult department) The course is a survey of key issues in socio-and applied linguistic inquiry on case studies of topics such as the nature of language, bilingualism and bilingual education as well as language planning and language policy.

TSL 225 - Language Development and Acquisition

(3 credits, alternate years, consult department) This course will examine the similarities and differences between the acquisition of first and second languages.

TSL 307 - Methods in TESL (Teaching English as a Second Language)

(3 credits, alternate years, consult department) Study of the unique problems and opportunities in teaching English to classes made up of individuals from heterogeneous language backgrounds. Discussion of recent research, methodology and grammar concepts unique to ESL.

Note: Intended for those contemplating teaching ESL.

Prerequisite: one year of a foreign language or permission of instructor.

Disclaimers

Minnesota

Northwestern College 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.

Texas

Northwestern College provides opportunities for online learning to students located in Texas, but is not regulated in Texas under Chapter 132 of the Texas Education Code because Northwestern College has no physical presence in Texas. Northwestern College is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools. Students who wish to file a complaint may contact the Texas Higher Education Coordinating Board or the Higher Learning Commission.

Washington

Northwestern College is authorized by the Washington Higher Education Coordinating Board (HECB) 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 Northwestern College to advertise and recruit for the following degree programs: Bachelor of Arts in Accounting; Bachelor of Arts in Actuarial Science; Bachelor of Arts in Art; Bachelor of Arts in Athletic Training; Bachelor of Arts in Biology Ecological Science; Bachelor of Arts in Biology General Major/Teaching; Bachelor of Arts in Biology Health Professions; Bachelor of Arts in Business Administration; Bachelor of Arts in Business Education; Bachelor of Arts in Chemistry; Bachelor of Arts in Christian Education and Youth Ministry; Bachelor of Arts in Computer Information Systems; Bachelor of Arts in Computer Science; Bachelor of Arts in Economics; Bachelor of Arts in Elementary Education; Bachelor of Arts in English Teaching; Bachelor of Arts in Exercise Science; Bachelor of Arts in History; Bachelor of Arts in Humanities; Bachelor of Arts in Journalism; Bachelor of Arts in Literature; Bachelor of Arts in Mathematics; Bachelor of Arts in Medical Laboratory Science; Bachelor of Arts in Modified Music with Elementary Education; Bachelor of Arts in Music; Bachelor of Arts in Music Ministry; Bachelor of Science in Nursing; Bachelor of Arts in Philosophy; Bachelor of Arts in Physical Education; Bachelor of Arts in Political Science; Bachelor of Arts in Psychology; Bachelor of Arts in Public Relations; Bachelor of Arts in Religion; Bachelor of Arts in Social Work; Bachelor of Arts in Sociology; Bachelor of Arts in Spanish; Bachelor of Arts in Sport Management; Bachelor of Arts in Theatre and Speech; Bachelor of Arts in Theatre; Bachelor of Arts in Translation and Interpretation: Spanish-English; Bachelor of Arts in Writing and Rhetoric. Authorization by the HECB does not carry with it an endorsement by the board 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 the HECB at P.O. Box 43430, Olympia, WA 98504-3430.