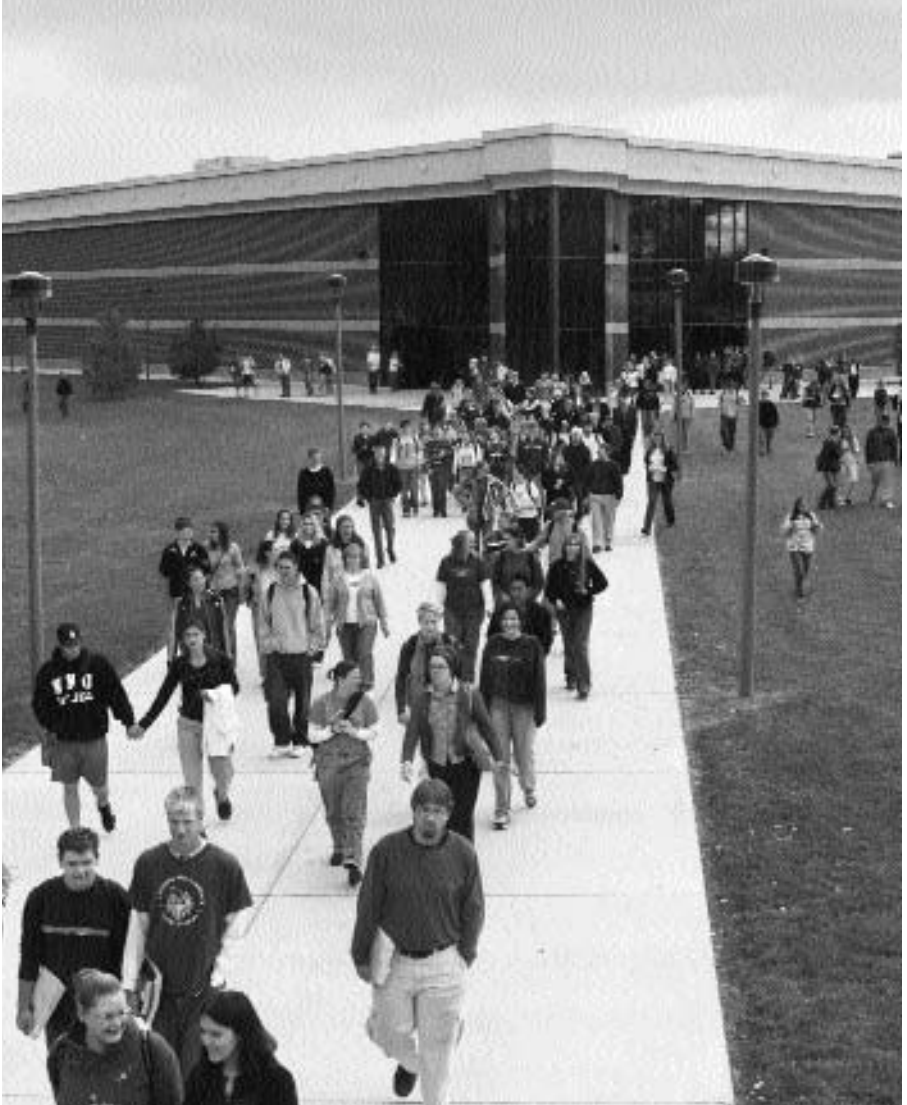


Northwest Nazarene University

Undergraduate Catalog



2003-2004

Important Contact Numbers

Area Code 208

Admissions (Admission information, campus visitations)

Administration Building		467-8496
	Fax	467-8645
	Toll Free	1-877-668-4968
	WEB	http://www.nnu.edu

Academic Advising Service

Administration Building	467-8463
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Athletics (Varsity eligibility)

Montgomery Physical Education Building	467-8876
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Bookstore (Textbooks, general books, clothing, supplies, express)

Student Center	467-8844
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Career Center (Career counseling, interest testing, résumé development, and occupational information)

Center for Professional Development

Professional Development	467-8495
Summer School - Undergraduate	467-8495
Travel Tours	467-8373
Concurrent Credit	467-8373
Express Education	467-8373
Center for Business Leadership	467-8870
Ministerial Continuing Education	467-8371
Student Center Lobby	467-8402

Director of Multicultural Affairs

Student Center Lobby	467-8768
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Financial Aid (Information on financial assistance programs and scholarships)

Administration Building	467-8347
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Food Service (Sodexo dining, Clyde's)

Student Center	467-8667
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Graduate Studies

Master of Education -- Curriculum & Instruction, Ed. Leadership, Exceptional Child, School Counseling	467-8345
Master of Arts in Spiritual Formation	467-8538
Master of Ministry	467-8538
Master of Business Administration	467-8447
Master of Social Work	467-8679

Housing Services (Residence halls and apartments)

Student Center	467-8643
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Internet Address**<http://www.nnu.edu>****Registrar's Office** (Transcript evaluations, Veterans Affairs,
School records)

Administration Building	467-6541
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Student Government Association of Northwest Nazarene University -- SGA

(Student government, clubs, organized events)

Student Center	467-8771
	467-8778

Academic Support Center (Reading/mathematics instruction,
course-related tutoring, and individualized learning activities)

Administration Building	467-8011
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This university catalog is correct in content and policy as of the date of publication. The provisions of this catalog are not to be regarded as an irrevocable contract between the student and the university. The university reserves the right to make changes of any nature in programs, calendar, academic policy, tuition and fees, or academic schedules whenever these changes are deemed by the university administration as necessary or desirable, including changes in academic policies, class schedules, course content, and the canceling of scheduled classes or other academic and non-academic activities.

NORTHWEST NAZARENE UNIVERSITY

HISTORY

A desire to educate their own children led the founders of Northwest Nazarene University, under the leadership of Eugene Emerson, to organize an elementary school in 1913. In the ensuing two years both high school and college courses were added to the curriculum. Thus began Northwest Nazarene University, a fully-accredited, co-educational, Christian comprehensive university of the arts, humanities, sciences, and professions.

In 1915, the first student was graduated from high school, and a year later Dr. H. Orton Wiley was elected President. The first degrees were conferred upon a class of four graduates in 1917.

Academic progress has been notable, including accreditation as a junior college in 1931 and as a four-year college in 1937. Master's programs were added in the mid-sixties. The name of the institution was changed from Northwest Nazarene College to Northwest Nazarene University in 1999.

The university presently offers undergraduate majors in 45 areas and master's programs in seven disciplines. In addition to programs on its home campus, NNU students may study in cooperative programs in 10 countries around the world. Northwest Nazarene serves approximately 1,150 undergraduate students, 275 graduate students, and 6,000 continuing education students each year. The president of the university is Dr. Richard A. Hagood, who became president in 1993.

CAMPUS

The university is located in Nampa in the Boise, Idaho, metropolitan area. The area provides many urban and rural advantages. The altitude of 2,500 feet, the year-round mild climate, and the rich, fertile Treasure Valley surrounding the campus are assets. Visitors come from distant places to attend conferences and to enjoy Idaho's skiing, hunting, and fishing areas. People are discovering and enjoying Idaho, the Gem State.

The campus, with its 34 buildings, covers 85 acres in the south part of Nampa. The campus has been carefully planned for maximum use and development.

STUDENTS

NNU attracts students from all over the United States and many foreign countries. Students from all denominations and faiths are welcome to study at NNU. The

The University

university especially invites applications from international students and members of racial and ethnic minorities.

ACCREDITATION

Northwest Nazarene University offers bachelor's and master's degrees. It is fully accredited by the Northwest Association of Schools and of Colleges and Universities, the National Council for the Accreditation of Teacher Education, the Council for Accreditation of Counseling and Related Educational Programs, the National Association of Schools of Music, the Association of Collegiate Business Schools and Programs, the Council on Social Work Education, and the Commission on Collegiate Nursing Education.

The university is a member of the Association of American Colleges, the American Association of Colleges for Teacher Education, the American Council on Education, the Council for Christian Colleges and Universities, the Institute for Holy Land Studies, the National Association of Independent Colleges and Universities, the Northwest Scientific Association, the Association of Western Universities, the Nazarene Association of Colleges for Teacher Education, the Nazarene Association of Schools and Colleges, and the Western Association of Graduate Schools.

STATEMENT OF FAITH

Northwest Nazarene University, theologically, emphasizes the theistic view of God and man as interpreted in the Wesleyan-Arminian tradition. We deem belief in the following brief statements to be sufficient.

We believe:

In one God—the Father, Son, and Holy Spirit.

That the Old Testament and New Testament Scriptures, given by plenary inspiration, contain all truth necessary to faith and Christian living.

That man is born with a fallen nature, and is, therefore, inclined to evil, and that continually.

That the finally impenitent are hopelessly and eternally lost.

That the atonement through Jesus Christ is for the whole human race; and that whosoever repents and believes on the Lord Jesus Christ is justified and regenerated and saved from the dominion of sin.

That believers are to be sanctified wholly, subsequent to regeneration, through faith in the Lord Jesus Christ.

That the Holy Spirit bears witness to the new birth, and also to the entire sanctification of believers.

That our Lord will return, the dead will be raised, and the final judgment will take place.

(Manual, Church of the Nazarene 1997-2001)

MISSION

The essential mission of the university is the development of Christian character within the philosophy and framework of genuine scholarship.

Northwest Nazarene University is a Christian comprehensive university with a liberal arts philosophy of education. NNU is fully committed to an educational process that pursues both intellectual and spiritual development. This pursuit is centered firmly in the Person of Jesus Christ, and is designed to instill a habit of mind that enables each student to become God's creative and redemptive agent in today's world.

The task of the university, as an institution of the Church of the Nazarene, will be to serve the church by providing an educated laity and ministry, loyal to Christ, and by emphasizing the Wesleyan doctrine of perfect love. Its theological program, based upon the doctrines set forth in the Manual of the Church of the Nazarene, will conserve, maintain, advocate, and promulgate the New Testament doctrine of entire sanctification or Christian holiness.

OUTCOMES

Northwest Nazarene University will endeavor to fulfill its mission through the following institutional outcomes:

Christlike Character

NNU students will grow toward Christlikeness: demonstrating ethical behavior, loving and respecting others, offering grace as they have received it, building up the community of Christ., and representing Christ to the world.

Academic Excellence

NNU Students will demonstrate understanding and appreciation of the liberal arts, expertise in a major field of study, and professional growth. Throughout their lives they will endeavor to reach their potential and be transformed by their pursuit of knowledge about god and creation.

Creative Engagement

NNU Students will apply their natural gifts and acquired knowledge to respond creatively to life: producing original works of art, new synthesis of knowledge, novel expression of ideas, and inspired solutions to problems--in the home, the workplace, the church, and the greater community.

Social Responsiveness

NNU Students will be faithful stewards of their knowledge, skills, and resources, and be agents of social justice and divine mercy. Compassionately they will show love for people of all faiths and cultures, and identify with and advocate for those in need--locally and globally.

ACADEMIC OBJECTIVES

NNU is committed to providing its students with an acquaintance with the major fields of knowledge, an effective foundation in and a working grasp of one field, a balanced development of their own powers, and an encouragement to Christian commitment.

To realize its mission to instill in students a habit of mind that prepares them to become God's creative and redemptive agents in today's world, the NNU undergraduate curriculum intends to enable students to:

1. think logically, analytically, and independently;
2. read, write, speak, and listen effectively;
3. understand and use contemporary technology and quantitative operations;
and
4. integrate scholarship, faith, and service.

In addition to these particular objectives, the curricular and extracurricular experiences seek to inculcate the following:

1. an appreciation for the breadth of learning in and the relationship among many fields of knowledge;
2. an exposure to the methodology and depth of knowledge of a specific discipline;
3. an understanding of the content and message of the Bible and its relationship to contemporary life;

4. an understanding of Wesleyan theology and its relationship to academic disciplines as well as other Christian theological systems;
5. an appreciation for one's self as a part of humanity and as a creation of God, and the importance of developing practices that contribute to physical, psychological, social, and spiritual well being; and
6. an understanding of various cultures, including their historic roots, great ideas, scientific investigations, social systems, and aesthetic expressions that will enable students to fulfill the responsibilities of citizenship in a multicultural and democratic society.

PHILOSOPHY OF EDUCATION

NNU is committed to providing its undergraduate students with an acquaintance with the major fields of knowledge through a study in the **liberal arts**, an effective foundation in and a working grasp of one field in a selected **major**, and a balanced development of the wholly-educated person within the context of **Christian commitment**.

Liberal Arts

All undergraduate students are required to take a basic curriculum in the liberal arts, which enables them to pursue an understanding of truth in the study of Scripture, the natural and physical universe, and humanity. In studying this curriculum, students will develop knowledge and appreciation of artistic works as expressions of the human spirit. They will learn to understand, respect, and evaluate the thoughts of others and to express their own thoughts clearly and effectively. Students will also grow to understand and appreciate the human responsibility in God's creation. The course of study is designed to prepare students for informed and responsible citizenry as they face the obligations and challenges of a rapidly changing world. The liberal arts curriculum nurtures all students toward intellectual maturity, moral integrity, and physical well-being while instilling the desire to become lifelong learners.

Major

A major course of study in one of the six schools of the university offers an effective foundation in and a working grasp of one field of knowledge. Each program is designed with specific goals. Sponsoring departments provide direction and encouragement for the achievement of those goals.

The university offers professional and pre-professional studies in several areas. Emphasis is on acquiring depth in a specific area of study and/or professional domain. Integration of separate areas of the liberal arts curriculum is provided through interdisciplinary courses and by applying academic knowledge in co-curricular activities.

Christian Commitment

The university provides for an integrated development of the whole person—an educational and living environment that contributes to emotional stability, a strengthening commitment to Christ, a deepening of the Christian faith, and a life rooted in Christian values. Therefore, the curriculum includes courses which acquaint the student with the Bible, to help him or her arrive at a world-view consonant with both reason and revelation, and to assist in developing a sense of obligation in applying Christian principles to contemporary sociocultural issues. Professors model and discuss the integration of their lives, academic disciplines, and faith both in and out of the classroom.

ACADEMIC ORGANIZATION

Direction and encouragement for the achievement of the academic objectives are provided in programs offered by the six schools of the university: Academic Resources; Arts, Humanities, and Social Sciences; Business; Education, Social Work and Counseling; Health and Science; and Theology and Christian Ministries.

An additional academic unit, the Center for Professional Development, offers continuing education and professional advancement opportunities.

The academic objectives, programs, and course descriptions are described for each school in the subsequent pages of this catalog.

UNIVERSITY LEARNING RESOURCES

The NNU learning resources provide support for the entire academic community and are the John E. Riley Library, Media Services, Information Services, the Academic Support Center, the Office of the Registrar, the Career Center, and the Office of Academic Advising and Assessment.

John E. Riley Library

Vital to the educational and intellectual life of the university, the John E. Riley Library contains circulating and reference collections of almost 120,000 volumes and currently receives 850 periodicals. In addition to books and periodicals, the library has approximately 60,000 volumes in collections of microforms, non-print materials, and state and federal government documents, for which the library is a selective depository. A special collection of works by or about John Wesley is maintained.

The library's web page (<http://www.nnu.edu/academics/schools/libraryservices/>) can be reached from any computer with Internet capability. It provides links to the library's online catalog SAGE, other libraries, and various indexes and databases, some of which include full-text materials. Through its participation in OCLC Inc., an international library network, the library has access to more than 41,000,000 additional books and other library materials in more than 40,000 libraries in 76 countries.

Reciprocal borrowing agreements are in place with Albertson College of Idaho and with Boise State University whereby students may check out a limited number of items from these nearby libraries.

Key to the library's mission is its staff, which provides friendly, professional service. Librarians, staff, and student assistants are available to make use of the library more effective and meaningful. Library services include tours, library instruction, interlibrary loans, and individual research assistance.

The Archives, located in the lower level of the Library, contains many items pertaining to the history of the university. Use of the Archives is by appointment only.

Media Services

Media Services, located in the Wiley Learning Center on the main floor, offers a wide variety of audio/visual services for the campus. Services offered include making photocopies and transparencies, sending and receiving faxes, providing materials to produce signs and instructional materials, laminating, audio duplicating and recording, video duplicating and recording, photography, and other related services. Media Services sells a wide range of supplies including graphic arts and production materials, blank audio and video tapes, 35mm film, computer disks, printer cartridges, and academic software titles. Student ID cards, password replacements, and additional computer print credit may also be purchased at Media Services.

The Media Services facilities include audio/visual viewing rooms, audio and video recording studios, a photographic studio and darkroom, a TV production studio, and an educational classroom and workroom. Media Services maintains a library of video and cassette tape collections. A wide variety of audio/visual equipment and materials is available for classroom instruction, for student assignments, and for use by other members of the campus community. Media Services provides audio/visual equipment for classroom use at no charge and rents audio/visual equipment including camcorders, 35mm cameras, laptop computers, and cell phones to the campus community.

Information Services

Information Services provides both computing and telecommunication resources for the university. These services are provided to all sectors of the campus.

Academic Computing Services

The university computer systems are learning resources for students and faculty in all academic areas. Personal computers, running the Windows 98 and XP operating systems, are distributed throughout the campus. There are six large computer labs located in the Wiley Learning Center, the science building, the Modular Unit, and Elmore Hall. In addition, each of the residence halls, the library, and the Academic

Support Center, are equipped with small computer labs. A small number of Macintosh computers are also available on campus for graphics art majors.

All of the personal computers located in the labs and the offices of faculty and staff, are connected to a Novell network and have access to the Internet, Email, Microsoft Office, Microsoft FrontPage, C++, and many other software packages that are applicable to academic departments on campus.

A network port is available for each room in the residence halls. Students who own compatible computers may connect their computers to the campus network and receive high speed Internet and E-mail connections. Wireless network connections are available throughout the entire campus. Students who live off campus may access the Internet and E-mail services of campus through a dial-in account. Students may use the computer network to fulfill the requirements of courses and for their own enrichment. All full-time students are given computer accounts with a secure password.

Telecommunication Services

Each dormitory room in the residence halls contains a telephone for student use. In addition, public access phones are located in all of the buildings on campus. Students may apply for a Personal Identification Number (PIN) in order to make long distance phone calls, or they may use their own calling cards. Students are assigned a voice mailbox, which allows them to receive messages from on or off campus.

Academic Support Center

The Academic Support Center houses the Study Skills and Writing Center and the NNU Peer Tutoring Service. All NNU students are provided with a variety of academic services free of charge. These services include writing consulting, subject area tutoring by peers, courses for credit (college study methods, reading, mathematics, and computer applications), and academic counseling. The faculty and staff are committed to making student's university experiences the best they can be. The Center is located in the lower level of the Administration building and provides a comfortable, open study area, a small computer center where students can work with writing consultants, and individual study rooms. For a detailed description of the courses offered see course listing under Study Skills.

Office of the Registrar

The Office of the Registrar is responsible for maintaining, storing, and distributing all academic records and petitions. Statistical data for institutional, regional, and national reports and surveys are generated. All data concerning the university catalog and the Course Schedule Bulletin are sent to the Office of the Registrar for verification and organization. The Office of the Registrar exists to serve and to educate faculty, staff, administrators, and students of the academic policies and procedures of NNU in order

to empower them to accomplish their goals, complete assigned tasks, and make informed decisions.

Career Center

The Career Center provides information and assistance to students who wish to assess career goals and investigate career opportunities. In addition, the Career Center facilitates faculty as they assist their students in employment searches. The Career Center will help students write effective resumes, practice interviewing techniques, establish networking contacts through the ASK (Alumni Sharing Knowledge) program, and find career-related part/fulltime or summer employment. The Career Center compiles and sends placement files as a free service for graduating seniors. There are several programs to assist students in their career search that are accessible on computer. These resources include JobDirect.com, Job Track, CIS (Idaho Career Information Services), MOGOE (Multiple Occupational GOE Assessment Program), a current listing of helpful Internet Addresses, and the Career Center Home Page. Career Week activities offer students several career related events including an Etiquette Dinner/Dress for Success Style Show, Career Alumni Day, and a major Career Fair.

Academic Advising and Assessment

The Office of Academic Advising is responsible for oversight of the academic advising and schedules for all freshman students. The Academic Advising Office endeavors to enhance the educational experience of each student through assistance in discovering his or her abilities, interests, and career objectives. All students are encouraged, particularly during their freshman year, to meet with the director of academic advising to review their personal and career goals in relationship to their test scores and academic record. Student progress is monitored each semester and the Academic Advising staff counsels those encountering difficulties.

The university also provides special advising to learning disabled students who wish to identify themselves and provide documentation of their needs. Such students should contact the Learning Disabilities Advisor.

The Office of Assessment administers standardized testing required by NNU as well as correspondence course exams.

WESLEY CENTER FOR APPLIED THEOLOGY

The Wesley Center for Applied Theology enriches and extends the mission of Northwest Nazarene University. Enrichment is fulfilled through the scholarly study of the essential ideals and methods of Wesleyan-Holiness theology. Extension is encouraged through the growth and development of the church, and the application of the essential ideals and methods in personal and social contexts.

The Center administers programs that:

1. promote scholarly study, research, understanding, and appreciation of the Wesleyan tradition and its applications to academic disciplines, campus sectors, churches, and social structures;
2. provide church leaders with information and resources, and equip them to lead in spiritual development that is necessary for healthy church growth; and
3. identify, analyze, and respond to conditions and perspectives that degrade humans, create dependency, and contribute to avoidance of responsible behavior.

ADMISSION AND FINANCIAL AID

ADMISSION

Northwest Nazarene University maintains a policy of equal educational opportunity for all students without regard to sex, race, color, religion, national or ethnic origin, age, or physical and documented learning disabilities, and in administration of its educational and admissions policies, financial affairs, employment programs, student life, and services, or any other university-administered programs.

Northwest Nazarene University offers reasonable accommodations to special-needs students. Inquiries about accommodations for students with physical disabilities should be directed to the Office of Academic Advising, and inquiries concerning accommodations for students with learning disabilities should be directed to the Learning Disabilities Advisor in the Academic Support Center. The student must provide proper documentation before accommodations can be put into place. Any documentation provided is held in the strictest confidence and is used solely for the student's benefit.

PREPARATION

Northwest Nazarene University does not require specific high school courses for admission; however, courses from the following academic disciplines will provide the basis for computing an academic core grade point average (GPA) that will be used for advising purposes. These courses and the indicated recommended number of years provide an excellent preparation for college work.

English (not including speech, drama, journalism)	4 years
Mathematics	3 years*
Science	3 years
History/Social Sciences	3 years
Foreign Language	2 years

*Students planning to select majors in chemistry, engineering, mathematics, or physics will benefit from four years of mathematics.

HOW TO APPLY

1. Write to the Office of Enrollment Services, NNU, 623 Holly Street, Nampa, ID 83686-5897, for information and an application packet, or submit an internet application at www.nnu.edu.

Admission and Financial Aid

2. Complete the application for admission and return it with the \$25 application fee to the Office of Enrollment Services.
3. Request transcripts for all high school, college, and university work to be sent directly to the Office of Enrollment Services.
4. Complete all additional forms included in the application packet and return them to the Office of Enrollment Services as soon as possible.

APPLICATION DEADLINES

Application for admission or readmission to NNU must submit all application materials by the following dates:

1. August ____, for fall semester enrollment.
2. December ____, for spring semester enrollment.
3. _____, for summer session enrollment.

NEW FRESHMEN

Take the American College Test (ACT). All new freshmen are required to take the ACT prior to the start of classes. It is the University's preference that the ACT be taken early in the senior year of high school. Students may apply for admission before taking this test. Students who have taken either the SAT or the Washington Pre-College Test, but not the ACT, must take the ACT before arriving on campus for enrollment.

TRANSFER STUDENTS

Request that an official transcript from all colleges and universities previously attended be sent to the Office of Enrollment Services. Transfer student admission is generally granted to applicants who:

1. Have completed 24 college or university semester credits
2. Have a cumulative GPA of at least 2.0; and are in good academic standing at their previous institution. (Students below the required GPA may be accepted provisionally.)

Failure to report all college and university work attempted could result in revocation of admission. Transfer students may request a "Transfer Guide" to assist them in the transfer process.

Federal financial aid regulations require that students transferring to NNU with less than an Associate of Arts degree will need an official transcript showing proof of high school graduation, or a copy of GED scores, or pass an approved Ability to Benefit (ATB) test.

INTERNATIONAL STUDENTS

Students from countries outside the United States for whom English is not the native language are normally required to take the Test of English as a Foreign Language (TOEFL) administered by the Educational Testing Service, Box 955, Princeton, NJ 08540. Students must receive a minimum score of 500 on the TOEFL to be admitted to the university.

RENEWAL OF APPLICATION

Students that previously applied for admission to NNU but did not enroll should request and complete a renewal application form to reactivate their file.

READMISSION

Any person who interrupts his or her education at Northwest Nazarene University after having once been admitted, whether by withdrawal during a semester or failure to register for a semester, must apply for readmission and be approved before resuming attendance. Failure to register for a summer semester is not considered an interruption. An application for readmission is available upon request from the Office of Enrollment Services. Please see application deadline dates above.

If the student has registered at any other college or university since attending Northwest Nazarene University, a transcript from those institutions must be sent to the Office of Enrollment Services.

ADMISSION CATEGORIES

The Admission Committee must review the application of any student, applying for admission, who is under 17 years of age or whose high school class will not have graduated prior to his or her date of enrollment. Additional information may be requested. Once a student's application is received, he or she must go through a two-step process before enrolling at NNU: clearance for admission and clearance for enrollment. Clearance for admission is broken into two categories.

STANDARD ADMISSION

Standard Admission is granted to students who meet at least two of the following criteria:

1. Graduation from an accredited high school with a grade point average of 2.5 (or above) on a 4.0 scale.
2. A rank in the top 50 percent of the graduating class from an accredited high school.
3. An ACT composite standard score of 18 or above, or an SAT Composite score of 870 or above.

Admission and Financial Aid

Exceptions may be made for students who have been out of high school four or more years or who have completed high school outside of the United States.

PROVISIONAL ADMISSION

Persons who do not meet the requirements for standard admission will be considered for provisional admission and be registered in a restricted program if they fall under one of the following categories:

1. Graduates of accredited senior high schools with less than the required grade point average(s) and students transferring from accredited colleges with less than the required grade point average or students with less than the minimum required ACT or SAT score.
2. Graduates of non-accredited senior high schools.
3. Persons taking the Tests of General Education Development (GED) in lieu of high school graduation. In order to be eligible persons must meet the following requirements:
 - a. a minimum Standard Score Average of 45.0 and a minimum Standard Score on the Writing Skills Test of 45,
 - b. an ACT composite standard score of 18 or above, or an SAT combined score of 870 or above.
 - c. the student's high school class must have graduated prior to his or her date of enrollment at NNU.

Provisional admission is normally granted for one semester and will be reviewed at the end of the student's first semester of enrollment. Failure to meet any of the above criteria may result in denial of acceptance to NNU.

CLEARANCE FOR ENROLLMENT AT NNU

Once a student's application has been accepted, either under standard or provisional application acceptance, the student must be cleared for enrollment at NNU. In order to be cleared for enrollment, a student must:

1. Show proof of high school graduation, or proof of completion of an equivalent course of study,
2. Have an official, final high school and / or college transcript, or an equivalent document, on file at NNU that lists all academic work to date,
3. Have all needed forms, deposits, and applications on file at NNU, including:
 - a. Advanced tuition deposit,
 - b. A completed Housing Application,
 - c. A completed Educational Objectives Questionnaire (freshmen applicants),
 - d. A completed Statement of Faith, and
 - e. All required recommendations

Students not meeting these requirements may be granted a temporary permit of registration upon arrival at NNU for the first semester of enrollment. All discrepancies must be resolved by the end of the first semester the student is enrolled at NNU. If they are not resolved by that time, the student may not be allowed to enroll for the next semester.

ADMISSION AS A HOME-SCHOOLED STUDENT

Northwest Nazarene University welcomes applications from students who have been home-schooled. Home-schooled students seeking admission to NNU are required to submit the same documentation as any other NNU freshman applicant, which includes ACT scores and a high school transcript with all subjects and grades taken by the student.

1. If the home-schooled student has taken any courses through a high school, correspondence school, college or other educational organization, then the school or organization should provide NNU with an official transcript.
2. If the home-schooled student's education is based upon a parent and student designed curriculum, then the parent as the primary instructor should provide the University with the official high school transcript.
3. Home-schooled students who have earned a General Equivalency Diploma (GED) should submit the GED certificate.

ADMISSION TO EXPRESS EDUCATION PROGRAM

Students enrolled in high school and home-schooled students may register for a limited number of courses in the university through the Express Education Program. High school students should contact their counseling office to determine if their high school participates. Home School students should contact the NNU Center for Professional Development directly. Express Education status will only be granted with the support of the high school and parents. Express Education students must be at least 16 years of age.

Any student enrolled in high school may register at NNU for approved courses, whether or not their high school chooses to participate in the Express Education Program.

ADMISSION FOR STUDENTS WHO HAVE BEEN INCARCERATED

An applicant for admission to NNU who is in prison or has recently been in prison will be required to allow a minimum of one year to elapse between the time she/he is released from prison and the time of his/her possible enrollment at NNU.

ADMISSION TO STANDARD STUDENTS

All students having standard classification in the University will be approved for admission to classes by their academic advisors.

Admission and Financial Aid

ADMISSION TO TEMPORARY NON-DEGREE STUDENTS

Unclassified students may be admitted to classes as Temporary Non-Degree students, provided they give evidence of possessing the requisite ability. To apply as a Temporary Non-Degree student she/he must enroll for less than 12 semester credits, not be working on a degree at NNU, and not be applying for federal financial aid. All such students will be required to do the same work as required of regularly classified students, except in the case of those who may be granted permission to take the course on a non-credit basis.

ADMISSION TO NURSING PROGRAM

Prior to admission to pre-nursing status or pre-nursing courses, a student must demonstrate mathematics and English proficiency requirements and have standard (versus provisional) admission to NNU.

Admission to the professional nursing program is based on successful completion of established prerequisites and criteria listed in the Department of Nursing admission policy. These criteria include a pre-nursing admission standardized examination and an interview process. Students completing pre-nursing requirements must apply for and receive admission to the professional major of nursing through the Department of Nursing Admission Committee and according to the admission policy and procedures established by the Department of Nursing.

ADMISSION TO TEACHER EDUCATION

Admission to Teacher Education is granted to students who meet selection and retention criteria. In addition to standard admission requirements, students must apply for and receive admission to the professional program in teacher education.

ENROLLMENT

PREPARATION

1. Submit all required fees and forms as requested to insure that you retain your space in the incoming class (see Advance Tuition Deposits and Fees).
2. Be an active participant as your class schedule is prepared in the Office of Academic Advising. Indicate your acceptance of the schedule when requested.
3. Complete and return all Student Development forms for housing, health care, and related student life issues.

REGISTRATION

Registration dates are found on the official college calendar published in this catalog and online at www.nnu.edu/catalog. All students are expected to be present and complete registration on the days scheduled for this purpose.

Instructions for registration will be furnished at the time of registration. Students are not enrolled in courses until all registration materials are completed and approved by advisors and/or other authorized persons. Satisfactory financial arrangements must be completed and approved in the Business Office.

EXPENSES AND FINANCIAL AID

EXPENSES

Student charges are set by the Board of Trustees as part of the consideration of the projected costs of operation. In addition to revenue from student charges, a major supplement to the cost of the student's education comes from donations from Churches of the Nazarene, business, and individual sources. The actual costs of operation are affected by some factors over which the institution has little or no control. The charges quoted in this catalog and its supplements are subject to change after appropriate notice.

CHARGES

Tuition, fees, room and board charges are increased annually by the approximate amount of increases in the cost of living, plus a reasonable amount for specific planned improvements in the educational opportunities to be provided during the year. **Some courses also require a fee for specialized instructions, such as private lessons, transportation, equipment, and supplies. These charges are detailed in the annual supplement ("Calendar and University Costs"), which become a part of the catalog.**

PAYMENT

Payment and/or satisfactory financial arrangement of the balance due on a student's account must be completed by August 15, 2003 for fall semester, and January 5, 2004 for spring semester. In determining the balance due, financial aid awarded for the semester will be deducted from the total semester charges. A late payment fee of \$100 will be assessed if payment and/or satisfactory financial arrangement has not been completed by August 28, 2003 for fall semester and January 15, 2004 for spring semester. Official transcripts of student course work are granted only after the student's account is paid in full.

Many NNU students choose to participate in an annual payment plan. For information on the payment plan, please contact the Business Office for details. Participation in a payment plan is to be completed by August 15, 2003 for fall semester and January 5, 2004 for spring semester (due dates referenced above). Two installment plans are available; a 12-month plan beginning June 5 and ending May 5, or a 10-month plan beginning August 5 and ending May 5.

Admission and Financial Aid

ADVANCED DEPOSITS AND FEES

A New Student Advanced Deposit of \$250 is to be paid by all new students by May 15 for students applying for fall semester and by November 15 for students applying for spring semester. Receipt of the deposit is required before the student is allowed to begin registration and receive housing arrangements. Advanced work toward program scheduling cannot be done until the advanced deposit is received. In addition, students applying to live in campus housing (residence hall or apartment) will be assigned room reservations on a priority based on the date the deposit is received. Of this deposit, \$50 is held as a contingency deposit for all students, and is refunded to the student upon graduation or earlier withdrawal from the university if the student has paid all fines and charges. The balance of \$200 is applied to the new student's account at the time of enrollment.

Refunds shall be made according to the following schedule:

<u>Date of Cancellation for fall semester</u>	<u>Amount of Refund</u>
By June 15	Full Refund
By July 15	50% Refund
By July 16 and thereafter	No Refund
<u>Date of Cancellation for spring semester</u>	<u>Amount of Refund</u>
By November 15	Full Refund
By December 15	50% Refund
By December 16 and thereafter	No Refund

Books and Supplies average about \$360 per semester and are available for purchase in the university bookstore.

Incidental charges may be expected at registration time to cover such items as the yearbook picture fee, residence hall key deposit, and refrigerator rental, microwave rental, etc.

REFUND OF CHARGES FOR STUDENTS WHO WITHDRAW

All students withdrawing from NNU must complete the "Request for Withdrawal from School" form available from the Office of Academic Advising.

Exceptions to the refund schedule listed below will be considered for cases of medical or other hardship on a case-by-case basis upon request of the student and submission of appropriate documentation.

Tuition, Fees, Room and Board: Students who withdraw from school prior to or on the last day to add courses for the semester shall receive a refund of 100% of tuition and fees charged. Students withdrawing after the last day to add courses for the semester shall receive a prorated refund of tuition and fees for the first 60% of the semester. Room and board charges for the semester are refunded on a prorated basis. The withdrawal date is defined as the earlier of: (1) the date that the student began the withdrawal process or officially notified NNU of intent to withdraw, or (2) for those students who leave school without notifying an appropriate NNU official, (a) the midpoint of the semester, or (b) the last day of documented “academic-related activity”. The Director of Academic Advising determines the official date of withdrawal.

There are no refunds for incomplete independent study or correspondence courses. There are generally no refunds for enrolled students withdrawing solely from the dorm after the last day to add courses. There are prorated refunds for withdrawing solely from the board plan after the start of the semester.

Refund Distribution. Students who withdraw from NNU and have received federal financial aid may be required to return all or part of that aid based on the percent of the semester that the student is no longer enrolled. When a refund to federal programs is required, following is the refund distribution:

1. Unsubsidized Federal Stafford Loan
2. Subsidized Federal Stafford Loan
3. Federal Perkins Loan
4. Federal PLUS Loan
5. Federal Pell Grant
6. Federal Supplemental Educational Opportunity Grant (FSEOG)
7. Leveraging Education Assistance Partnership Grants (LEAP)
8. Other Title IV Aid Programs
9. Other Federal Sources of Aid
10. Other State, Private or Institutional Aid
11. Parents or other third party, and then the Student

No refund is made to the student when all charges have been met by federal or institutional aid, or when the amount of refund exceeds cash payment made by the student.

Admission and Financial Aid

Refunds to NNU's institutional aid programs are based on the tuition and fees withdrawal rate; i.e., if one-half tuition and fees are refunded, one-half of any institutional aid will be refunded to institutional programs.

Repayment of Unearned Aid. Students who receive federal financial aid and withdraw from NNU may be required to repay the appropriate program a percentage of their unearned aid. The responsibility to repay unearned aid is shared by NNU and the student in proportion to the aid each is assumed to possess. NNU's share is the lesser of:

1. The total amount of unearned aid,
2. NNU's charges multiplied times the percentage of aid that was unearned, and,
3. NNU's share is allocated among the Title IV programs in an order specified by law.

The student's share is the difference between the total unearned aid and NNU's share. After the student's share is fully allocated among any of the Title IV loan programs, any amount owed to a federal grant program is reduced by half.

Student Financial Aid

In an effort to assist worthy students in their pursuit of a liberal arts education, NNU is committed to providing scholarships, awards, grants, and allowances. Each year thousands of dollars are provided for this purpose. Some of the funds come from endowed scholarships, university funds, and federal funds (Title IV aid).

The awarding of financial assistance to students is primarily for the purpose of:

1. Recognition of achievements,
2. Assisting competent students to acquire a college education,
3. The recruiting and retaining of students.

The University believes that the following objectives are consistent with this philosophy:

1. To reward students for excellence in academic performance;
2. To reward students for achievements that may be other than academic;
3. To aid students for whom pursuit of a college education is an unusual financial hardship.

Financial stipends, narrowly defined, should convey commitment to accomplishment by the University. Those who receive such funding are a comment on the University's own image of its purpose.

Application for Admission and for Financial Aid is a combined process at NNU. Awards of aid are reserved for those students who have applied for admission. Priority in the awarding of aid from federally funded programs will be given to completed applications (the NNU Application for Admission, Scholarships, and Financial Aid, and the Free Application for Federal Student Aid) received by March 1. All aid, whether it be from NNU or federal funds, must be applied for each year. Returning students will need to secure the proper application for scholarships and allowances from the Financial Aid Office, Northwest Nazarene University, 623 Holly Street, Nampa, ID 83686-5897. All institutional scholarships, grants, awards and allowances are considered when packaging a student's minimum Financial Aid award offer.

Demonstration of Need for Aid - Northwest Nazarene University uses the Free Application for Federal Student Aid (FAFSA) to determine a student's eligibility for federal aid. The FAFSA is the document all colleges must use to determine the family's ability to pay and resulting need. Students should submit a copy of the FAFSA to the federal processor designating Northwest Nazarene University to receive the analysis. NNU's school code is 001624. The FAFSA may be obtained from NNU or from most high school counselors or online at www.fafsa.ed.gov and should be filed in conjunction with the NNU Application for Admission, Scholarships, and Financial Aid.

Payment of Financial Aid - All financial aid is disbursed to students by crediting one-half of the year's total award to the student's account each semester.

Requirements for Financial Aid -To receive any financial assistance, students must be maintaining satisfactory academic progress toward a degree. The Standard of Satisfactory Academic Progress for Financial Aid is mailed to each student with the offer of financial aid each year. It is also available through the Financial Aid Office.

In order to receive federal aid funds, a student must not be in default or delinquent on a previous federal student loan.

Restriction - The administration has set a maximum amount in aid funds that may be received by a student. In an exceptional case in which the maximum is exceeded the university may reduce these benefits.

INSTITUTIONAL SCHOLARSHIPS

Three types of scholarships are available to students—scholarships funded by university, scholarships funded by the earnings of money donated to the university endowment fund, and scholarships provided by donors. A separate listing of scholarships available at NNU may be requested by contacting the Financial Aid Office.

All first-time freshmen at NNU are automatically considered for all scholarships that they may be eligible to receive by completing the NNU application for Admission,

Admission and Financial Aid

Scholarships, and Financial Aid. If any additional application forms are required, they are generated from the filing of the Admission, Scholarships and Financial Aid Application. Most endowed and departmental scholarships are awarded to students who meet the required criteria after one year of attendance at NNU.

Requirements - All scholarship recipients are to be enrolled full-time, have a minimum cumulative grade point average of 2.00 (or higher, if so indicated), and meet any other eligibility requirements detailed in the Scholarship/Financial Aid Manual.

Restrictions - The University reserves the right to cancel or alter these scholarships in the case of misconduct or in the case of any conduct, which, in the judgment of the university, makes it necessary.

AWARDS

The term “award” refers to a stipend which is given on a basis other than performance.

Trustee Award. A full-time student whose local church awards funds for his or her use in paying university costs will be eligible to receive matching funds (match is based on the first \$250 award received from the church). This applies to Nazarene and non-Nazarene churches located in the Northwest Education Region. NNU will match a church award until work is completed on the first bachelor’s degree.

NYI Awards. NNU will match cash awards given by District Nazarene Youth International organizations of the Northwest Education Region for music or activity competition at the district level. The maximum amount that may be matched is \$500.

Service Club Award. NNU will match a cash award up to \$250 from a participating Nampa, Idaho, service club.

ALLOWANCES

Eligibility for university allowances generally requires a student to be enrolled full time.

Family. During any semester in which three or more unmarried students from one family are enrolled, each student is eligible for this allowance. The Family Allowance may not be awarded if other forms of institutional aid cover full tuition.

Foreign Student Allowance. Full-time undergraduate students who are not eligible for federal aid (this includes Canadians) and dependents of full-time missionaries under appointment are eligible for this allowance.

Grad-Back Tuition. A 50 percent reduction in tuition is available for students taking undergraduate courses who have completed a baccalaureate degree at Northwest Nazarene University.

Nazarene Tuition Remission Allowance. Dependents of full-time faculty and first-line administrators at U.S. and Canada Nazarene colleges/universities or Nazarene Theological Seminary are eligible and should apply for up to full tuition allowance. The requirements as described by the General Church Department of Education are in force for this allowance. Applicants must provide a signed Tuition Remission Recommendation Form from the institution where the parent is employed.

Professional. Those eligible for this allowance include full-time Christian workers, or their dependents, who are serving within the Northwest Education Region (or outside of any other Nazarene education region) as pastors, assistant pastors, evangelists, ministers of Christian Education, or ministers of music. The definition of “dependents” will be consistent with the U.S. Department of Education definition used when awarding federal funds. Full-time missionaries and military chaplains on active duty and their dependents are also entitled to this allowance.

Full-time Christian workers, both defined in terms of their service and location by the above paragraph, may receive a prorated professional allowance for less than full-time enrollment while attending Northwest Nazarene University. This allowance would be granted to those full-time Christian workers who are pursuing course work leading to their first baccalaureate degree.

Senior Citizens. Students who are sixty years of age and older may enroll for non-credit courses at no charge. Those who take course work for credit will receive a one-half tuition allowance.

INSTITUTIONAL GRANTS

Ethnic Minority Grant. For citizens or permanent residents of the U.S. and Canada who are members of an ethnic minority. Applicants must demonstrate need by filing the Free Application for Federal Student Aid.

Montgomery Missionary Dependents Grant. This grant is in memory of Kenneth Montgomery, and funds are provided by those who are especially interested in supporting children of missionaries.

Phelps Book Grant (Endowed). Mr. and Mrs. Melvin Phelps established the Phelps Endowed Book Fund for the purpose of helping students in the purchase of books and supplies and encouraging them in their college careers.

FEDERAL GRANTS

The United States government through the Department of Education has made funds available for three Federal grant programs. Available funds are allocated on the basis of greatest financial need to applicants filing by the designated dates. Because such need is a confidential matter between the family and the university, public announcement of the amount of grant awards is not made.

Admission and Financial Aid

Federal Pell Grant. All undergraduate students are urged to apply for the Pell Grant. Eligibility is determined by filing the Free Application for Federal Student Aid (FAFSA). The U.S. Department of Education will mail the student a Student Aid Report (SAR) approximately 3 to 4 weeks after filing.

Leveraging Educational Assistance Partnership Program (LEAP) and Federal Supplemental Educational Opportunity Grant (SEOG). These grants are awarded to students with financial need as evidenced in the filing of the Free Application for Federal Student Aid.

FEDERAL LOANS

The Federal Perkins and Subsidized Stafford loans are awarded on the basis of financial need and have no interest accruing during the student's period of enrollment.

Federal Perkins Loans. These loans are given only to students with definite financial need, plus the stipulations noted above. The federal government establishes an annual level of lending which results in a limited amount of loan funds being available. The rate of interest during the repayment period is 5% simple interest. The University is responsible for collection of these loans. Repayment begins 9 months after graduation or discontinuance of at least half-time enrollment. The Federal Perkins Loan has provisions for cancellation and deferment.

Subsidized Federal Stafford Loans. These are low-interest loans made by a lender such as a bank, credit union, or savings and loan to help pay for educational expenses. Applications are available through the financial aid office or from the lender. Repayment begins 6 months after graduation or discontinuance of at least half-time enrollment.

Unsubsidized Federal Stafford Loans. Students who do not qualify for the Subsidized Stafford Loan may apply for the Unsubsidized Stafford Loan. The difference being that the government does not pay the interest to your lender on this loan while you are in school. Payments of your principle and interest may be deferred while you are enrolled at least half time.

OTHER SOURCES OF FINANCIAL AID

The Bureau of Indian Affairs. The U.S. Department of Interior provides grants, loans, and summer work to American Indian students to enable them to continue their education. Students who are of one-fourth or more Indian blood are eligible. They must demonstrate high scholastic ability and need financial assistance. More information may be obtained by contacting the area director or agency office having a record of your tribal membership.

Vocational Rehabilitation. Assistance is available to residents of many states who have a disability that is a handicap to employment. Further information may be obtained by contacting the nearest State Vocational Rehabilitation office.

Dependent's Educational Assistance Program. This program provides educational opportunities for many children of veterans who died or were permanently and totally disabled in or as a result of service in the Armed Forces of the United States. Widows and wives may also qualify if the veteran husband is deceased or permanently and totally disabled from service-connected causes. For latest benefit figures and further information, contact the nearest local or regional Veterans Administration office.

Army Reserve Officer Training Corps (ROTC). Students attending NNU are eligible to apply for Army ROTC two and three-year scholarships. These scholarships pay for tuition, textbooks, laboratory fees, and other purely academic expenses for each year that the scholarship is held. Scholarship cadets may also receive subsistence allowance (tax free) of up to \$1,500 each school year that the scholarship is in effect.

PART-TIME EMPLOYMENT

Campus Employment. Part-time employment is available to students on campus in the areas of food service, library, custodial, and instructional and administrative assistants to various campus personnel and departments. A number of these positions of employment are provided by Federal College Work-Study program funds. The average workload consists of ten hours per week. To view current openings go to www.nnu.edu and click on "Student Resources" and then "Career Center".

Idaho State Work Study Program. Students working off campus in jobs that are closely related to their major field of study who show "need" may be eligible to participate in this program.

Community Employment. Numerous students secure their own arrangements for off-campus employment in the community; however, students may receive placement help from the university for community employment by contacting the Career Planning and Placement Office.

FINANCIAL AID FOR STUDY ABROAD OPPORTUNITIES

Students considering Study Abroad Programs may be eligible to receive federal financial aid to help pay educational related expenses. The following conditions are required to receive federal financial aid:

1. Student must be admitted to a program leading to a degree.
2. Student must be making satisfactory academic progress.
3. Student must enroll in a program of study abroad that is approved for credit at NNU.

Admission and Financial Aid

4. Student must be eligible to receive federal financial aid.
5. Student must complete a Free Application for Federal Student Aid (FAFSA).

For additional information the Financial Aid Office or Registrar's Office may be contacted.

STUDENT RIGHTS AND RESPONSIBILITIES

As recipients of federal student aid, students have certain rights and responsibilities. Knowing what these are will put students in a better position to make decisions about their educational goals and the best means to achieve them. All students have the right to know:

1. The cost of attending a particular school, and what the school's policy is on refunds to students who withdraw.
2. What financial assistance is available including information on all federal, state, local, private, and institutional financial aid programs.
3. Who the school's financial aid personnel are, where they're located, and how to contact them for information.
4. What the procedure and deadlines are for submitting applications for each available financial aid program.
5. How the school selects financial aid recipients.
6. How the school determines financial need.
7. How much of their financial need, as determined by the school, has been met.
8. How and when financial aid will be received.
9. The interest rate on any student loan, the total amount that must be repaid, length of the re-payment period, when the payment begins, and what cancellation or deferment provisions apply.
10. If students are offered a Federal College Work-Study job—what kind of job it is, what hours they must work, what their duties will be, what the rate of pay will be, and how and when they will be paid.
11. The school's policy in reconsidering student's aid package if they believe a mistake has been made, or if their enrollment or financial circumstances have changed.
12. How the school determines whether students are making satisfactory academic progress, and what happens if they are not.

STUDENT RESPONSIBILITIES

All students must:

1. Pay special attention to the application for student financial aid, complete it accurately, and submit it on time to the processor. Errors may delay or prevent a student from receiving aid.

2. Know and comply with all deadlines for applying or re-applying for aid.
3. Provide all documentation, corrections, and/or new information requested by the Enrollment Services Office.
4. Notify the university of any information that has changed since applying for financial aid.
5. Read, understand, and keep copies of signed documents.
6. Repay any student loans. When they sign a promissory note, students are agreeing to repay their loan.
7. Participate in both an entrance and exit interview at the school if they have a Federal Perkins Loan or Federal Stafford Loan.
8. Notify the school of a change in their name, address, or attendance status. If they have a Federal Stafford Loan, they must also notify their lender of these changes.
9. Satisfactorily perform the work agreed upon in a Federal College Work-Study job.

FEE PAGE**TUITION**

	Cost Per Semester	Cost Per Year
12-19 Undergraduate Semester Credits	\$7,665	\$15,330
(Less than 12 or more than 19 — \$665 per semester credit)		
Post-Baccalaureate/NNU Graduate \$333 per semester credit		
Post-Baccalaureate/non-NNU Graduate \$665 per semester credit		
Summer school \$295 per credit		

FEES

	Cost per Semester	Cost Per Year
Undergraduate enrolled in 12 or more credits	\$295	\$590

Health clinic and accident insurance	\$ 75
Student Government Association	\$ 85
Technology	\$105
Registration	\$ 5
P.E. Building	\$ 25

Undergraduate enrolled for 6-11 credits

Student Government Association	\$ 45
Technology	\$ 10 per credit up to maximum of \$105
Registration	\$ 5
P.E. Building	\$ 10

Undergraduate enrolled for 1-5 credits

Technology	\$ 10 per credit up to maximum of \$50
Registration	\$ 5

Special Fees

University credit by exam (per exam)	\$ 60
Non-credit fee per course credit	\$ 35
Undergraduate graduation fee	\$ 50
Senior citizens, 60 or older, may enroll in classes for non-credit at no charge; classes taken for credit are \$333 per semester credit.	

Some courses have an activity/usage fee. Check course schedule for details.

BOARD AND ROOM

	Cost Per Semester	Cost Per Year
Standard Meal Plan and Single Student in Shared Dorm Room	\$ 2,220	\$ 4,440

TOTALS

\$10,180	\$20,360
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UNDERGRADUATE DEGREE REQUIREMENTS

Northwest Nazarene University offers the Bachelor of Arts, the Bachelor of Science, and the Bachelor of Science in Applied Studies degrees. Majors are offered in 45 fields of study. To qualify for a bachelor's degree at NNU, the student must satisfy the eleven (11) requirements described below. Faculty and staff members at the university advise students concerning progress toward graduation. However, the student is responsible for meeting all graduation requirements.

1. **TOTAL CREDITS.** The student must complete a minimum of 124 semester credits.
2. **UPPER-DIVISION CREDITS.** The student must complete at least 43 semester credits in courses numbered above 299.
3. **COMPETENCY IN COMMUNICATION AND LANGUAGE.** All students must demonstrate competency in communication and language skills in the English language.
4. **QUALITY OF GRADES.** Either grades must average C (2.000) or better; or all grades C (2.000) or better must be earned in 124 semester credits which meet the basic skills, general, and major requirements. A grade of C- (1.700) or better must be earned in all courses which apply toward the major with the exception that two supplemental courses with a grade of D (1.000 to 1.300) may be accepted. Some majors have higher GPA requirements. See individual program descriptions for details.
5. **RESIDENCE.** Each student must spend a minimum of one year, full-time standing, in residence. If only one year is spent at NNU, it must be the senior year and must include a minimum of 8 semester credits in the major.
6. **GENERAL EDUCATION PROGRAM.** The student must complete the standard or honors program of General Education as described below.
7. **MAJOR FIELD OF STUDY.** In addition to the various areas of scholarship represented in the general education group requirements, a baccalaureate degree requires a more detailed acquaintance with the advanced materials and methods of a particular field. In this field of concentration the student is expected to attain an elementary degree of mastery and a background for further reading and study, formal or informal. In many cases this major study has professional or vocational value. A listing of the major fields of study may be found at the end of this chapter.
8. **MATH PROFICIENCY.** A student with an ACT mathematics score of less than 21 or an SAT mathematics score of less than 550 is required to take the COMPASS placement test. The student must achieve a level of proficiency in

Degree Requirements

- mathematics as measured by the COMPASS Mathematics Exam which indicates the student has reached a COMPASS score equivalent to 21 on the ACT. This should be completed by the end of the second year of residence.
9. **COMPREHENSIVE EXAM.** The Collegiate Assessment of Academic Proficiency (CAAP) is an assessment of student knowledge taken during the senior year. The CAAP test scores are compared to the freshman ACT scores. This comparative study, organized by and administered under the direction of the American College Testing Program, is aimed at assisting colleges and universities in efforts to improve general education and helping students to persist to graduation with the knowledge and skills important to functioning effectively in society.
 10. **APPLICATION FOR GRADUATION.** Candidates for a degree must submit an application and have the application approved by the administrator(s) of the program. The application should be placed on file with the registrar not later than registration for second semester if the student expects to graduate at the next spring commencement.
 11. **FAVORABLE VOTE OF FACULTY.** The names of students nearing completion of their programs will be presented to the faculty of the university for review. A favorable two-thirds vote of the faculty is required before an NNU degree is granted.

THE STANDARD GENERAL EDUCATION PROGRAM

According to our Mission Statement, Northwest Nazarene University offers an undergraduate curriculum that “is designed to instill a habit of mind that enables each student to become God’s creative and redemptive agent in today’s world.” This curriculum provides both depth (the student’s major field of study) and breadth (the General Education Program) to nurture our student’s highest intellectual, physical, and spiritual development.

The General Education Program is the foundation of all undergraduate education at Northwest Nazarene University. It purposely expresses through curriculum the mission of the university as a Christian liberal arts institution in the Wesleyan heritage. The objective of the General Education Program is to provide a common experience for the personal and intellectual growth of each student. Students are brought into contact with the great persons, ideas, movements, and traditions of humanity and the Christian faith. The curriculum is intellectually challenging and designed to set the tone for all courses at the university.

The General Education Program is a total package of learning experiences, each part of which is essential and contributes to the whole development of each student. Normally, the courses in the program are distributed over the entire college experience with specific courses taken at different maturation levels. All the departments of the University build on the General Education foundation by acknowledging its

importance and drawing from its rich resources. The faculty has created this General Education Program and enthusiastically supports its essential importance at Northwest Nazarene University.

I. Abilities of the Liberally Educated

Students will develop abilities that enable them to function well at the university and after graduation. Students will be able to:

- A. Think logically, analytically, creatively, and independently.
- B. Read, write, speak, and listen effectively.
- C. Understand and use quantitative operations in problem solving.
- D. Understand and use contemporary technology.
- E. Practice good patterns of physical, psychological, social, and spiritual well being.
- F. Understand and appreciate a Christian liberal arts education.

II. Contextual Disciplines of the Liberally Educated

Students will develop a world view informed by Christian perspectives that provides the context for further studies in the liberal arts. Such a viewpoint requires that students gain:

- A. An understanding of the advancement of civilization.
- B. An understanding of the human condition.
- C. An understanding of the content and message of the Bible.
- D. An understanding of the major doctrines of the Christian faith from a Wesleyan perspective.
- E. A philosophy of life that integrates one's Christian faith with one's understanding of the world.

III. Explorations of the Liberally Educated

Students will explore the world of knowledge as described by the many disciplines of the university. Such explorations will lead to:

- A. An understanding of the natural world.
- B. An understanding of human expression through the arts.
- C. An understanding of human expression through literature
- D. An understanding of one's individual identity as part of the complex of all human activity and relationship.

To complete the General Education Program at Northwest Nazarene University, the student must take 54 semester credits of courses distributed in three categories. The categories with the number of credits required in each are:

I. Category I - Abilities (13 credits)

All courses in this category must be passed with a grade of C- (1.750) or higher.

Degree Requirements

EN 102. English Composition (3 credits)

To be completed by end of first year of residence

EN 202. Research Writing and Critical Thinking (3 credits)

To be completed by end of second year of residence

CO 121. Fundamentals of Speech; or,

CO 321. Advanced Public Speaking (3 credits)

KI 100. Fundamentals of Wellness (1 credit)

To be completed during first year of residence

KI activity (KI 102 or KI 103 courses) - Two different courses (2 credits)
One must be a heart healthy activity.

Mathematics Proficiency (0)

A student with an ACT mathematics score of less than 21 or an SAT mathematics score of less than 550 is required to take the COMPASS placement test. The student must achieve a level of proficiency in mathematics as measured by the compass Mathematics Exam which indicates the student has reached a COMPASS score equivalent to 21 on the ACT. This should be completed by the end of the second year of residence.

ST 111. Freshman Seminar (1 credit)

To be completed by the end of the first semester in residence for first time college students.

II. Contextual Disciplines (16 credits)

BL 111. Introduction to Biblical Studies (4 credits)

To be completed during first year of residence

TH 211. Introduction to Christian Theology (4 credits)

To be completed by end of second year of residence

Students transferring to Northwest Nazarene University as juniors must complete 6-8 semester credits in Biblical and Religious Studies which will include TH 211 and a BL or TH elective. Students transferring as seniors must complete only TH 211.

Philosophy elective (2-3 credits)

History Electives (one U. S. and one non-U. S.) (6 credits)

III. **Explorations (25 credits)**

Upper-division Bible Literature or Theology (2-3 credits)

Humanities Electives (one course must be taken from each area (9 credits))

Art History/Music Literature Elective

Art History: AR 101, 119, 309, 329, 339, 349

Music Literature: MU 101, 326, 327

Literature Elective

Literature: EN 221, 222, 231, 232, 241, 242, 243, 321, 325, 326, 331, 332, 335, 336, 341, 342, 343, 351, 352, 353, 354, 374, 427, 432, 433, 434.

Humanities Elective

Art History, Literature, Music Literature, Philosophy, an intermediate modern or Biblical language, as well as the following courses: BL 440, CO 131, TH 356, TH 357.

Science Electives with lab (8 credits)

Science (BI, CM, NS, PH prefixed courses)

Social Science (6 credits)

Select two areas from the following:

Economics (EC prefixed courses)

Geography (GE prefixed courses)

Political Science (PS prefixed courses)

Psychology (PY prefixed courses)

Sociology (SO prefixed courses)

THE HONORS GENERAL EDUCATION PROGRAM

(Open only to students in the honors program)

To complete the honors General Education Program at Northwest Nazarene University, the student must complete HU 250, 251, 252, and 253, and 44-47 semester credits of courses distributed in three categories. The categories with the number of credits required in each are:

I. **Category I - Abilities (7 credits)**

All courses in this category must be passed with a grade of C- (1.750) or higher.

EN 202. Research Writing and Critical Thinking (3 credits)

To be completed by end of second year of residence

Degree Requirements

KI 100. Fundamentals of Wellness (1 credit)

To be completed during first year of residence

KI activity (KI 102 or KI 103 courses) - **Two different courses (2 credits)**
One must be a heart healthy activity.

Mathematics Proficiency (0)

A student with an ACT mathematics score of less than 21 or an SAT mathematics score of less than 550 is required to take the COMPASS placement test. The student must achieve a level of proficiency in mathematics as measured by the COMPASS Mathematics Exam which indicates the student has reached a COMPASS score equivalent to 21 on the ACT. This should be completed by the end of the second year of residence.

ST 111. Freshman Seminar (1 credit)

To be completed by the end of the

First semester in residence for first time college students.

II. Contextual Disciplines (12-15 credits)

BL 111. Introduction to Biblical Studies (4)

To be completed during first year of residence

TH 211. Introduction to Christian Theology (4 credits)

To be completed by end of second year of residence

Students transferring to Northwest Nazarene University as juniors must complete 6-8 semester credits of Biblical and Religious Studies which will include TH 211 and a BL or TH elective. Students transferring as seniors must complete only TH 221.

Philosophy elective (2-3 credits)

History Elective (one U. S. or one non-U. S.) (2-4 credits)

Note: If a student chooses to use Humanities credit to meet the philosophy requirement, one U. S. and one non-U. S. history course must be taken for a total of 6 credits)

III. Explorations (25 credits)

Upper-division Bible Literature or Theology (2-3 credits)

Humanities Electives (9 credits) One course must be taken from each area.

Art History/Music Literature Elective

Art History: AR 101, 119, 309, 329, 339, 349

Music Literature: MU 101, 326, 327

Literature Elective

Literature: EN 221, 222, 231, 232, 241, 242, 243, 321, 325, 326, 331, 332, 335, 336, 341, 342, 343, 351, 352, 353, 354, 374, 427, 432, 433, 434.

Humanities Elective

Art History, Literature, Music Literature, Philosophy, an intermediate modern or Biblical language, as well as the following courses: BL 440, CO 131, TH 356, TH 357.

Science Electives with one lab requirement (8 credits)

Science (BI, CM, NS, PH prefixed courses)

Social Science (6 credits)

Select two areas from the following:

- Economics (EC prefixed courses)
- Geography (GE prefixed courses)
- Political Science (PS prefixed courses)
- Psychology (PY prefixed courses)
- Sociology (SO prefixed courses)

Honors Program Note: Completion of the year-long Honors Program satisfies the following Standard General Education Requirements, which are not listed above: EN 102 English Composition, CO 121 Fundamentals of Speech, and a history or philosophy elective. The student who completes the year-long program may choose to have either the history or philosophy elective met; however, the default will be history.

Degree Requirements

MAJORS OFFERED

Northwest Nazarene University offers undergraduate degrees in 45 majors. The degree requirements are given in this catalog in the section describing the sponsoring department. The majors offered are:

Accounting and Finance	Mathematics-Education
Applied Studies	Missions
Art	Music
Art-Education	Music-Education
Biology	Music Ministry
Biology/Chemistry	Nursing
Biology-Education	Philosophy
Business Administration	Philosophy and Religion
Chemistry	Physical Science-Education
Chemistry-Education	Physics
Computer Science	Political Science
Elementary Education	Pre-Medical Technology
Engineering Physics	Pre-Physical Therapy
English	Psychology
English-Education	Public Communication
History	Recreation and Sport Management
History-Education	Religion
International Studies	Religious Studies
Kinesiology-Education	Social Science-Education
Liberal Studies	Social Service Ministries
Media Studies	Social Work
Mathematics	Spanish
Mathematics and Natural Science	Spanish Education

Within several of these majors, various specializations are available. For example, the art major includes an emphasis in ceramic/sculpture, drawing/painting, or graphics; and the public communication major includes a variety of course **concentrations**, some of which are theater, media, and business. Students may find these opportunities listed in the major description sections of this catalog.

Individualized Major: For students whose educational objectives cannot be met by one of the majors given above, the individualized major gives opportunity for students to design a program of study. Each individualized major must be approved by the appropriate School Curriculum Committee. For additional information see the Special Programs chapter.

MINORS

An academic minor represents a well-defined set of courses identifying a secondary area of expertise. If a student elects to earn an academic minor, it must consist of a minimum of 15 to a maximum of 28 credits. Fifty percent of the course credits must be taken at NNU, and fifty percent must be upper-division credits.

Students may declare a minor on a declaration form obtained from the Office of the Registrar. Detailed information concerning specific requirements for each minor can be found in the respective departmental listing in the Catalog.

The minors offered are:

Applied Ethics	History
Art	Literature
Bible	Mathematics
Biblical Languages	Missions
Business Administration	Music
Chemistry	Music Ministry
Children's Ministry	Philosophy
Christian Education	Political Science
Christian Service	Professional Writing
Church Administration	Psychology
Compassionate Ministry	Social Welfare
Computer Science	Spanish
Criminal Justice	Speech Communication
Drama	Theology
Environmental Science	Worship Leadership
Film Studies	Youth Ministry
History of Christianity	



ACADEMIC PERSPECTIVES

Undergraduate Academic Regulations and Information

ACADEMIC LOAD

Academic load refers to the total number of semester credits for which the student is registered during any one semester.

Twelve semester credits constitute a full academic load while 16 semester credits constitute an average academic load. Students may enroll for 19 credits without special permission. Students with a cumulative grade point average of 3.40 or above may enroll for 20 or 21 credits through a petition process with the approval of the Registrar.

ACADEMIC PROBATION AND DISMISSAL

A student with an unsatisfactory academic record will be notified, and may be placed on probation or dismissed. Notification, at mid-semester, serves to caution a student that his or her record for one or more courses is below the grade of “C-.” If a student’s grade-point average is below standard (1.750 freshman, 2.000 sophomore or above) for the semester, he or she will be placed on academic probation, i.e., the following semester the student may be limited to 8 semester credits. Failure to earn a semester grade point in compliance with the standard during the semester following placement on probation may result in dismissal.

Any student who repeatedly fails to make satisfactory progress toward his or her educational objective, due to substandard performance or course withdrawal, shall be so informed and may be denied the privilege of continuing enrollment when such action seems advisable.

Dishonesty, such as cheating, plagiarism, or knowingly furnishing false academic information, is a serious offense, which strikes at the very heart of Northwest Nazarene University’s reason for existence as a Christian liberal arts institution. Such conduct, an affront to fellow students and the faculty, **will not be tolerated**. Consequences of dishonesty may include suspension from the university.

ACADEMIC RENEWAL

Northwest Nazarene University provides academic renewal through the “All-C Grades or Better” option. Under this option only courses with a grade of C- (1.7) or better will be used in determining degree qualification and grade-point average calculation.

Students wishing to graduate on the “All-C-grades-or-better” option must have this plan approved by the Registrar.

ADDITIONAL BACHELOR'S DEGREE

Northwest Nazarene University offers three different undergraduate degrees: Bachelor of Arts, Bachelor of Science, and Bachelor of Science in Applied Studies.

A student may earn an additional bachelor's degree upon completion of at least 32 semester credits in addition to the total credits required for the first degree. For example, if the student's first degree was a Bachelor of Science degree in Business Administration, the second degree will require a minimum of 32 hours and whatever additional requirements are associated with the completion of a Bachelor of Arts degree.

The following conditions will apply to the earning of an additional bachelor's degree:

1. All requirements for the second degree must be met.
2. A minimum of 16 credits, including at least 10 upper-division credits, must be taken at NNU.
3. A student who has not completed residency must complete at least 32 semester credits, including at least 10 upper-division, at NNU.
4. Theology 211 must be taken, which will apply toward a minimum 6-credit requirement in Theology and/or Biblical literature.

ADDITIONAL MAJOR

To become a candidate for a second major, a student must complete all requirements for both majors. For example, if a student wishes to pursue a major in History and Philosophy, upon completion of all degree requirements, two majors would be earned toward a Bachelor of Arts degree. At least 16 of the credits for the second major, including at least 10 upper-division credits, must be earned at NNU.

ADVANCED PLACEMENT CREDIT

University credit will be allowed on the basis of scores of 3, 4, or 5 made in the Advanced Placement Examination of the University Entrance Board. The Registrar will determine the number of credits. A maximum of six (6) semester credits per course will be allowed for Advanced Placement exams.

CHANGES IN REGISTRATION (Drop/Add)

Care should be exercised in choice of courses and class schedule so that changes will not be necessary after registration has been completed. Any changes made after the registration period must be requested in writing on a form specified for this purpose. The course instructor, major advisor, and the director of Academic Advising must approve changes.

A faculty member or administrator **may** drop or withdraw a student under the following circumstances:

1. At or before the scheduled days to drop or withdraw from a course if the student is not attending and not participating in the course.
2. Before the last day to add courses if the student does not meet the prerequisite or co-requisite for the course.

In no way does this action to change the add/drop policy reduce the responsibility of the student to maintain their schedules.

Adding a course is permitted through the 4th day after the first day of class. Dropping a course is permitted through the 8th day after the first day of class without the transaction appearing as a “W” on the student’s permanent record. The last day to withdraw from a 14-15 week semester course is the 8th day after the midterm grade due date of each semester. The last day to withdraw from a quad course is the 23rd day of each quad session.

CLASS ATTENDANCE

At Northwest Nazarene University, class attendance is considered both valuable and important, and students are urged to honor this opportunity. A strong positive correlation exists between class attendance and academic performance. the University also recognizes the value of activities beyond the classroom, and that they may conflict with classes. Therefore, at this university:

1. Students are responsible to create, with help from their advisors, academic schedules consistent with their other activities.
2. Students are responsible to make arrangements with their instructors in advance of planned absences to insure that they understand how they should submit required work and acquire information from the classes missed.
3. University personnel responsible for activities that require students to miss class must advise students about the priority of the academic program. They should model this priority by providing advance notice about activities that conflict with class to the broader campus community and to their immediate supervisor.
4. The attendance policy for any specific class rests with the instructor. Individual course attendance policy and expectations must be stated in all syllabi. If the instructor determines that attendance directly affects the student’s grade, accurate attendance records must be kept.
5. Instructors and students are encouraged to find reasonable, mutually acceptable resolutions of conflicts and difficulties brought about by absences. Student appeals regarding attendance follow the general undergraduate academic appeal procedure.

CLASSIFICATION OF STUDENTS

Students admitted to the university are classified as **Freshmen** until minimum requirements for a higher classification have been met.

For **Sophomore** standing students must have completed 28 semester credits and have a cumulative grade point average of at least 1.750.

For **Junior** standing students must have completed 60 semester credits and have a cumulative grade point average of at least 2.000.

For **Senior** standing students must have completed 90 semester credits and have maintained a cumulative grade point average of at least 2.000. Senior standing does not assure candidacy for a degree.

Post-Baccalaureate students are those who have received the baccalaureate degree and are registered for additional course work at the undergraduate or graduate level.

The semester **Special Student** refers to students who are allowed to attend NNU without submitting the credentials required for admission with regular status. Students under this status are allowed to register for six (6) or fewer credits during any semester except the Summer Session.

COURSE NUMBERING/CANCELLATION

In most departments the courses are arranged to cover a two-year-cycle; some courses are offered every year, others in alternate years, thus giving a wider range of electives over a two-year period than could otherwise be offered.

Numbering System:

095	Remedial elective university credit
100-199	Introductory or basic freshman level courses.
200-299	Pre-professional or sophomore level courses.
300-399	Junior level courses.
400-499	Senior level courses.
500-699	Graduate level courses.

Students may enroll in a course numbered one level higher than their classification with the exception of the lowest quartile freshmen, and sophomores who have a cumulative grade point average less than 2.000.

Reserved Course Numbers:

XX 294-494 Topical Study (1, 2, 4) - A study of an area not covered by other courses.

XX 395, 495 Practicum (1-4) - A combination of classroom instruction and out-of-class supervised practical experience by the student.

XX 196, 296, 396 Field Experience (1) - An out-of-class supervised experience.

XX 496 Internship (1, 2, 4) - An advanced, off-campus supervised experience in the student's major discipline. Internships may carry up to 16 hours of credit. A minimum of 45 internship hours is required for one semester credit.

XX 397, 497 Research, Major Projects, Senior Thesis

XX 298, 498 Seminar

XX 199-499 Independent Study (1, 2, 4) Individualized out-of-class supervised study.

Cancellation of Courses

The university reserves the right to cancel any course at any time.

COLLEGE LEVEL EXAMINATION PROGRAM (CLEP)

This program may be used for granting university credits to those who demonstrate proficiency in specific subjects. The following are guidelines for accepting credits:

Credits earned by CLEP are granted to enrolled students. Such credits may be counted toward degrees but count as transfer credits: i.e., they may not be included in the residency requirement for graduation.

Six semester credits will be given for each of the five areas of the CLEP General Examination wherein a student scores at or above the 50th percentile: English Composition, Mathematics, Humanities, Natural Sciences, and Social Sciences and History. A maximum of 20 semester credits will be allowed for CLEP General Examinations.

No grades or quality points will be assigned CLEP credits.

A student may not receive credit through CLEP for a course which is a prerequisite for a course already taken nor for an equivalent university course already taken.

CREDIT BY LOCAL EXAMINATION

Credit by examination may be desirable for enrolled students who have had prior experience with the subject matter of a course offered at NNU. The student petitions for credit by examination when he/she decides, in conference with the professor for the course, that it is advisable. This is to be done prior to and instead of registering for the

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course. Credit by examination is allowed only in exceptional cases. Credit by examination is not counted as part of the student's academic load for a semester. Credit by examination is not normally permitted the semester of graduation.

CREDIT FOR MILITARY EXPERIENCE

Credit for experience in the armed forces of the United States may be allowed in accordance with the recommendations of the American Council on Education. Official documents covering the work must be submitted to the Registrar for evaluation.

DANTES TESTING

This program may be used for granting university credits to those who demonstrate proficiency in specific subjects, which have been designated by Department Chairs as meeting specific general education or major requirements.

The recommendation by the American Council on Education for cut scores and lower and upper division credit values will be used to issue university credits.

INTERNATIONAL BACCALAUREATE PROGRAM

Northwest Nazarene University is committed to granting credits for the IB program. It will grant 5 lower-division semester credits to be applied to general education and/or major requirements, or elective credit for each higher level course completed with a score of 5, 6, or 7. No credit is granted for subsidiary level courses.

CREDITS, MAXIMUM FOR NON-CLASSROOM EXPERIENCES

A maximum of 25 percent of the total credits required for a degree (31 credits) may be earned using CLEP, DANTES, Advanced Placement, International Baccalaureate, and credit by examination.

DEGREE REQUIREMENT SUBSTITUTION OR EXEMPTION

Only the Registrar may make any substitutions or exemptions within the General Education Program for degrees.

Any substitutions for specific courses required for a particular program fulfilling concentrations, major or minor requirements may be made only by the administrator or administrators of the program in consultation with the appropriate department chair.

DIRECTORY INFORMATION

Early in the fall semester of each academic year, the university publishes Student Directories listing each student's name, class, part- or full-time status, home address and telephone number, and local address and telephone number. Any student who does not wish information published about him or her must complete The Student Directory Entry Waiver Form. This form is available in Media Services. The request should be

completed during the registration period when the ID card is being secured. Student Directory information will be omitted from the listing in any directories or lists published after the student has submitted the form.

GOOD ACADEMIC STANDING

Students who wish to participate and compete in intercollegiate and/or school-sponsored activities and/or academic courses which require audition and performance must be enrolled for at least 12 credits, be in good academic standing and meet the specific academic standard of the group in which participation is sought.

A student will not be considered in “good academic standing” after two consecutive semesters of sub standard performance.

INTERCOLLEGIATE ATHLETIC ELIGIBILITY

Northwest Nazarene University includes the following activities in its intercollegiate athletic program:

Men – basketball, baseball, soccer, cross-country, track and field, and golf.

Women – basketball, volleyball, soccer, softball, cross-country, and track and field.

The men’s and women’s teams are members of the NCAA Division II. Teams compete in the NCAA Great Northwest Athletic Conference. The individuals and teams compete for independent and regional championships, which would qualify them for national competition.

Students who wish to participate and compete in intercollegiate athletics must be enrolled for at least 12 credits during the semester of intercollegiate athletic participation. Student athletes must meet all eligibility standards and transfer requirements specified by NCAA. Student athletes must meet all eligibility standards and transfer requirement standards specified by the NCAA. The institutional session and CUM GIA for Academic good standing take president. Other requirements are as follows by NCAA.

1. As a freshman, be registered and cleared by the NCAA Clearinghouse.
2. Before second year of competition, have accumulated at least 24 credits and have achieved a 1.750 or higher cumulative GPA.
3. Before third year of competition, have accumulated at least 48 credits and have achieved and maintained a 2.000 or higher cumulative GPA.
4. Before fourth year of competition, have accumulated at least 72 credits of which 48 credits must apply toward general education and/or major field of study requirements.
5. May participate in no more than four seasons in any one sport.

GRADE REPORTS

Grades are distributed to students by mail at the end of each semester. Parents of students will be mailed grade reports if the student has provided the Registrar with a signed release or if the parent has presented the Registrar with evidence of the student's current dependent status as defined in section 152 of the Internal Revenue Code of 1954.

GRADING SYSTEM

The academic work of the student is graded in accordance with the following system. Grade points per credit and an explanation of the grading system are also listed.

Grade	Explanation	Points
A		4.0
A-	Distinctly superior or exceptional work	3.7
B+		3.3
B	Meritorious work	3.0
B-		2.7
C+	Adequate work	2.3
C		2.0
C-		1.7
D+	Less than satisfactory work but passing	1.3
D		1.0
F	Failing work	0.0
P	Passing work	
I	Incomplete work	
IP	In progress	
L	Long-semester	
X	No final examination	
K	Conditional mark	
W	Withdrawal	
NC	No credit (audit)	

A grade of *F* indicates failure and necessitates a satisfactory repetition of the course before credit can be allowed. In approved classes a grade of *S* may be assigned. A grade of *I* or *X* indicates incomplete work. An incomplete may be given when, because of extreme circumstances, a student requires an extension of time to complete course work. An *I* may be granted only by petition, which the student may initiate through the professor or the professor may initiate on a student's behalf. The request must be approved by the Academic Council or by persons delegated by it. When an *I* or *X* is

submitted, it will always have a suffix grade attached which the student will receive if no further work is done for the course, e.g. *ID* or *XF*. Normally, if the incomplete is not made up two weeks before the close of the semester following the one in which the mark was incurred, the prefix *I* or *X* will be dropped from the grade unless an additional request is made and granted to have the period of the incomplete extended. An instructor may request that the student make up the deficiencies before the end of the semester. On a pass/fail grade an “*IP*” may not be assigned. The only incomplete grade that can be assigned to a pass/fail course is “*IF*.”

A grade of *L* may be given only in courses which require more than one semester to complete. The *L* grade will be replaced by either an *P* grade or a point-receiving grade upon course completion. An *L* grade will not normally extend beyond one calendar year unless an additional request is made and granted through the Registrar’s Office to have the period of time extended. If one calendar year elapses and no extension is filed, the *L* grade will revert to a grade based on a student’s current standing in the course as designated by the professor.

A grade of *K* is a temporary grade to be used in sequence courses when a student has failed the first course, but has been given permission to continue in the next course. An appropriate grade will be given to replace the *K* when the second course is completed. If the second course is not completed, the grade of *K* becomes an *F*.

A grade of *W* is always recorded when a student has withdrawn according to prescribed procedures. Ordinarily, no withdrawals will be granted after the Friday of the eighth week of the semester.

No credit is awarded for a course receiving a grade of *W*. The *W*, *S*, *I*, *L*, *X*, and *K* are neutral grades and no quality points are given for them. The grade point average of a student is determined by dividing the total number of quality points earned in any semester by the total number of credits in his or her academic load, excluding neutral course units.

HONOR SOCIETY

Phi Delta Lambda is the national honor society of the colleges and universities of the Church of the Nazarene. The faculty of Northwest Nazarene University has set the following standards for inclusion in the local Delta Chapter of this society: a favorable two-thirds vote of the faculty, good character, graduation in the upper 15 percent of the present graduating class, and a cumulative grade point average of 3.50. Students must have earned 60 semester credits at NNU to be eligible for Phi Delta Lambda.

HONORS AT GRADUATION

Summa Cum Laude is awarded to students with a cumulative grade point average at or above 3.900. Magna Cum Laude is awarded to students with a cumulative grade point

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average between 3.750 and 3.899. Cum Laude is awarded to students with a cumulative grade point average between 3.500 and 3.749. Students must have completed at least 60 semester credits at Northwest Nazarene University to be eligible for honors at graduation.

NON-CREDIT CLASSES

With the consent of the Registrar and the instructor concerned and upon payment of the non-credit fee, a student may enroll in approved courses on a non-credit basis. Senior citizens who are 60 years of age or older may enroll for courses each semester tuition-free, provided the section limit (if applicable) has not been reached. A person who enrolls in a course on a non-credit basis may not receive credit for it without re-enrolling for the course.

SEMESTER CREDIT

One semester credit is a quantitative measure representing a class meeting once a week for 15 weeks for 50 minutes together with out-of-class preparation of approximately two hours per week, or the equivalent.

REGISTRATION

Registration dates are found in the official university calendar published in this catalog and elsewhere. All students are expected to be present and to complete registration on the days scheduled for this purpose.

Instructions for registration will be furnished each student at the time of registration. Students are not enrolled in classes until all registration materials are completed and approved by advisors and other authorized persons, and satisfactory financial arrangements are made and approved in the Business Office.

A normal registration period of one or two days is scheduled at the beginning of each semester. A \$100 late registration fee will be charged for completion of registration after this designated time. Registration for regular course work after the last day to *add* classes must be approved by the Registrar. In such cases the student's course load may be reduced.

REPEATED COURSES

Students may repeat any course to improve a grade. In such cases the latest grade received, in the repeated course, will be the one considered in computing the grade point average required for graduation, academic probation, or honors. If a student desires to repeat a course to replace a grade, a petition for a repeat course must be filed with the Registrar before enrolling in the course.

RECOMMENDATIONS

Satisfactory completion of the prescribed academic curriculum does not in itself guarantee the recommendation of a student for entrance into a profession or professional school. The work habits, personality, and character traits of the student, as well as scores on examinations, may be considered in addition to his or her academic record.

STUDENT ACCESS TO RECORDS

Northwest Nazarene University is in compliance with the Family Educational Rights and Privacy Act of 1974. Any student at Northwest Nazarene University may personally inspect, review, and have a copy made of any record kept on him or her. Where information regarding a student is commingled with that relating to other students, the student may have the information concerning only herself or himself transmitted orally. Anything in a student's record, which the student does not understand, will be explained. The records are reviewed, and materials expunged, periodically.

In order to protect the right to privacy, the university will not make any personally identifiable records available, without the student's written consent, to anyone other than NNU officials with a legitimate educational interest, officials of other schools to which the student has applied, certain government officials, and certain persons in connection with an application for financial aid.

If a student concludes that his or her record contains inaccurate, misleading, or otherwise inappropriate data, the student may request an informal meeting with the appropriate administrator to see if, through discussion, a satisfactory agreement can be reached concerning correction, explanation, or deletion of material.

If satisfactory agreement cannot be reached informally, the student may proceed with the university judicial process. The claim of incorrectness must be proved before any material will be removed. The result of the judicial process will be provided to the student in writing within a reasonable period of time and is final.

SEMESTER LENGTH

A semester consists of approximately 15 weeks of instructional class days plus a final examination period, usually four days in length.

TRANSCRIPT OF ACADEMIC RECORD

Students may review their academic records upon request and presentation of photo identification. Students may have an official transcript of their record prepared upon completion of a signed request in the Registrar's Office. Such official transcripts will be supplied only when the student's account is in good standing. Usually a minimum of five business days is required for processing official transcripts.

The official transcript, which is dated, stamped with the Registrar's signature, and sealed, is normally acceptable evidence of educational background to other institutions.

TRANSFER OF CREDITS

Northwest Nazarene University normally accepts university-level credits earned in academic degree programs at colleges and universities accredited by regional accrediting associations. Credits earned in other institutions are granted on a case by case basis. The university does not accept for credit courses in which a grade lower than C- (1.75) was received, nor does it accept sub-university (remedial or developmental) courses. Transcripts are evaluated by the Registrar. A transfer student's classification is based on the total number of credits accepted. A maximum of 62 semester credits (or one-half the total credits required for graduation) may be transferred from a two-year school. The computation of Cumulative Grade Point Average is based only on grades received at Northwest Nazarene University.

1. Course-by-Course Transfer

Credits earned at accredited colleges and universities will be evaluated by the Registrar. Classification is established by the evidence submitted. The university does not accept grades below "C-" (1.75) for transfer. Credits earned at non-accredited colleges and universities may be accepted and used to determine classification; evaluations are made on an individual basis. A maximum of 62 lower school semester credits or one-half the total required for graduation may be transferred from a two-year school. The computation of the Cumulative Grade Point Average is based only on grades received at Northwest Nazarene University.

2. Two-Year Transfer Degree from Oregon, Washington, Idaho State Community Colleges, and Idaho four-year state institutions.

Students who plan to transfer to NNU upon completion of a two-year transfer degree should plan the courses for that degree carefully and with NNU in mind. Some of the transfer degrees require fewer courses in the areas of history, philosophy, or humanities than are required by NNU students. However, because most transfer degree programs allow a number of elective credits, students are encouraged to take credits in philosophy, history and humanities to fill these elective requirements.

A student who enrolls at Northwest Nazarene University with the following degrees completed prior to admission:

- 1. An Associate of Arts Transfer Degree** from any Oregon State Community College or Washington State Community College as approved by the ICRC (Inter-university Relations Commission for the State of Washington) with credits graded C- or better;

2. **An Associate of Arts or an Associate of Science Degree** from any Idaho State Community College or Idaho four-year state institution approved by the Idaho State Board of Education with credits graded C- or better will receive;
 - a. Junior Standing
 - b. Transfer credit up to a maximum of 62 semester credits
 - c. Waiver of all general requirements, with the following exceptions:
 - (1) **TH 211 Introduction to Christian Theology (4 credits)**
 - (2) **An elective in Bible Literature or Theology (2-3 credits)**
 - (3) **Any missing kinesiology activity requirements (up to 3 credits)**

Note: A two-year Transfer Degree may not guarantee bachelor degree completion within two years. Course pre-requisites, course sequencing, and upper division requirements must also be met.

Transfer students are encouraged to contact the Registrar's Office to determine applicability of their coursework to a specific bachelor's degree. General information can be given over the toll free number 1- 877-NNU-4-YOU. A complete transcript evaluation is available by sending the request with an official copy of the university transcripts to: Registrar's Office, Northwest Nazarene University, 623 Holly Street, Nampa, ID 83686.

The minimum number of credits required to complete a degree is 124 semester credits of which 43 must be upper-division (courses numbered 300 and above). For a complete listing of the undergraduate degree requirements, refer to the previous chapter.

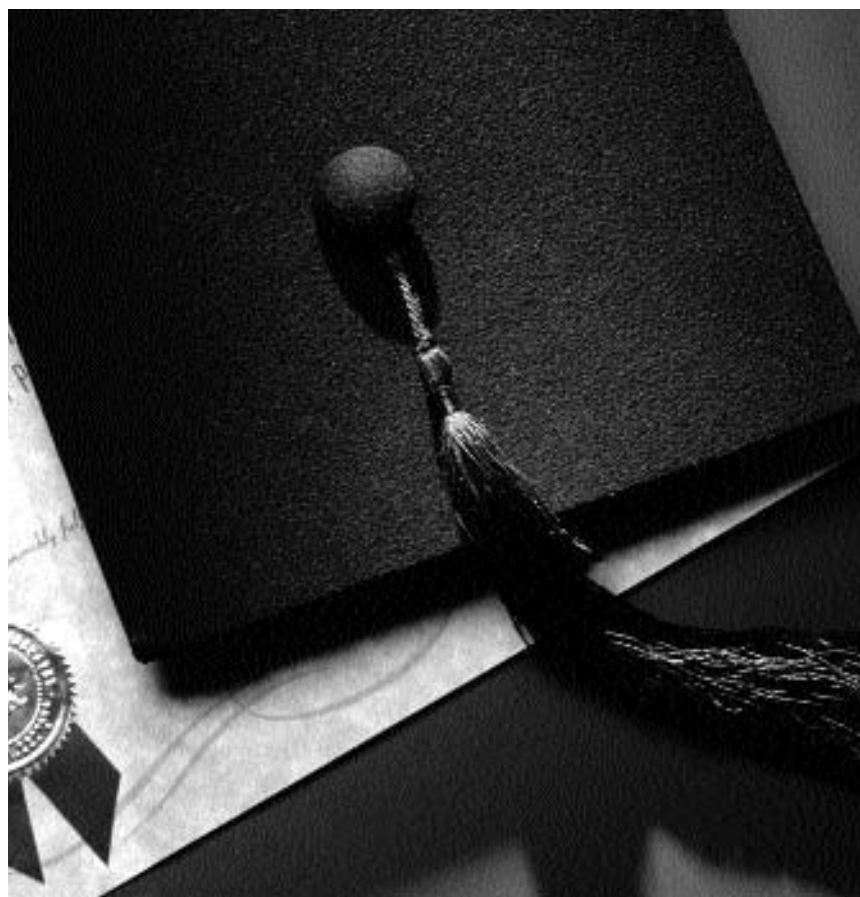
DROP AND WITHDRAWAL FROM COURSES

Students, who drop a class, must do so before the 8th day after the first day of classes in any semester. Students must complete a course drop form available in the office of the Registrar or Academic Advising and obtain approvals from the major advisor and office of Academic Advising. Dropped classes will not be recorded on the permanent record.

Students desiring to withdraw from courses after the 8th day after the first day of classes in any semester must complete a course withdrawal form available in the offices of the Registrar or Academic Advising and obtain approvals from the instructor, major advisor, and Office of Academic Advising. Withdrawals will be recorded on the permanent record as a "W" and will not be granted after the 8th day following the midterm grade due date of the semester.

WITHDRAWAL FROM THE UNIVERSITY

Students who find it necessary to withdraw from university before the last class session prior to final exams must secure withdrawal forms from the Office of Academic Advising. These forms must be properly and satisfactorily completed, signed, and filed. An exit interview is required with the offices of Academic Advising and Student Development.



SPECIAL PROGRAMS AND STUDY OPPORTUNITIES

NNU PROGRAMS:

APPLIED STUDIES PROGRAM

This program leads to the Bachelor of Arts degree. It provides students with a broad program including course work in an applied area coupled with course work in the humanities, in social sciences, and in mathematics and natural sciences. The program is administered by the Director of Academic Advising in conjunction with major advisors.

Requirements: 80 credits including 18 in humanities, 18 in social sciences, 16 in mathematics and natural sciences and 28 selected from one or two of the following areas: applied art, business, education, engineering, English (courses in writing or composition which may include EN 102 and EN 202), kinesiology, music (education, theory and applied), Christian education, social work, communication studies. In a single focus, applied studies major, 16 credits of the 28 credits must be numbered above 299. In a dual focus applied studies major, 16 of the 28 credits must be numbered above 299, with at least 8 upper-division credits taken in EACH applied area.

Notation: If music is selected, no more than four credits of private lessons may apply. If kinesiology is selected, no more than four credits of kinesiology activities or activity labs may apply.

LIBERAL STUDIES PROGRAM

This program leads to the Bachelor of Arts degree. It provides students with the content, methodology, and implications of the basic areas of human knowledge; it fosters the attitude of intellectual curiosity harnessed by moral responsibility; and finally, it encourages a student to think for himself or herself, to be able to participate in life as an autonomous individual. The program is administered by the Director of Academic Advising.

Requirements: 80 credits in one of the three emphases listed below.

Humanities Emphasis

Humanities: 32 credits (including 16 credits numbered above 299)

Social Science: 24 credits

Mathematics and Natural Science: 24 credits

Mathematics and Natural Science Emphasis

Mathematics and Natural Science: 32 credits (including 16 credits numbered above 299)

Humanities: 24 credits

Social Science: 24 credits

Social Science Emphasis

Social Science: 32 credits (including 16 credits numbered above 299)

Humanities: 24 credits

Mathematics and Natural Science: 24 credits

INDIVIDUALIZED MAJOR

The Individualized Major leads to the Bachelor of Arts or Bachelor of Science degree. It provides an individually designed major study plan for those students whose objectives cannot be met by the normal major study programs. A department chair selected by the individual student administers the program.

Requirements: A major study plan is prepared cooperatively by the sponsoring faculty member and the student, to be completed no later than the first semester of the junior year. Guidelines for the Individualized Major may be obtained from the Registrar. The Curriculum Committee of the school in which that department is located must approve this plan. The plan is to indicate whether the major is departmental, interdepartmental, school, or inter-school and is to meet the normal study requirements for the selected type of major. Cooperative programs such as a combination of catalog and off-campus or foreign studies are appropriate. Only those plans exhibiting unusual merit will be approved.

The guidelines for the minimum and maximum number of credits for each individualized major are listed below:

Major	Minimum Credits	Maximum Credits	Upper-Division Requirement
Departmental Major	30	46	22
Interdepartmental Major	38	59	27
Inter-School Major	54 (24 in one School)	64	36 (16 in the same School as are the 24 required)

HONORS PROGRAM

This program, which provides an integrative learning experience for academically superior freshmen, is offered as an alternative to some of the general education requirements. The program introduces students to a unified and flexible approach to knowledge. It offers significant interdisciplinary learning experiences during the first

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year at NNU. Class structure includes team teaching and small discussion groups. Students accepted into the program form a cohesive learning group that stays together for the entire academic year. The screening and selection committee establishes specific program acceptance criteria. Enrollment is limited.

Graduation requirements for students in the honors program are the same except for the general education program.

ACADEMIC SUPPORT CENTER

Faculty: Evelyn L. Bennett, Barbara S. Howard

The Academic Support Center supports the entire academic program by providing full-time students with 1) university study skills instruction, 2) reading instruction, 3) mathematics instruction, 4) computer instruction, 5) course-related tutoring, and 6) individualized learning activities in such areas as spelling improvement and general editing improvement, vocabulary building, speed reading, analytic reading, and pre-professional achievement test preparation. Many of these options are available for credit.

The Academic Support Center is a comfortable, open study area with individual study and counseling rooms and seating capacity in the larger study area for 20 students.

DEPARTMENT OF MILITARY SCIENCE

Coordinators: Department Staff

Objective: Provides the opportunity for NNU students to earn a commission in the United States Army, Army Reserve, or National Guard while pursuing a baccalaureate degree.

General: NNU is affiliated with the Senior Division, Army Reserve Officer Training Corp (ROTC) of Boise State University. The ROTC program is offered to students who have the desire and ability to become commissioned officers in the United States Army Reserve, National Guard, or Regular Army. Participation in the program is voluntary for the first two years.

The complete program of instruction comprises four years and one summer camp, or two years and two summer camps.

A complete statement of requirements is available in the Military Science office.

Scholarships

Two- and three-year scholarship program applications are available through the Military Science Department. Each scholarship recipient will receive up to \$18,000 per year for

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either two or three years. These scholarship benefits are used for tuition and associated fees. There is an additional \$500 per year flat rate for books. Students who receive scholarships will also receive an additional \$250-\$350 per month (see Financial Assistance paragraph below). Each student selected for a scholarship must select to serve in the National Guard, Reserves, or on Active Duty as a commissioned officer.

Financial Assistance

Each advanced course student (Junior and/or Senior) receives an allowance of \$300-\$350 a month for up to ten months a year for two years. Summer camp pay in addition to meals, quarters, medical/dental attention, and travel pay is \$760 (approximately). A uniform allowance of \$300 is paid to each commissioned student upon entry to active duty.

GRADUATE STUDIES

Northwest Nazarene University provides graduate programs in administration, business, curriculum and instruction, Christian ministries, exceptional child, school counseling, and social work. Additional information and a copy of the graduate catalog may be obtained by writing, calling, or E-mailing Graduate Studies, Northwest Nazarene University, 623 Holly St., Nampa, ID 83686-5897. The telephone numbers are 1-208-467- 8345 or 1-800-349-6938 (toll free). The E-mail address is grad@nnu.edu.

For program advising and graduate curricular questions please contact the following:

<u>Program</u>	<u>Director</u>	<u>Phone</u>	<u>E-mail</u>
Business	Dr. Ron Galloway	(208)467-8447	mba@nnu.edu
Curriculum & Instruction	Dr. Joy Bielenberg	(208)467-8871	CI@nnu.edu
Educational Leadership	Dr. Jan Cantrell	(208)467-8353	EL@nnu.edu
Exceptional Child	Dr. Karen Smucker	(208)467-8357	EC@nnu.edu
School Counseling	Dr. Brenda Freeman	(208)467-8428	SC@nnu.edu
Master of Ministry	Dr. Gary Waller	(208)467-8538	rel@nnu.edu

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Master of Arts	Dr. Mark Maddix	(208)467-8538	rel@nnu.edu
Social Work	Professor Mary Curran	(208)467-8826	msw@nnu.edu

SUMMER SCHOOL

Summer School is designed to provide students that will help complete or enhance their university degree by providing core and elective courses. Students may optimally plan their collegiate career with the assistance of their advisors. Potentially, some degrees could be achieved in three years with Summer School courses. Summer School could also help students avoid extra semesters. Incoming freshmen and transfer students are welcome to take Summer School classes at NNU.

OFF-CAMPUS PROGRAMS:

COUNCIL FOR CHRISTIAN COLLEGES AND UNIVERSITIES (CCCU)

Coordinators: Steve Shaw, Mark Gismondi

The CCCU sponsors the following academic programs:

American Studies Program (ASP)

Founded in 1976, the American Studies Program has served hundreds of students from member institutions as a “Washington, D.C. campus.” ASP uses Washington as a stimulating educational laboratory where collegians gain hands-on experience with an internship in their chosen field. Internships are tailored to fit the student’s talents and aspirations and are available in a wide range of fields. They also explore pressing national and international issues in public policy seminars which are issue-oriented, interdisciplinary and led by ASP faculty and Washington professionals. ASP bridges classroom and marketplace, combining biblical reflection, policy analysis and real-world experience. Students are exposed to on-the-job learning that helps them build for their future and gain perspective on the calling of God for their lives. They are challenged in a rigorous course of study to discover for themselves the meaning of Christ’s lordship in putting their beliefs into practice. The aim of the program is to help Council schools prepare their students to live faithfully in contemporary society as followers of Christ. Students earn 16 semester hours of credit.

China Studies Program (CSP)

The China Studies Program enables students to engage this large and intriguing country from the inside. While living in, and experiencing Chinese civilization firsthand, students participate in seminar courses on the historical, cultural, religious, geographical and economic realities of this strategic and populous nation. In addition to the study of standard Chinese, students are given opportunities such as assisting Chinese students learning English or working in an orphanage, allowing for one-on-one interaction. The

Special Programs and Study Opportunities

program introduces students to the diversity of China, including Hong Kong, Beijing, Shanghai, Xi'an and Xiamen. This interdisciplinary, cross-cultural program enables students to deal with this increasingly important part of the world in an informed, Christ-centered way. Students earn 16 semester hours of credit.

Contemporary Music Program (CMP)

The Contemporary Music Program provides students the opportunity to live and work in community while seeking to understand how God will have them integrate music, faith and business. Both interdisciplinary and multi-disciplinary in nature, the CMP offers two tracks: the Artist Track and the Executive Track. 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. Both Artist and Executive track students receive instruction, experience and a uniquely Christian perspective on creativity and the marketplace, while working together to create and market a recording of original music. Both tracks include course work, labs, directed study and a practicum. Students earn 16 semester hours of credit.

Honors Program-CMRS, Oxford (HP-O)

Honors and other highly qualified students have the exciting opportunity to study in England through this interdisciplinary semester in Oxford. The rigorous academic program, aimed at increasing critical thinking skills and scholarship from an integrated Christian perspective, allows participants to choose from a wide variety of tutorial study programs in numerous disciplines, including the arts, religion, history, literature and philosophy. In addition to two tutorials, students participate in a seminar and an integrative course through which they produce a scholarly project or term paper. Field trips provide opportunities for experiential learning in England's rich historical setting. Students earn 16 semester hours of credit.

Latin-American Studies Program (LASP)

Students of CCCU colleges have the opportunity to live and learn in Latin America through the Latin American Studies Program, based in San Jose, Costa Rica. The program introduces students to as wide a range of experiences through the study of the language, literature, culture, politics, history, economics, ecology and religion. 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. Students participate in one of four concentrations: Latin American Studies (offered both fall and spring terms); Advanced Language and Literature (limited to Spanish majors and offered both fall and spring terms); International Business and Management (offered only in fall terms); and

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Tropical Sciences (offered only during spring terms). Students in all concentrations earn 16 semester credits.

Los Angeles Film Studies Center (LAFSC)

The Los Angeles Film Studies Center is designed to train students of Council institutions to serve in various aspects of the film industry with both professional skill and Christian integrity. Students live, learn and work in the LA area near major studios. The curriculum consists of two required seminars focusing on the role of film in culture and the relationship of faith to work in this very influential industry. In addition, students choose two elective courses from a variety of offerings in film studies. Internships in various segments of the film industry provide students with hand-on experience. The combination of the internship and seminars allow students to explore the film industry within a Christian context and from a liberal arts perspective. Students earn 16 semester hours of credit.

Middle East Studies Program (MESP)

This program, based in Cairo, Egypt, allows Council 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 people. In addition to seminars, students study the Arabic language and work as volunteers with various organizations in Cairo. Through travel to Israel, Palestine, Jordan, Syria and Turkey, students are exposed to diversity and dynamism of the region. MESP encourages and equips students to relate to the Muslim world in an informed, constructive and Christ-centered manner at a time of tension and change. Students earn 16 semester hours of credit.

Russian Studies Program (RSP)

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 entitled History and Sociology of Religion in Russia; Russian Peoples, Cultures and Literature; and Russia in Transition, students receive instruction in the Russian language, choosing either 4 or 6 semester hours of language coursework. For those choosing 4 hours of Russian, a seminar course, International Relations and Business in Russia, is available. RSP strives to give students as wide an experience as possible in this complex nation, beginning with time in Moscow, the heart of both medieval and modern Russia. Students then spend 12 weeks in Nizhni Novgorod, a strategic city on the Volga River. After six weeks of language instruction, students live with a Russian family for the remainder of their stay in this city. Students also participate in a service opportunity in Nizhni Novgorod. The program concludes with time in the complex and intriguing city of St. Petersburg, the Russian "window to the West." Students earn 16 semester hours of credit.

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Summer Program – CMRS, Oxford: This program allows students to spend a summer term studying at the Centre for Medieval and Renaissance Studies (CMRS) in Oxford, England. The program includes multi-disciplinary study of the Renaissance and Reformation through examination of philosophy, art, literature, science, music, politics and religion of early modern Europe in a choice of lectures, seminars and field trips. Students earn 6-9 semester credits, which are administered directly to member institutions by CMRS. Worth 6-9 hours of credits.

The CCCU endorses the following academic programs:

Jerusalem University College

Coordinator: Wendell Bowes, Department of Philosophy and Religion. Jerusalem University College is an evangelical, nondenominational institution located on Mt. Zion in Jerusalem, Israel. It offers NNU students both graduate and undergraduate programs of study for periods of a year, a semester, or two or three-week courses during the summer. The programs of study seek to enhance the student's understanding of the Bible and the culture of the Middle East. Courses are offered in the history, archaeology, geography, languages, and religions of the Middle East, both ancient and modern. Applicants must have completed at least one year of college or university work with a 2.0 GPA or better. NNU has established an "associated school" relationship with JUC which allows students to transfer credit easily.

Au Sable Institute of Environmental Studies

Au Sable Institute is a Christian institute whose mission is to bring healing to the biosphere and the whole of Creation. It offers academic programs in a variety of natural settings throughout the United States and the world from its home campus in Michigan. Northwest Nazarene University is an "eligible university," which allows students to enroll in Au Sable courses and internships. A variety of courses in environmental study and stewardship, including Environmental Ethics and Ecotheology, are offered at most locations. Most students enroll in summer sessions at the Great Lakes campus in the Great Lakes Forest in Michigan, the Pacific Rim Campus on Puget Sound in Washington, or the East Campus on the Chesapeake Bay in Virginia. International experiences are available at the African Institute for Scientific Research and development at Olooseos near Nairobi, Kenya or Bishop Heber College in Tiruchirapalli, Tamil Nadu, and South Indian campuses. Course credit can be arranged through participating colleges or universities or by independent study at Northwest Nazarene University.

SISTER UNIVERSITY PROGRAMS

Nazarene Theological College of Australia

Nazarene Theological College (NTC) of Australia is a sister university of Northwest Nazarene University. NTC is a three-year college approved by the ministry of education

Special Programs and Study Opportunities

of Queensland. It offers programs preparing scholars for various kinds of Christian ministries. Courses in Bible and Christian theology are available. Upon prior approval of the NNU advisor and the NNU registrar, courses taken by students at NTC may be transferred to NNU to meet certain NNU graduation requirements.

Romania Studies Program

Northwest Nazarene University, in conjunction with Eastern Nazarene College located in Massachusetts, offers students the opportunity to study one semester in Romania. The program is located in Sighisoara, one of the historic German cities in Transylvania. Students take 8 semester credits of Romanian Language and Culture and 8 semester credits of Cross-cultural Service Learning. Internships may be arranged in business, computers, religion, mission, youth ministry, and other fields. A maximum of 16 semester credits may be earned.

Korea Nazarene University

Korea Nazarene University is a four-year university located in Ch#Onan City about 40 miles south of Seoul, the capital of the nation. The distinctiveness of the university is to provide a Christian educational environment while preparing students to take leadership in the 21st century global community.

NNU students may choose to attend the normal curricular offerings of the university, which are focused around two undergraduate divisions and four departments. The Division of Computer Science has two majors: Computer Science and Computer Information Systems. The Division of Theology has three majors, Theology, Christian Education, and Missions. The four departments are English, Rehabilitation, Education of Children, and Music. The Music Department has two majors, Piano and Voice.

Canadian Nazarene University College

Canadian Nazarene University College is located in Calgary, Alberta, Canada. The college offers several academic programs, including: Diploma in College Studies, General Studies, Religious Studies, Church Music, Youth and Family Studies, and Theology.

Under the student visitation agreement, students from CNUC or NNU might attend the other institution for one semester to study under a particular faculty member, to engage in a particular program of study, or to study in another part of North America.

ADDITIONAL OFF-CAMPUS STUDY PROGRAMS

Kazak-American Free University-East Kazakhstan State University

Coordinator: Dr. David Houghton, Department of Business and Economics

The Kazak-American Free University is a college of the East Kazakhstan State University in Ust-Kamenogorsk, Kazakhstan. Instruction is given in English. NNU students have opportunity to study undergraduate courses in business for one semester at the college.

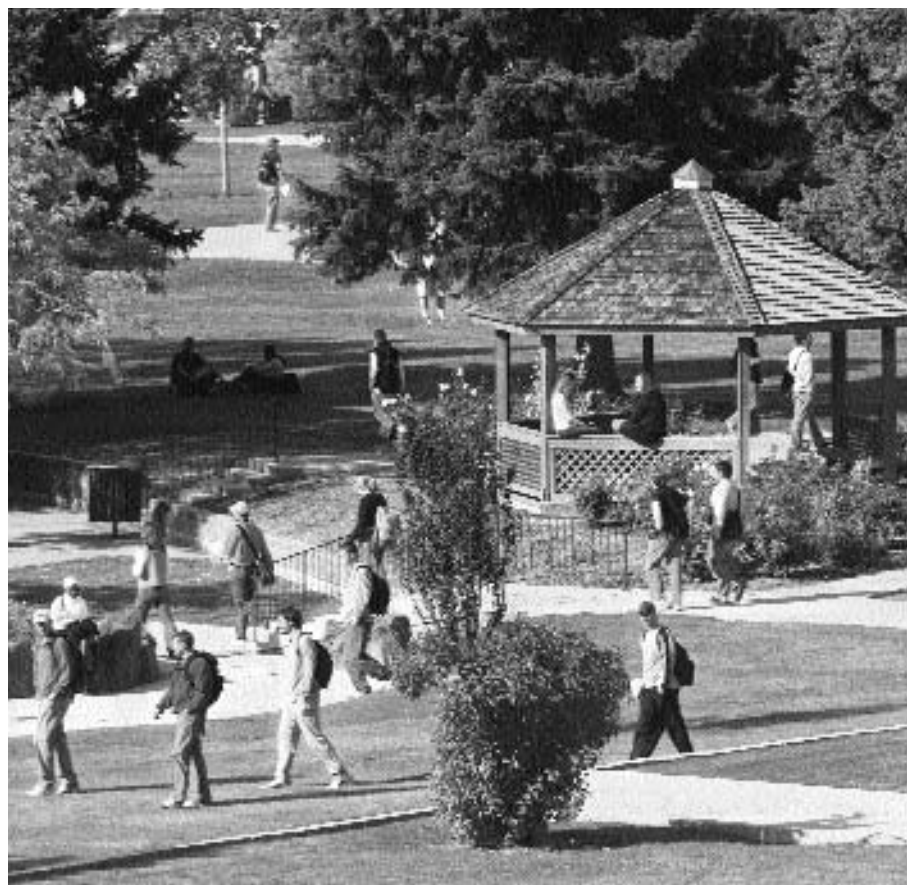
Universidad Internacional-Mexico

The Universidad Internacional, located in Cuernavaca, Mexico, offers students the opportunity to experience an intensive study of the Spanish language and Latin-American Culture. Because of the variance in background and instruction, all students are given a brief assessment of their oral and written skills in Spanish to assure they are enrolled at the appropriate level. Classes range from beginning through advanced levels. Advanced courses include literature, culture and history, linguistics, and professional internships. Students at the undergraduate or graduate level in Spanish, International Business, Education, Social Work, Criminal Justice or other professions that require fluency in Spanish or competency in Hispanic culture will value this educational opportunity.

Africa Nazarene University

Africa Nazarene University is located in Nairobi, Kenya. The university offers undergraduate majors in religion, computer science, and business administration. In addition to courses related to these majors, ANU offers a wide range of general education courses.

NNU students desiring to study at ANU for one semester should gain approval from the student's advisor and the NNU registrar for the courses to be taken at ANU to assure the credits earned will meet one or more of NNU's graduation requirements.



STUDENT LIFE

Northwest Nazarene University is committed to the development of the whole person. The opportunities provided by a residential campus setting add significantly to one's education. Education involves not only the mind, but the use of one's body, the management of emotions, the development of independence, the establishment of identity, and the development of purpose and integrity.

The commitment to the development of the whole person finds reality in numerous organized activities and programs which include counseling and guidance; resident life programs; spiritual development; chapel; health services; social, recreational, and leisure time activities; intercollegiate and intramural sports program; and a productive system of student government.

LIFESTYLE EXPECTATIONS

The essential mission of Northwest Nazarene University is the development of Christian character within the philosophy and framework of genuine scholarship. NNU is a community of both developing scholars and growing Christians. Thus, each new student is encouraged to recognize the privileges available to participate in a community committed to Christian scholarship. Behavioral expectations emerge because of the unique nature of this community.

All students are expected to live by the lifestyle guidelines as stated in the Student Handbook, which are based on the University's relationship to the Church of the Nazarene and the directives and guidelines established by it.

New students will receive a copy of the current Lifestyle Guidelines prior to their enrollment. The student is expected to read these policies. **The signature on the student application is an agreement to comply with the lifestyle guidelines of the university.** It is to be understood that the signed application will be considered valid and remain binding throughout the period a student is enrolled at NNU. Any changes in campus policy from year to year will be identified in the Cru-Keys and the annually revised Student Handbook. All students are responsible to follow said policies. A copy of the Student Handbook is available on the web at <http://www.nnu.edu/handbook>.

Any prospective student who feels he or she needs clarification of the printed regulations will have opportunity to discuss the matter with the Office of Student Development either prior to or at the time of registration.

In addition to the provisions of termination for misconduct, the University reserves the right, at the end of the academic semester, to deny re-enrollment or the right to access

Student Life

campus housing to any student when such action, approved by the President, is deemed to be in the best interest of the University or the student.

CAMPUS LIFE

Each full-time undergraduate student is a member of The Associated Students of Northwest Nazarene University (ASNNU). The entire student body is organized for the purpose of carrying on the various student activities. Student Government Association (SGA) consists of the Student Executive Council, a Student Senate, a Student Judicial Board, and Class Councils.

CLUBS AND ORGANIZATIONS

Students find outlets for their special interests in various campus organizations such as:

- Accounting Club**
- Business Club**
- Chemistry Club**
- Circle K Service Club**
- College Republicans**
- Fellowship of Christian Athletes**
- Fencing Club**
- International Students Club**
- Volleyball Club**
- Multi Cultural Affairs Club**
- Non-Residential Students Club**
- Outdoor Recreation Club**
- Phi Kappa Delta, Honorary Forensic Society**
- Political Science Club**
- Psychology Club**
- Society of Physics Students**
- Student Association of Social Workers**
- Students In Free Enterprise**
- Student National Education Association**
- Ultimate Frisbee Club**

MINISTRY CLUBS

- AIDS Ministry**
- Angels Ministry**
- P.A.L.S.**
- Compassionate Ministries Club**
- Homework Club**

Hope House Ministries
Ministry to the Elderly
Ministry to Young Mothers
Skaters For Christ

SUPPORT SERVICES

Counseling Center.

Personal Counseling is provided for students seeking personal understanding, support, and growth related to student life, relationships, family concerns, personal issues (i.e., depression, abuse, addiction, etc.), premarital and marital counseling, or other areas of concern. NNU provides the Counseling Center as a free service and encourages its use.

The University offers a variety of opportunities, including:

1. Individual counseling provided by professional counselors, and/or supervised interns.
2. Co-curricular seminars covering issues such as safety, relationships, personal choices, and other pertinent issues.
3. Referral sources within the local community through the Counseling Center. These include special needs, emergency hospitalization, and psychiatric care. Financial responsibility for such off-campus referrals must be taken by the student and his or her parents.
4. Pastoral counseling provided by the University Chaplain to assist students in exploring spiritual areas of their lives.
5. Group Counseling. A variety of groups are led by trained counselors to help students deal with specific issues, get support, and develop skills in the general areas of relationships, trust, and honesty.
6. Peer Counselors. These are students who receive training in active listening skills, referrals, and confidentiality to provide a resource to other students in helping them make the transition to a more fulfilling university life.

The Office of Multi Cultural Affairs.

The Office of Multi Cultural Affairs works directly with U.S. ethnic minority, international, and missionary students in assisting them in their transition into NNU's community. The Office of Multi Cultural Affairs provides planning, advocacy, access to resources, and advising, in order to facilitate a resource focal point for helping multi-cultural students complete their education at NNU, as well as enabling them to have a positive university experience. Students can be involved in the following:

International Students Club
Multi Cultural Club
Multi Cultural Advisory Committee

Student Life

Support Groups

Newsletter

Panel Discussions

Chapel/Convocations

Academic Advising and Assessment

Advising: The Academic Advising Office endeavors to enhance the educational experience of each student through assistance in discovering his or her abilities, interests, and career objectives. All students are encouraged, particularly during their freshman year, to meet with an academic advisor to review their social, personal, and career goals in relationship to their test scores and academic record. Students' progress is monitored each semester, and those encountering difficulty are counseled by the Academic Advising staff. Programs in basic study skills and tutorial assistance are available by both professionals and peers through the Study Skills Center for students desiring academic support.

Assessment: The Assessment Office currently administers the ACT and Senior CAAP, and proctors correspondence course exams for current students. The results are available to the individual students and/or the appropriate advisors.

Career Center

The Career Center provides information and assistance to students who wish to assess career goals and investigate career opportunities. In addition, the Center facilitates faculty as they assist their students in their employment searches. The Career Center will help students write effective resumes; practice interviewing techniques; establish networking contacts through the ASK (Alumni Sharing Knowledge) program; and find career-related part-time or summer employment. The Center compiles and sends placement files as a free service for graduating seniors. Career Week activities include several career related events including an etiquette dinner/dress for success style show and a major career fair.

SPIRITUAL LIFE

The University Chaplain gives direction to the spiritual life programs of the campus and is available to all students, faculty, and staff for issues related to spiritual development and pastoral counseling.

Northwest Nazarene University is committed to the development of a climate in which the spiritual lives of each member of the community can flourish. One's faith cannot be bought, sold, or inherited. It is the product of one's own relationship with God. Spiritual growth is maximized when faith is expressed through relationships and ministries.

As members of the Northwest Nazarene University community, students are stretched in their understanding of (1) Christian commitment, (2) Christian ministry, and (3) Christian vocation. Faculty and staff are encouraged to pursue their own spiritual development and to be equipped and available to assist students in their walk with Christ.

Campus Ministries:

A wide variety of programs provide opportunities for guidance, encouragement, and instruction for a growing faith in Jesus Christ. Included in these programs are discipleship programs, covenant and accountability groups, international and domestic mission trips, and community service opportunities.

Chapel Services, Convocations and Campus Ministries:

The purpose of the Chapel/Convocation program at Northwest Nazarene University is to build and maintain a sense of community. The spiritual, ethical, and cultural content of these gatherings, in keeping with the Mission Statement of Northwest Nazarene University, is designed to build Christian character and is imperative to the pursuit of a Christian liberal arts education. **Consequently, attendance is required of all undergraduate students.** Specific chapel and convocation attendance policies are addressed in the [Student Resource Guide](#).

Each Monday the entire campus gathers for a weekly “Community Chapel.” These services form the core of community life at NNU. Community Chapels include a blend of Christian music, periodic updates on campus news, an opportunity for a member of the Staff, Faculty, or Student Body to testify publicly to God’s ongoing work in their lives, and a message from the University Chaplain. Chapels and convocations on Wednesdays and Fridays include a variety of speakers and programs designed more specifically for the student community.

Sunday Worship: All students are encouraged to become involved in a local church of their choice.

Lecture Series: Several special lecture series have been established across the years to enhance the chapel/convocation programming. A brief description of the major lecture series follows:

The Staley Distinguished Christian Scholar Lecture Series was established by Mr. and Mrs. Thomas F. Staley. The Foundation seeks to bring to the campus a variety of speakers to address life issues in the Christian context.

The John E. Riley Intellectual Life Lecture Series has been endowed by alumni and friends to honor Dr. John E. Riley for his years of service to the University. The purpose of the series is to bring Christian scholars to the campus to stimulate thought and

Student Life

understanding especially in the area of relating the religious faith to other fields of knowledge and experience.

The E. E. Wordsworth Holiness Lecture Series has been endowed by the Wordsworth family to honor Rev. E. E. Wordsworth for his years of service to the Church. The purpose of the series is to emphasize the Wesleyan doctrine of perfect love.

The Mangum Missionary Lecture Series was established by the family to honor Dr. T. E. Mangum, Sr., for his dedication to medicine and missions. A missionary-in-residence is scheduled to make the college community aware of the needs of the world.

RESIDENTIAL LIFE

With approximately 60 percent of the total student population living in Northwest Nazarene University's residential halls, the University intends that each student's living environment would serve to enhance the total educational experience while enrolled.

In order to integrate this goal, professionals work directly in each residence hall. These key individuals include the Resident Director (RD), who along with Resident Assistants (RA's) works directly with the students. The staff makes every effort to create an environment conducive to the development of the whole person. Students are given opportunities for leadership along with many social, spiritual, educational, cultural, and recreational activities. They may become involved as a member of the Residence Hall Council, Residence Peer Board, Residential Life Board, or Student Life Executive Committee.

Activities offered in the residence halls include co-curricular events, parties, Bible studies, ski trips, gym nights, wing dates, study groups, prayer times, community service, etc.

Referrals to the Office of Student Development or other University campus support systems are made when students need further assistance in their personal, spiritual, or academic development as a person.

Many special speakers or community resource people interact within the residence halls through presentations, panel discussions, or other co-curricular activities. This enables students to stay abreast of current life and campus issues as they develop.

RESIDENCE HALLS

All unmarried students who are less than 21 years of age and who do not reside with parents/guardians, or approved relatives, are required to live in one of the residence

halls. Northwest Nazarene University's residence halls have a capacity for more than 800 students. Halls are divided into upper and lower division categories.

Students desiring to live off-campus must apply by filling out Off-Campus Housing Forms and must meet established criteria as stated in the handbook. In addition, off-campus students are expected to observe the same general rules of conduct as residential students.

SECURITY

The University Security Office is located next to the Environmental Services building and near Ford Hall. Security provides a transport/escort service to campus personnel between the hours of 8:00pm-2:00am every night of the week.

It is the student's responsibility to remain involved in the safety and security of the NNU community. The University's effort to provide security on campus should not be deemed an assumption of any duty to provide personal protection to students or campus personnel, as each individual remains personally responsible for their own safety. The purpose of security is simply to provide assistance whenever it is available. Each individual must remain alert to their surroundings at all times, and report any unusual behaviors or incidences immediately to the appropriate authorities.

VEHICLES

All students, faculty, and staff must register their vehicles with the Department of Security. You are responsible for acting within NNU standards as it pertains to vehicle use on campus. A complete copy of NNU vehicle privileges and guidelines is available at the Security Office.

FOOD SERVICES

Meals are provided at Northwest Nazarene University by Sodexo, Inc. & Affiliates.

All students living on campus are **required** to have a meal plan. Juniors and Seniors living in NNU apartment-style living may apply for a reduced meal plan.

Guests may eat in the cafeteria by purchasing meals on an individual basis. A guest pass is available at a discounted rate for visiting family members.

STUDENT HEALTH SERVICES AND INSURANCE

The purpose of the Student Health Service is to promote good student health through a program of preventive and therapeutic medicine. A registered nurse is on call 24 hours

Student Life

a day and is on duty during regular hours each day in the Student Health Center located in the Student Center Building.

The university complies with a legal requirement of MMR (mumps/measles/rubella) vaccination. **This is required of all students enrolled for nine or more quarter credits.** Students should also have current immunization of tetanus and polio, and communicate any other special medical information that may be helpful for those serving their needs.

Services Available: The health fee entitles the student to receive consultation with a registered nurse. The following services are available to full-time students: (1) first aid, (2) general medical attention, (3) administration of medication by the university nurse under the standing order of the consulting physician, (4) assistance in securing any necessary medical appointments, (5) accident policy, (6) and assistance with understanding the insurance process and filing accident claims.

Some services are deemed the responsibility of the student and are not included as part of the Student Health Plan, such as dental care (except as the result of an accident), eye glasses, routine physical examinations, hospitalization insurance or expenses over and above the limits of the accident insurance coverage, medication prescribed by a physician, clinical expenses for X-ray and laboratory tests not connected with an accident or hospitalization, and specialist's' fees not covered by the insurance company whether or not referral is made by a university physician.

Insurance: A Health Insurance Policy is available at an additional charge. The period of protection begins the first day of each semester and ends upon completion of the last day of each semester except that continuing students have coverage between semesters and continuing students enrolled in the spring semester have coverage throughout the summer.

ATHLETIC OPPORTUNITIES

Intercollegiate Competition: Northwest Nazarene University is a member of the NCAA Division II Great Northwest Athletic Conference (GNAC) and provides the following sports in its intercollegiate athletic program:

Men - baseball, basketball, cross-country, golf, track & field (indoor & outdoor)

Women - basketball, cross-country, soccer, softball, track & field (indoor & outdoor), volleyball

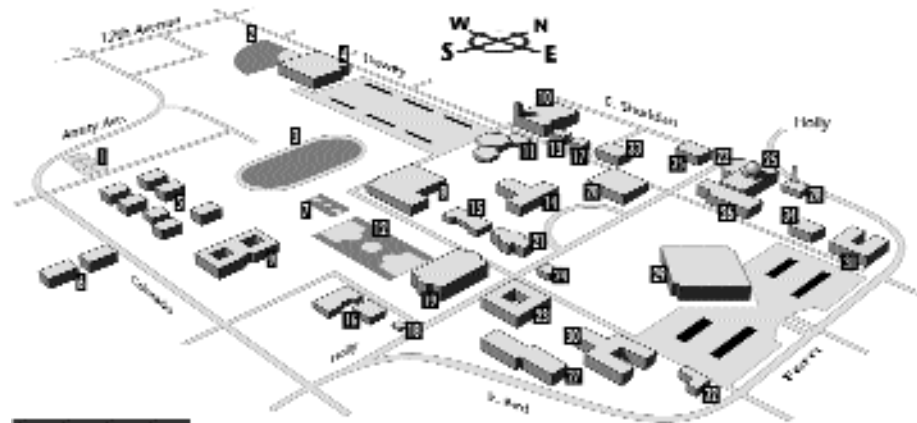
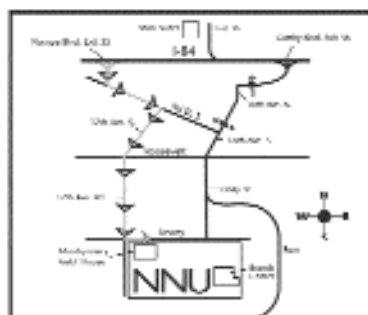
Intramural Program: The athletic department provides the opportunity for all full-time NNU students to participate in a variety of athletic activities. The program is designed to meet the needs of all levels of competition for both men and women. Some of the activities provided are:

Flag Football	Powder Puff Football
Basketball	Softball
Soccer	Tennis
Racquetball	Pickle Ball
Badminton	Table Tennis
Volleyball - Indoor and Outdoor	Ultimate Frisbee

OUR CAMPUS



Northwest Nazarene University



LEGEND

- | | | |
|-------------------------------------|-------------------------------------|-------------------------------|
| 1. Tennis Courts | 13. Social Science Building | 25. Science Building |
| 2. Elmore Vall Baseball Field | 14. Emerson Administration Building | 26. Fine Arts Building |
| 3. Track and Field | 15. Elmore Hall | 27. Culver Hall |
| 4. Montgomery Field House | 16. Environmental Services | 28. Boiler Room Art Gallery |
| 5. Olsen Apartments | 17. Wiley Alumni House | 29. Brandt Center |
| 6. Kirkside Married Student Housing | 18. Campus Security Office | 30. Doukey Hall |
| 7. Kurt Finkbeiner Recreation Area | 19. Ford Hall | 31. Sutherland Hall |
| 8. Student Center | 20. Riley Library | 32. R.R.T.C.K. House |
| 9. Corbett Hall | 21. Williams Hall | 33. Modular Unit |
| 10. College Church | 22. Science Lecture Hall | 34. Hebertson Business Center |
| 11. Wiley Learning Center | 23. Museum Hall | 35. Admissions Office |
| 12. Soccer Field | 24. Lucile Little Prayer Chapel | |



SCHOOL OF ACADEMIC RESOURCES

Dean of the School of Academic Resources: JoAnn Willis

The School of Academic Resources provides support for the entire academic community through the formal learning resources at Northwest Nazarene University. Academic resources provide programs and services, which support academic endeavors, remediate academic hindrances, and guide students in academic pursuits, enabling each to improve the quality of scholarly experience.

The eight departments in this school are Academic Advising and Assessment, Academic Support Center, Career Center, Information Services, John E. Riley Library, Media Services, Military Science (ROTC) and Office of the Registrar.

Resource Department and Faculty:

Academic Advising and Assessment, Ed Castledine, Department Chair

Applied Studies

Liberal Studies

Academic Support Center, Evelyn Bennett, Department Chair

Study Skills Courses

Peer Tutoring Center

Writing Center

Learning Disabilities Advising, Barbara Howard, Program
Director

Career Center, Dianna Gunderson, Department Chair

Information Services, Eric Kellerer, Department Chair

Network Computing

Wireless Technology

CARS

Telecommunications

John E. Riley Library, Sharon Bull, Department Chair

Faculty, Lois Roberts, LaRita Schandorff

Media Services, Duane Slemmer, Department Chair

Classroom A/V Support

Campus and Community A/V Support

Print Services

Military Science (ROTC), Staff

Office of the Registrar, Marilyn Thompson, Registrar

MAJORS

BACHELOR OF ARTS:

APPLIED STUDIES

This program leads to the Bachelor of Arts degree. It provides students with a broad program including course work in an applied area coupled with course work in the humanities, in social sciences, and in mathematics and natural sciences. The program is administered by the Director of Academic Advising in conjunction with major advisors administers the program.

Requirements: 80 credits including 18 in humanities, 18 in social sciences, 16 in mathematics and natural sciences and 28 selected from one or two of the following areas: applied art, business, education, engineering, English (courses in writing or composition which may include EN 102 and EN 202), kinesiology, music (education, theory and applied), Christian education, social work, communication studies. In a single focus applied studies major, 16 credits of the 28 credits must be numbered above 299. In a dual focus applied studies major, 16 of the 28 credits must be numbered above 299, with at least 8 upper division credits taken in EACH applied area.

Notation: If music is selected, no more than four credits of private lessons may apply. If kinesiology is selected, no more than four credits of kinesiology activities or activity labs may apply.

LIBERAL STUDIES

This program leads to the Bachelor of Arts degree. It provides students with the content, methodology, and implications of the basic areas of human knowledge; it fosters the attitude of intellectual curiosity harnessed by moral responsibility; and finally, it encourages a student to think for himself or herself, to be able to participate in life as an autonomous individual. The program is administered by the Director of Academic Advising.

Requirements: 80 credits in one of the three emphases listed below.

Humanities Emphasis

Humanities: 32 credits (including 16 credits numbered above 299)

Social Science: 24 credits

Mathematics and Natural Science: 24 credits

Mathematics and Natural Science Emphasis

Mathematics and Natural Science: 32 credits (including 16 credits numbered above 299)

Humanities: 24 credits

Social Science: 24 credits

Social Science Emphasis

Social Science: 32 credits (including 16 credits numbered above 299)

Humanities: 24 credits

Mathematics and Natural Science: 24 credits



SCHOOL OF BUSINESS

Dean of the School of Business: Ron Galloway

The mission of the School of Business at Northwest Nazarene University is to educate students for the purpose of developing ethical servant leaders who can transform a global society for the kingdom of Christ. We accomplish this goal by providing a strong, scholarly business curriculum rooted in the liberal arts tradition, which is delivered through traditional and innovative programs.

Students in the Department of Business and Economics may pursue an Accounting & Finance major or a Business Administration major. Majors with their respective emphases are listed below.

Accounting & Finance

Accounting Emphasis

Finance Emphasis

Business Administration

Economics/Finance Emphasis

Global Business Emphasis

Management Emphasis

Management of Information Services Emphasis

Marketing Emphasis

DEPARTMENT OF OF BUSINESS AND ECONOMICS

Faculty: David Houghton (Department Chair), Ron Galloway (MBA Director), Jeff Lineman (STEP Director), Peter Crabb, Samuel Dunn, Eric Forseth, Melvin Jolly, Ronald Moore, Bill Russell, Stephen Van der Ploeg, Konya Weber

Business and Economics Department majors participate in an application and monitoring process that continues throughout their college program. Application to Advanced Standing may be made after the student has successfully completed two of the classes listed below as long as the student is also in progress in two other lower division business classes. This application normally occurs during the second semester of the first year.

AC 106 Financial Accounting (3)
AC 107 Managerial Accounting (3)
BU 222 Business Communications (3)
EC 241 Microeconomic Analysis (3)
BU 233 Math for Business & Finance
BU 351 Principles of Marketing

ADMISSION TO ADVANCED STANDING

To qualify for entrance into upper-division courses applicable for completion of degrees within the Department of Business and Economics, students must complete the following requirements for acceptance into advanced standing:

1. Be officially admitted to Northwest Nazarene University
2. Have a minimum cumulative grade point average of 2.500 or better
3. Declare a major in a business-related field
4. Complete the courses listed above
5. Make application for advanced standing
6. Interview with a faculty panel
7. Be accepted by vote of the business faculty

Advanced Standing will be withdrawn if the student fails to enroll at NNU for a period of three consecutive semesters or does not maintain a 2.500 GPA. A student must reapply for advanced standing upon re-admittance to NNU.

MAJORS

BACHELOR OF SCIENCE:

ACCOUNTING & FINANCE

Objective: To provide professional training for students who plan to enter business careers in accounting or finance and also to provide the necessary background for the student who plans to pursue graduate work in these fields.

Administrator: Department Chair, Undergraduate Business Program

Requirements: 75 credits: in accounting, finance, business administration, economics, and mathematics.

AC 106 Financial Accounting (3)
AC 107 Managerial Accounting (3)

AC 351 Intermediate Accounting I ((3)
AC 352 Intermediate Accounting II (3)
AC 396 Internship in Accounting/Finance (3)
BU 217 Computer Applications in Business (3)
BU 222 Business Communications (3)
BU 303 Management Information Systems (MIS) (3)
BU 341 Business Law I (3)
BU 351 Principles of Marketing (3)
BU 364 Principles of Management (3)
BU 371 Financial Management (3)
BU 381 Business Ethics (3)
BU 469 Global Operations Management (3)
BU 498 Senior Seminar in Business (3)
EC 241 Microeconomic Analysis (3)
EC 242 Macroeconomic Analysis (3)
BU 233 Mathematics for Business and Finance (3) or
MA 224 Elementary Stats (3)
Two Electives offered by the Business Dept. (excluding EC 101 and EC 105

Accounting Emphasis (15 prescribed credits)

Provides basic preparation for a person to sit for the CPA examination. Presently fulfills the educational requirements in most states to pursue licensing as a Certified Public Accountant. After December 31, 1999, 150 semester/225quarter credit hours of post high school work will be required to sit for the CPA examination in several northwestern states. For most students this will take five years to complete. Some may wish to take the MBA option.

AC 301 Income Taxation (3)
AC 304 Cost Accounting (3)
AC 402 Auditing (3)
AC 451 Advanced Financial Accounting (3)
BU 342 Business Law II (3)

Suggested Electives:

BU 366 Real Estate (3)
BU 372 Financial Applications (3)
BU 374 Principles of Insurance (3)
BU 471 Advanced Financial Management (3)
MA 151 Survey of Calculus (3)

Finance Emphasis (15 prescribed credits)

Provides basic preparation for careers in corporate finance and financial institutions. Also, provides the necessary background for students planning to pursue graduate work in the field.

BU 366 Real Estate (3); or,
BU 374 Principles of Insurance (3)
BU 372 Financial Applications (3)
BU 376 Investments (3)
BU 471 Advanced Financial Management (3)
EC 415 Financial Economics (3)

Suggested Electives:

AC 301 Income Taxation (3)
AC 451 Advanced Financial Accounting (3)
BU 342 Business Law II (3)
MA 151 Survey of Calculus (3)

BUSINESS ADMINISTRATION

Objective: To provide professional training for students who plan to enter business careers and to provide the necessary background for the student who plans to pursue graduate work in the field of business administration.

Administrator: Department Chair, Undergraduate Business Program

Requirements: 51 credits; completion of the prescribed core courses (51). If an emphasis in Economics/Finance, Management or Marketing is desired, 6 additional prescribed courses (18 credits) are available. If an emphasis in Management Information Systems is desired, 8 additional prescribed courses (28 credits) are available. This will result in a B.S. in Business Administration with an emphasis in the designated area.

Core courses:

AC 106 Financial Accounting (3)
AC 107 Managerial Accounting (3)
BU 217 Computer Applications in Business (3)
BU 222 Business Communications (3)
BU 303 Management Information Systems (MIS) (3)
BU 341 Business Law I (3)
BU 351 Principles of Marketing (3)
BU 364 Principles of Management (3)
BU 371 Financial Management (3)
BU 381 Business Ethics (3)
BU 469 Global Operations Management (3)
BU 498 Senior Seminar in Business (3)
EC 241 Microeconomic Analysis (3)
EC 242 Macroeconomic Analysis (3)

School of Business

BU 233 Mathematics for Business and Finance (3) or

MA 224 Elem. Stats (3)

Two electives offered by the Business Dept. (excluding EC 101 & EC 105)

Economics/Finance Emphasis (18 prescribed credits)

For the student who wishes to enter the field of financial management or financial counseling.

BU 376 Investments (3)

BU 396 Internship In Business (3)

BU 471 Advanced Financial Management (3)

EC 315 Managerial Economics (3)

EC 351 Money and Financial Institutions (3)

EC 405 Global Economics (3)

Management Emphasis (18 prescribed credits)

For the student who desires to concentrate in management and organizational development.

BU 342 Business Law II (3)

BU 365 Human Resource Management (3)

BU 396 Internship In Business (3)

BU 460 Global Business Strategies (3)

BU 461 Entrepreneurship (3)

BU 467 Organizational Behavior (3)

Marketing Emphasis (18 prescribed credits)

For the student who wishes to pursue a career in marketing and/or sales.

BU 353 Marketing Communications (3)

BU 355 Sales Management (3)

BU 358 Retail Management (3)

BU 396 Internship In Business (3)

BU 456 Marketing Metrics (3)

BU 459 Global Marketing (3)

Management Information Systems (MIS) Emphasis (28 prescribed credits)

For the student who wishes to enter management of information systems or plans to pursue graduate work in the field of MIS.

(Core classes: BU 303 Management Information Systems (3) is substituted for CS 217 Computer Applications in Business (3) and BU 111 (3).CS 122 Intro to Computer Science (4)

CS 222 Computer Programming in C++ (4)
CS 275 Data Structures (3)
CS 333 Database Design & Programming (4)
CS 337 Systems Analysis and Design (4)
CS 363 Networks I (3)
CS 364 Networks II (3)
MA 231 Discrete Mathematics (3)

STEP PROGRAM

Objective: The STEP Program offers a Bachelor of Science in Business Administration in an accelerated delivery format for students 23 years of age and older with previous college experience. Please contact the STEP Office for details.

Administrator: Director, STEP Program

Requirements: 51 credits; completion of the prescribed core courses (51).

Core Courses:

AC 206 Financial Accounting (3)
AC 207 Managerial Accounting (3)
BU 317 Computer Applications in Business (3)
BU 303 Management Information Systems (MIS) (3)
BU 322 Business Communications (3)
BU 341 Business Law I (3)
BU 351 Principles of Marketing (3)
BU 364 Principles of Management (3)
BU 371 Financial Management (3)
BU 381 Business Ethics (3)
BU 469 Global Operations Management (3)
BU 498 Senior Seminar in Business (3)
EC 341 Microeconomic Analysis (3)
EC 342 Macroeconomic Analysis (3)
BU 333 Mathematics for Business and Finance (3) or
MA 224 Elem. Stats (3)
Two electives offered by the Business Dept. (excluding EC 101 & EC 105)

BACHELOR OF ARTS:

BUSINESS ADMINISTRATION

Objective: To provide professional training for students who plan to enter business careers and to provide the necessary background for the student who plans to pursue graduate work in the field of business administration.

Administrator: Director, Undergraduate Business Program

Requirements: 59-67credits; completion of the prescribed core courses (51). If an emphasis in Global Business, Management or Marketing is desired, 6 additional prescribed courses (18-20 hours) are available. This will result in a B.A. in Business Administration with an emphasis in the designated area. It may take more than four years for some students to complete the core and emphases because of the language requirement.

Core courses:

- AC 106 Financial Accounting (3)
- AC 107 Managerial Accounting (3)
- BU 217 Computer Applications in Business (3)
- BU 222 Business Communications (3)
- BU 303 Management Information Systems (MIS) (3)
- BU 341 Business Law I (3)
- BU 351 Principles of Marketing (3)
- BU 364 Principles of Management (3)
- BU 371 Financial Management (3)
- BU 381 Business Ethics (3)
- BU 469 Global Operations Management (3)
- BU 498 Senior Seminar in Business (3)
- EC 241 Microeconomic Analysis (3)
- EC 242 Macroeconomic Analysis (3)
- BU 233 Mathematics for Business and Finance (3) or
- MA 224 Elem. Stats (3)
- Intermediate Foreign Language (8 Credits)*

*Prerequisite of beginning language may be required

Two electives offered by the Business Dept. (excluding EC 101 & EC 105)

Global Business Emphasis (19-20 prescribed credits)

For the student who desires to pursue a career in international business.

BU 396 Internship In Business (3)

BU 459 Global Marketing (3)

BU 460 Global Business Strategies (3)

EC 405 Global Economics (3)

SO 203 Cultural Anthropology I (2) and SO 204 Cultural Anthropology (2); or,

SO 224 Problems of Developing World (3)

PS 361 Comparative Politics (4)

Management Emphasis (18 prescribed credits)

For the student who desires to concentrate in management and organizational development.

BU 365 Human Resource Management (3)

BU 342 Business Law II (3)

BU 396 Internship In Business (3)

BU 460 Global Business Strategies (3)

BU 461 Entrepreneurship (3)

BU 467 Organizational Behavior (3)

Marketing Emphasis (18 prescribed credits)

For the student who wishes to pursue a career in marketing and/or sales.

BU 353 Marketing Communications (3)

BU 355 Sales Management (3)

BU 358 Retail Management (3)

BU 396 Internship In Business (3)

BU 456 Marketing Metrics (3)

BU 459 Global Marketing (3)

MINOR

BUSINESS ADMINISTRATION

Requirements: 18 credits in Business, Accounting, or Economics, 9 of which must be upper division. Students must meet with a Business Department advisor to develop a program of study. EC 101 Personal Finance and EC 105 Analysis of Economic Issues may not be used to fulfill the Business Minor requirements.

SCHOOL OF EDUCATION, SOCIAL WORK, AND COUNSELING

Dean of the School of Education, Social Work and Counseling: Dennis Cartwright

The School of Education, Social Work, and Counseling prepares professionals to serve the educational, social service and counseling needs of communities. These accredited programs are delivered in an environment that honors Christ and Christian principles through undergraduate and graduate programs leading to professional licensure/certification. Professional development activities are provided for practicing professionals.

The three departments in this school include: Education, Social Work, and Counselor Education. Programs available in the school by departments are as follows:

Education

Undergraduate - Elementary Education

Secondary Education

Multiple programs of preparation to
teach at the secondary level

Graduate -

Curriculum and Instruction

Curriculum and Instruction ELL Emphasis

Education Leadership

Exceptional Child

Social Work

Undergraduate - Social Work

Graduate - Social Work (MSW)

Counselor Education

Graduate -

School Counseling

Marriage and Family Counseling

Community Counseling

Descriptions of majors, areas of emphasis, minors, and other programs are found in this chapter, while course descriptions are found at the end of the catalog, arranged alphabetically by discipline.

DEPARTMENT OF EDUCATION

Faculty: Joy Bielenberg, Karen Blacklock (Department Chair), Jan Cantrell, Dennis Cartwright, Janet Harman, Ron Manley, Phyllis McMillin, Michael Poe, Duane Slemmer, Karen Smucker.

Mission: The mission of the Department of Education at Northwest Nazarene University is to be a Christ-centered unit that develops capable, compassionate educators who are determined and prepared to meet the educational needs of young people in a changing world. This mission drives our work in undergraduate, graduate, and continuing education programs.

Conceptual Framework: Northwest Nazarene University offers programs that prepare candidates to be effective change agents in school and community settings. These programs are built upon a Critical/Social Model of teacher preparation. The conceptual framework for this model is:

- A. **Citizenship/Democratic Society** - Teachers play a critical role in promoting democratic values, examining and challenging social inequities in schools and communities, facilitating equal voice and equal access for all students and parents, and formulating responses to local and global issues in education.
- B. **Liberal Arts/Continuing Learning** - Teachers value learning, evidence breadth of knowledge, and demonstrate an inquiry-based habit of mind. They are effective communicators who question educational assumptions and use educational research to stimulate reflection and inform classroom practice.
- C. **Professional Knowledge and Skills** - Teachers apply theories, strategies, frameworks, and research in teaching and learning to challenge, interest, accommodate, and assess a diverse student population. They demonstrate expertise in managing the classroom in a manner that stimulates learning and creates a positive, productive environment. They use reflection to improve teaching and learning.
- D. **Role of Schooling** - Teachers possess a perspective of the historical and philosophical purposes of schools, as well as an understanding of legal and societal influences. They use their knowledge to make decisions about their teaching and to work to improve school conditions and educational opportunities for all.

Learner-Centered Approach

To facilitate mastery of the knowledge base and outcomes, the teacher education program is built on learner-centered principles. This means that all learners, both faculty and students, collaborate to provide a learning community that encourages individuals to build foundations on which they can create meaningful, coherent uses of knowledge.

ADMINISTRATOR

The Chair is the administrator of the Education Department. The Director of Teacher Education has oversight responsibilities for the educator programs across campus.

ACCREDITATION

The teacher education program is accredited by the Northwest Association of Schools and Colleges and the National Council for Accreditation of Teacher Education (NCATE). The program is approved by the Idaho State Board of Education using Idaho standards.

Northwest Nazarene University is a member of the American Association of Colleges for Teacher Education and the Association of Independent Liberal Arts Colleges of Teacher Education.

TRANSFER AND POST-BACCALAUREATE STUDENTS

It is to the advantage of transfer students to contact an NNU advisor in the education department even while attending another college or working on another degree so they can be assisted in selecting and sequencing coursework that will meet NNU requirements. This can minimize the chance of inadvertently extending the length of their program at NNU.

ADMISSION TO TEACHER EDUCATION

Application for admission to teacher education should be made at the beginning of the semester following completion of ED 96 (Field Experience). Decision factors include cumulative GPA (2.75 or better cumulative GPA), ACT/Compass scores, and disposition reports. The Department, with the assistance of the Teacher Education Council, conducts interviews of candidates. Candidates who are not enrolled at NNU for two consecutive semesters need to reapply for admission to the Teacher Education Program when they return.

MINIMUM STANDARDS FOR ADMISSION TO TEACHER EDUCATION

1. *Scholarship.* A cumulative grade point average of 2.75 or above must have been earned in university work or a grade point average of 3.00 or higher earned in the most recent 32 semester credits. GPA is computed only on work taken at NNU.

2. Integrity of character and professional aptitude. This is based on the student's performance in campus life activities, field experience, personal interviews, recommendation of the major advisor, test data, and disposition reports.

3. Satisfactory test performance. The basic skills tests must be taken and the required scores reached or exceeded for full admission to the program. The specific test and minimum scores are specified in the Teacher Education Handbook. (**Note:** There are fees associated with taking most standardized tests.)

4. Residence. One semester in residence at NNU must precede admission to the program.

ADMISSION TO METHODS AND READING COURSES

Prerequisites for admission to the reading courses and secondary methods courses are admission to the Education Program, maintaining a 2.75 or better cumulative GPA and satisfactory ratings on dispositions for teaching.

Secondary Professional Development Block I includes ED 351 Teaching Strategies in the Secondary School and one or more content-specific methods courses. The student is required to enroll in the methods course for the teaching area or first teaching field. The student may also choose to enroll in the methods course for the second teaching field. Practicum experience in a local secondary school is included.

ADMISSION TO METHODS AND STUDENT TEACHING (SECONDARY)

Secondary Professional Development Block II includes ED 485 Secondary School Start-up, ED 457 Classroom Management, ED 486 or ED 487 Student Teaching, and ED 492 Foundations of Education. Although School Start-up must be taken in the fall of the year in which student teaching is scheduled, the other three components of the block are taken concurrently in either first or second semester.

Admission to student teaching occurs after completion of ED 351, Teaching Strategies in the Secondary School. Criteria for admission include:

1. Maintaining a 2.75 or better cumulative GPA
2. Passing state test of content (PRAXIS II test).
3. Demonstrating ability in planning, instruction, assessment, and student management and motivation during methods practicum, and
4. Satisfactory ratings on dispositions for teaching.

ADMISSION TO INTERNSHIP (ELEMENTARY)

Elementary education majors experience a full-year internship in a local elementary Professional Development School (PDS). This internship consists of university

School of Education, Social Work and Counseling

coursework integrated with K-6 classroom experience. Courses in the internship year include 442, 443, 444, 445, 446, 481, and 492.

Admission to the internship year occurs at the end of the semester in which Reading in the Content Areas (ED 326) is taken. Criteria for admission include:

1. Maintaining a 2.75 or better cumulative GPA
2. Passing state test of content knowledge (PRAXIS II test).
3. Demonstrating ability in planning, instruction, assessment, and student management and motivation during reading practicum, and
4. Satisfactory ratings on dispositions for teaching.

PROGRAM REQUIREMENTS

Northwest Nazarene University offers Idaho proved programs that lead to the following teaching certifications:

Standard Elementary
Standard Secondary

To qualify for recommendation for certification by the Idaho State Department of Education, a candidate must meet the following standards:

1. Complete all requirements for a baccalaureate degree.
2. Complete requirements of the teacher education program in effect at the time of admission to teacher education and any additional requirements if demanded by changes in the standards of state regulatory agencies.
3. Complete all education courses and content courses in the elementary major and secondary teaching area of fields with a grade of C (2.0) or better.
4. Maintain a 2.75 or better cumulative GPA.
5. Pass the PRAXIS II test in the appropriate content area(s).
6. Pass one of the Idaho State Board approved technology assessments.
7. Elementary: Pass the Idaho Comprehensive Literacy Assessment (ICLA).
8. Secondary: Complete a single teaching area or a first teaching field and a second teaching field.
 - a. Approved teaching area i.e., art-education, biology-education, English-education, mathematics-education, music-education, kinesiology-education, social science-education.
 - b. Approved first teaching field i.e., biology-education, chemistry-education, English-education, history-education, mathematics-education, kinesiology-education, physical science-education.
 - c. Second teaching field i.e., art, biology, chemistry, computer science, English, Spanish, health, history, mathematics, music, kinesiology,

physical science, physics, psychology, social science, sociology, and communication studies.

9. Receive a favorable vote of the Teacher Education Council for recommendation for certification.

To be recommended for certification in another state, a candidate must complete an Idaho approved teacher education program. Deviations from the teaching major or certification requirements must be authorized by the Department Chair.

Deviations from the teaching major or license requirements must be authorized by the Department Chair.

Coaching Emphasis

Those interested in coaching or becoming athletic trainers may find suggested courses in the Kinesiology-Education section.

MAJORS

BACHELOR OF ARTS:

SECONDARY EDUCATION (see requirements under content area listings)

ELEMENTARY EDUCATION

Objective: To prepare students to teach in the elementary grades (K-8) and qualify them for certification.

Administrator: Chair, Department of Education

Requirements: 53 credits in professional education; 50 in general education

PROFESSIONAL EDUCATION COURSES:

ED 110 Introduction to Teaching (1)*

ED 211 Educational Psychology (3)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)*

ED 315 Education of Exceptional Child (3)

ED 324 Management and Motivation in Inclusive Elementary Classrooms (3)

School of Education, Social Work and Counseling

ED 325 Fundamentals of Reading (3)*

ED 326 Teaching Reading in the Content Areas: Elementary (3)*

ED 331 Teaching the Bilingual/Bicultural Child (1)

Select one of the following:

ED 337 Teaching Health in the Elementary Schools (2)

ED 338 Teaching Physical Education in the Elementary Schools (2)

ED 442 Internship: Methods for Instruction and Classroom Management I (6)*

ED 443 Internship: Methods for Instruction and Classroom Management II (6)*

ED 444 Internship: Clinical Experiences in the Elementary School I (6)*

ED 445 Internship: Clinical Experiences in the Elementary School II (6)*

ED 446 At-Risk Readers (3)*

ED 481 Elementary School Start-Up (1)*

ED 492 Foundations of Education (2)*

*Courses must be taken at Northwest Nazarene University.

All education courses must be completed with a grad of C (2.0) or better.

GENERAL EDUCATION COURSES:

Psychology

PY 155 Introduction to Psychology (3)

Communicative Arts

EN 102 English Composition (3)

EN 212 English Grammar and Usage (2)

EN 202 Research Writing and Critical Thinking (3)

CO 121 Fundamentals of Speech (3); or,

CO 321 Advanced Public Speaking (3) or Speech proficiency exam

Literature 6 credits including:

EN 374 Children's Literature (3)

Social Science 8 elective history credits including:

at least one U.S. **and** one non-U.S. history course

Geography (4)

Mathematics

MA 101 Fundamental Mathematical Structures I (3)

MA 102 Fundamental Mathematical Structures II (3)

Science – 8 elective science credits including one biology and physical science course and one lab.

Fine Arts – Art history/Music literature elective (3)

Health - Fundamentals of Wellness (1)

All courses required for the major must be completed with a grade of C (2.0) or better.

DEPARTMENT OF SOCIAL WORK

Faculty: Jerry Hull (Department Chair and Director of the B.A. program), Mary Curran (Director of the MSW program), LeAnn Stensgaard (Field Coordinator for the B.A. program), Mamie Oliver (Field Coordinator for the MSW program), Joy Kyamunyogonya, Al Sanchez, Terri Theriot

MAJOR

BACHELOR OF ARTS:

SOCIAL WORK

Mission of the Department: The primary program purpose is to prepare students for beginning practice in the profession of social work.

Admission to Methods Courses: To qualify for entrance into upper division courses applicable for completion of a degree within the Department of Social Work, students must complete the following requirements for acceptance to take methods courses:

1. Be officially admitted to Northwest Nazarene University
2. Have a minimum cumulative grade point average of 2.00
3. Declare a major in Social Work
4. Complete SW 172, SW 211, and SW 296 or SW 297
5. Be enrolled in or have taken SW 285
6. Make application to take methods courses
7. Be interviewed by the Social Work faculty
8. Be accepted by the Social Work faculty to take methods courses

The student will be placed on probationary status if a minimum cumulative grade point average of 2.00 is not maintained.

Administrator: Chair, Department of Social Work

Accreditation: This baccalaureate level social work program is accredited by the Council on Social Work Education.

School of Education, Social Work and Counseling

Requirements: 63-66 credits including 42 in social work.

Core Requirements:

- SW 172 Social Welfare in Contemporary Society (3)
- SW 211 Introduction to Social Work (3)
- SW 285 Human Behavior and the Social Environment (4)
- SW 296 Field Experience in Social Work (1); or,
SW 297 Urban Field Experience (1)
- SW 325 Substance Abuse, Prevention, and Intervention (3); or,
SW 335 Child Welfare Services (3); or,
SW 345 Gerontology and Geriatric Social Work (3)
- SW 355 Social Work Methods I (4)
- SW 356 Social Work Methods II (4)
- SW 359a,b Skills Practicum (1 each)
- SW 375 Social Welfare Policy (3)
- SW 397 Social Work Research and Statistics (4)
- SW 494 Topics in Social Work (1)
- SW 496a,b Advanced Practicum in Social Work (4 each)
- SW 498a,b Senior Field Seminar (1 each)

Foundation Courses:

- SO 155 Introduction to Sociology (3); or,
SO 203 Cultural Anthropology I (2)
- SO 318 Race, Class and Ethnicity (3); or,
EN 427 Minority Voices in American Literature (3); or,
A second year foreign language course (4)
- PY 155 Introduction to Psychology (3)
- PY 345 Abnormal Psychology (3)
- PY 472 Group Theory and Process (3)
- BI 106 Human Biology (4)
- PS 103 Foundations of Politics (4); or,
EC 105 Analysis of Economic Issues (3)

MINOR:

SOCIAL WELFARE

Requirements: 20/21 credits in social work of which 9 must be upper division

- SW 172 Social Welfare in Contemporary Society (3)
- SW 211 Introduction to Social Work (3)
- SW 285 Human Behavior and the Social Environment (4)
- SW 296 Field Experience in Social Work (1); or,
SW 297 Urban Field Experience (1)

Three of the following:

- SW 325 Substance Abuse, Prevention, and Intervention (3); or,
- SW 335 Child Welfare Services (3); or,
- SW 345 Gerontology and Geriatric Social Work (3); or,
- SW 375 Social Welfare Policy (3); or,
- SW 397 Social Work Research and Statistics (4)

SCHOOL OF THEOLOGY AND CHRISTIAN MINISTRIES

Dean of the School of Theology and Christian Ministries: Ralph Neil

The School of Theology and Christian Ministries provides programs that may lead to vocations in ministry or Christian service. These programs also provide undergraduate preparation that may lead to additional study at a seminary or other graduate school.

The two departments in this School are Philosophy and Religion. Majors available in the School, by department:

Department of Philosophy

Philosophy

Philosophy and Religion

Department of Religion

Missions

Cross-Cultural Emphasis

Business Emphasis

Education Emphasis

Leadership Emphasis

Religion-Ministry

Pastoral Ministries Emphasis

Adult Ministries Emphasis

Children's Ministries Emphasis

Christian Education Emphasis

Church Administration Emphasis

Worship Leadership Emphasis

Youth Ministries Emphasis

Religious Studies

Social Service Ministries

Leadership Emphasis

Ministries Emphasis

Compassionate Ministries Emphasis

Descriptions of majors, areas of emphasis, minors, and other programs are found in this chapter, while course descriptions are found at the end of the catalog, arranged alphabetically by discipline.

The purpose of the School of Theology and Christian Ministries is fourfold:

1. To contribute the biblical, theological, and philosophical components of NNU's liberal arts education which seeks the development of Christian character,
 - a. By helping all students arrive at a knowledge of the Bible, the rich heritage of the Christian faith, and the values of the Christian life;
 - b. By helping all students develop a world view consonant with both reason and revelation;
 - c. By helping all students develop a sense of obligation with respect to applying Christian principles to contemporary socio-cultural problems; and
 - d. By encouraging all students toward spiritual and intellectual maturity.
2. To prepare both lay and ministerial students for various types of Christian ministry.
3. To prepare students for advanced study in religion or philosophy at a seminary or other graduate school.
4. To enrich the present ministry of the church.

The first purpose is achieved through the required courses in NNU's general education curriculum. All students are required to take:

BL111 Introduction to Biblical Studies,

TH211 Introduction to Christian Theology,

An upper-division elective course in biblical literature or theology, and

At least one elective course in philosophy.

The second purpose is achieved through majors and minors that lead toward vocational or lay ministry and through the program of ministerial preparation. The two departments in the School work together cooperatively to achieve this purpose by contributing courses and providing guidance and encouragement to ministerial students. The third purpose is achieved through majors that lead toward graduate study. The fourth purpose is achieved through graduate programs (M.A. and M.Min.), continuing education programs, church resource services, and online theological resources.

MINISTERIAL PREPARATION

The School of Theology and Christian Ministries provides oversight and guidance to all students preparing for Christian ministry. Ministerial preparation includes academic achievement, personal development, and divine calling. Each major or minor sets forth a program of academic achievement. The student's progress is monitored by the administrator of the major or minor. Matters of personal development are treated

School of Theology and Christian Ministries

in a series of courses (PT171, 296, 321, 396, 496) spread throughout the student's years of enrollment. Such matters as a call to ministry, personal religious experience, self-understanding and character development, professional conduct, avenues of Christian service, and ministerial licensing are discussed with each student. These courses include many hours of field experience and internship in a ministry setting, as well as personal interviews by members of the faculty and area pastors.

Students who desire to pursue a ministerial vocation may apply for ministerial standing after the first semester of their sophomore year. Students must meet the following requirements for ministerial standing:

1. Have a minimum cumulative GPA of 2.50 or better;
2. Declare a major or minor in the School of Theology and Christian Ministries;
3. Complete the following courses:
 - BL111 Introduction to Biblical Studies (4)
 - CE181 Introduction to Christian Education (3)
 - PT171 Introduction to Christian Ministry (1)
 - PT296 Field Experience in Christian Ministry (1)
 - PT321 Spiritual Formation and Christian Discipleship (2)
 - TH211 Introduction to Christian Theology (4);
4. Complete a psychological profile;
5. Make application for ministerial standing;
6. Submit a recommendation from the student's home pastor and another from the pastor where the student has completed a field experience;
7. Receive a favorable recommendation from a faculty interview; and
8. Receive a favorable vote by the faculty of the School.

After students have been accepted into ministerial standing, the School will help them create a portfolio of essays, transcripts, and recommendations for use in applying for a ministerial license, a ministerial position, and/or acceptance into seminary.

Ministerial standing will be withdrawn if the student fails to enroll at NNU for a period of three consecutive semesters, or does not maintain a 2.50 cumulative GPA, or receives an unfavorable recommendation from a faculty interview or field experience/internship. A student must receive a favorable recommendation from the Dean of the School and must wait one semester before re-applying for ministerial standing.

CORE OUTCOMES

A variety of majors and minors are available to prepare students for vocations in ordained and non-ordained ministry. The curriculum for those seeking ordination in the Church of the Nazarene (Religion-Ministry major) focuses on four outcomes.

1. **Content:** Ministers will have knowledge of the content and interpretation of the Old and New Testaments, the theology of the Christian faith, the doctrine of holiness, the history and mission of the church, and the history and polity of the Church of the Nazarene.
2. **Competency:** Ministers will possess abilities in oral and written communication, analytical thinking, management and leadership, finance and church administration, preaching, pastoral care and counseling, worship leadership, evangelism, and Christian education.
3. **Character:** Ministers will have knowledge of Christian ethics, spiritual formation, human development, and marriage and family life; and they will demonstrate personal growth in their own character and spirituality.
4. **Context:** Ministers will have knowledge of the historical, social, and contemporary environment in which they minister and be able to relate the mission of the church to that context.

The majors for those planning to attend seminary focus on the same four outcomes, but to a lesser extent. Because of the increasing complexity of ministry in modern society, the School and the Church of the Nazarene strongly encourage all ministerial students to prepare themselves well and complete a seminary education if possible. In cases where that is uncertain, the student may elect the Religion-Ministry major and proceed directly into ministry following graduation.

DEPARTMENT OF PHILOSOPHY

Faculty: Edwin Crawford (chair), Ralph Neil, Thomas Oord, Robert Thompson.

Objectives: (1) enable students to identify and apply principles of logical thought; (2) help students to read, write, speak, and listen effectively; (3) enable students to develop a world view consonant with both reason and revelation; (4) enable students to responsibly apply moral principles, informed by Christian values, to contemporary socio-cultural problems; and (5) enable students to identify and relate significant philosophical foundations of Western thought, culture, religion, and science.

MAJORS

BACHELOR OF ARTS:

PHILOSOPHY MAJOR

Objective: This major prepares students who want to be seriously involved in philosophic study either as a primary discipline or as foundational work for related

School of Theology and Christian Ministries

studies. It will prepare students for graduate work in philosophy, religion, bioethics, law, and other fields.

Administrator: Edwin Crawford

Requirements: 27 credits of which 21 shall be numbered above 299.

PL 201 Introduction to Philosophy (3)

PL 202 Ethics (3)

PL 301 History of Ancient and Medieval Philosophy (3)

PL 302 History of Modern Philosophy (3)

PL 306 Critical Reasoning (2)

PL 307 Formal Logic (2)

PL 421 Contemporary Philosophy (3)

Elective upper division philosophy credits (8)

Recommended:

Completion of the intermediate level of a foreign language.

PHILOSOPHY AND RELIGION MAJOR

Objective: This major prepares students who wish to pursue graduate studies in religion, philosophy of religion, or a related field. Entrance requirements for specific graduate schools may be met through proper course selection. Students will be encouraged to spend at least one semester abroad or in an off-campus program.

Administrator: Robert Thompson

Requirements: 38 credits

BL 311 Old Testament Interpretation (3)

BL 312 New Testament Interpretation (4)

BL 498 Noncanonical Writings and New Testament Interpretation (2)

CH 361 History of the Christian Tradition I (3)

CH 362 History of the Christian Tradition II (3)

PL 202 Ethics (3)

PL 301 History of Ancient and Medieval Philosophy (3)

PL 302 History of Modern Philosophy (3)

One of the following two:

PL 306 Critical Reasoning (2)

PL 307 Formal Logic (2)

PL 421 Contemporary Philosophy (3)

PL 452 Philosophy of Religion (3)

TH 453 Christian Theology I (3)

TH 454 Christian Theology II (3)

Recommended: Foreign or cross-cultural educational experience.

DEPARTMENT OF RELIGION

Faculty: Wendell Bowes (Department Chair), Edwin Crawford, Diane Leclerc, George Lyons, Mark Maddix, Ralph Neil, Thomas Oord, Carol Rotz, Robert Thompson, Gary Waller, Missionary-in-Residence

The purpose of the Department of Religion is:

1. To help all students arrive at a knowledge of the Bible and the major doctrines of the Christian faith;
2. To help all students develop skills of theological reflection and application;
3. To prepare both lay and ministerial students for various types of Christian ministry; and
4. To prepare students for advanced study at the seminary level.

The Department achieves this purpose by providing:

1. Courses in biblical literature and theology that are needed by NNU's general education program; and
2. Majors, minors, and curriculum in biblical literature and languages, Christian education, church history, practical theology, and theology that are needed for ministerial preparation and/or graduate study.

MAJORS

BACHELOR OF ARTS:

MISSIONS MAJOR

Objective: This major prepares students to minister in international cross-cultural settings. It provides a wide range of foundational knowledge and skills and emphasizes a global world view. The School will help students work through the appropriate steps leading to appointment as missionaries by the Church of the Nazarene or other mission agencies. The major does not meet ordination requirements in the Church of the Nazarene. In most cases, students will need to complete an additional 20 credits to meet ordination education requirements. Seminary is recommended for further preparation.

Administrator: Carol Rotz

School of Theology and Christian Ministries

Requirements: 59 credits in the following core plus one emphasis (12 credits) or a minor in the School of Theology and Christian Ministries approved by the administrator.

- BL311 Old Testament Interpretation (3)
- BL312 New Testament Interpretation (4)
- CE 181 Introduction to Christian Education (3)
- CH142 History of Christian Missions (2)
- CH241 History and Manual, Church of the Nazarene (2) (Non-Nazarene students may select an alternate course in church history)
- CH353 History of the Wesleyan-Holiness Tradition (2)
- CH362 History of the Christian Tradition II (3)
- CO203 Interpersonal Communication (3)
- GK101 Introduction to New Testament Greek (1)
- HB101 Introduction to Biblical Hebrew (1)
- PT171 Introduction to Christian Ministry (1)
- PT271 Introduction to Missiology (3)
- PT296 Field Experience in Christian Ministry (1)
- PT321 Spiritual Formation and Christian Discipleship (2)
- PT371 Preaching (2)
- PT394 Topics in Practical Theology: Missions (2)
- PT396 Field Experience in Christian Ministry (1)
- PT471 Church Growth and Evangelism (3)
- PT496 Internship in Ministry (3)
- PY155 Introduction to Psychology (3)
- SO203 Cultural Anthropology I (2)
- TH354 Christian Holiness (2)
- TH356 World Religions: Asian Traditions (2)
- TH357 World Religions: Western Traditions (2)
- TH453 Christian Theology I (3)
- TH454 Christian Theology II (3)

Recommended:

- 2-3 years of a foreign language
- EN312 Linguistics: Structure of English (3)
- EN342 Foreign Literature in Translation (3)
- GE105 Introduction to Geography (4)
- HS102 World Civilization, Modern Era (4)
- SO155 Introduction to Sociology (3)
- SO225 Issues of Developing Nations I (3)

Cross-Cultural Emphasis

Requirements: 12 credits (total credits: 71)

- OC394 Off campus semester abroad

Business Emphasis

Requirements: 12 credits (total credits: 71)

AC106 Financial Accounting (3)

BU217 Computer Applications in Business (3)

BU233 Mathematics for Business and Finance (3)

CS206 Computer System Maintenance (3)

Recommended:

BU364 Principles of Management (3)

Education Emphasis

(This emphasis does not qualify students to teach in most contexts. Further study would be necessary.)

Requirements: 12 credits (total credits: 71)

CE381 Children's Ministries (2)

CE382 Youth Ministries (2)

CE383 Adult Ministries (2)

CE294 Workshop in Special Ministries (1)

ED211 Educational Psychology (3)

PT222 Instructional Bible Study (2)

Leadership Emphasis

Requirements: 12 credits (total credits: 71)

CO201 Small Group Communication (3)

PL306 Critical Reasoning (2)

PT322 Worship Leadership (2)

PT481 Leadership and Administration (2)

PT496 Special Ministries Internship (3)

RELIGION-MINISTRY MAJOR

Objective: This major prepares students to go directly into ministry after graduation. The Pastoral Ministries and Youth Ministries emphases provide the educational requirements for ordination as an elder in the Church of the Nazarene. The other emphases--Adult Ministries, Children's Ministries, Christian Education, Church Administration, and Worship Leadership--provide the educational requirements for ordination as a deacon in the Church of the Nazarene. Other denominations' requirements may be met through proper selection of elective courses.

Requirements: 44 credits in the core plus one area of emphasis.

School of Theology and Christian Ministries

Religion Core:

- BL 311 Old Testament Interpretation (3)
- BL 312 New Testament Interpretation (4)
- CE 181 Introduction to Christian Education (3)
- CH 241 History and Manual, Church of the Nazarene (2) (Non-Nazarene students may select an alternate course in church history)
- CH 361 History of the Christian Tradition I (3)
- CH 362 History of the Christian Tradition II (3)
- GK 101 Introduction to New Testament Greek (1)
- HB 101 Introduction to Biblical Hebrew (1)
- PL 202 Ethics (3)
- PT 171 Introduction to Christian Ministry (1)
- PT 296 Field Experience in Christian Ministry (1)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 371 Preaching (2)
- PT 396 Field Experience in Christian Ministry (1)
- PT/CE 481 Leadership and Administration I (2)
- PT/CE 482 Leadership and Administration II (2)
- TH 354 Christian Holiness (2)
- TH 452 Theology of the Church (2)
- TH 453 Christian Theology I (3)
- TH 454 Christian Theology II (3)

Pastoral Ministries Emphasis: (Elder Track)

Administrator: Wendell Bowes

Requirements: 35 credits (total credits: 79)

- BL 400 level Old Testament course (2)
- BL 400 level New Testament course (2)
- CH 142 History of Christian Missions (2)
- CH 353 History of the Wesleyan-Holiness Tradition (2)
- GK 111, 112 Elementary New Testament Greek (4 each)
- PL 306 Critical Reasoning (2)
- PT 322 Worship Leadership I (2)
- PT 378 Pastoral Care and Counseling I (2)
- PT 379 Pastoral Care and Counseling II (2)
- PT 471 Church Growth and Evangelism (3)
- PT 496 Internship in Ministry (3)
- PY 155 Introduction to Psychology (3)
- SO 203 Cultural Anthropology I (2)

Note: Some students may require more than 8 semesters to complete this program.

Recommended:

- MU 320 Worship Leadership II (2)

Adult Ministries Emphasis: (Deacon Track)

Administrator: Mark Maddix

Requirements: 20 credits (total credits: 64)

- BL Upper Division Elective Course (2)
- CE 383 Adult Ministries (2)
- CE 496 Special Ministries Internship (3)
- PL 306 Critical Reasoning (2)
- PT 222 Instructional Bible Study (2)
- PT 471 Church Growth and Evangelism (3)
- PY 210 Lifespan Development (3)
- SW 345 Gerontology and Geriatric Social Work (3)

Recommended:

- CE 275 Technology in the Classroom (3)

Children's Ministries Emphasis: (Deacon Track)

Administrator: Mark Maddix

Requirements: 27 credits (total credits: 71)

- BL Upper Division Elective Course (2)
- CE 286 Camping and Recreation Ministries (2)
- CE 381 Children's Ministries (2)
- CE 496 Special Ministries Internship (3)
- MU 320 Worship Leadership II (2)
- PL 306 Critical Reasoning (2)
- PT 222 Instructional Bible Study (2)
- PT 322 Worship: Leadership I (2)
- PT 378 Pastoral Care and Counseling I (2)
- PT 379 Pastoral Care and Counseling II (2)
- PT 471 Church Growth and Evangelism (3)
- PY 210 Lifespan Development (3)

Recommended:

- CE 275 Technology in the Classroom (3)

Christian Education Emphasis: (Deacon Track)

Administrator: Mark Maddix

Requirements: 24 credits (total credits: 68)

- BL Upper Division Elective Course (2)
- CE 496 Special Ministries Internship (3)
- PL 306 Critical Reasoning (2)
- PT 222 Instructional Bible Study (2)

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PT 471 Church Growth and Evangelism (3)

PY 210 Lifespan Development (3)

PY 211 Educational Psychology (3)

CE 381 Children's Ministries (2)

CE 382 Youth Ministries (2)

CE 383 Adult Ministries (2)

Recommended:

CE 275 Technology in the Classroom (3)

Church Administration Emphasis: (Deacon Track)

Administrator: Mark Maddix

Requirements: 23 Credits (total credits: 67)

BU 353 Marketing Communications (3)

BU 364 Principles of Management (3)

BU 365 Human Resource Management (3)

BU 371 Financial Management (3)

BU 467 Organizational Behavior (3)

CE 496 Special Ministries Internship (3)

PL 306 Critical Reasoning (2)

PT 471 Church Growth and Evangelism (3)

Worship Leadership Emphasis: (Deacon Track)

Administrator: Gary Waller

Requirements: 25 credits (total credits: 69)

AR 119 Introduction to the Visual Arts (3)

CE 496 Special Ministries Internship (3)

CO 232 Readers Theater (1)

CO 260 Introduction to Directing (3)

MU 338 Church Music Administration (3)

MU 352 Church Music for Children and Youth (2)

MU 451 Music in Worship (3)

PT 222 Instructional Bible Study (2)

PT 322 Worship Leadership I (2)

PT 471 Church Growth and Evangelism (3)

Youth Ministries Emphasis: (Elder Track)

Administrator: Gary Waller

Requirements: 30 credits (total credits: 74)

BL Upper-Division Elective Course (2)

CE 286 Camping and Recreation Ministries (2)

- CE 382 Youth Ministries (2)
- CE 496 Special Ministries Internship (3)
- MU 320 Worship Leadership II (2)
- PL 306 Critical Reasoning (2)
- PT 222 Instructional Bible Study (2)
- PT 322 Worship: Leadership I (2)
- PT 378 Pastoral Care and Counseling I (2)
- PT 379 Pastoral Care and Counseling II (2)
- PT 471 Church Growth and Evangelism (3)
- PY 210 Lifespan Development (3)
- PT 375 Urban Ministries (3)

Recommended:

- CE 275 Technology in the Classroom (3)
- One Education course (1-3)

RELIGIOUS STUDIES MAJOR

Objective: This program prepares students for seminary education. It includes foundational courses that are essential for graduate work at the seminary level. It meets all the recommended admission requirements established by the Association of Theological Schools in the United States and Canada. The Nazarene Theological Seminary is accredited by this association. This major does not meet ordination education requirements in the Church of the Nazarene. In most cases, students will need to complete an additional 30 credits to meet ordination education requirements. Students who plan to go directly into ministry should choose the Religion-Ministry major.

Administrators: George Lyons and Diane Leclerc

Requirements: 54 credits

- BL 311 Old Testament Interpretation (3)
- BL 312 New Testament Interpretation (4)
- CE 181 Introduction to Christian Education (3)
- CH 241 History and Manual, Church of the Nazarene (2)

One of the following two:

- CH 361 History of the Christian Tradition I (3)
- CH 362 History of the Christian Tradition II (3)
- GK 101 Introduction to New Testament Greek (1)
- GK 111 Elementary New Testament Greek (4)
- GK 112 Elementary New Testament Greek (4)
- GK 201 Intermediate New Testament Greek (3)
- HB 101 Introduction to Biblical Hebrew (1)
- PL 201 Introduction to Philosophy (3)

One of the following two:

PL 301 History of Ancient and Medieval Philosophy (3)

PL 302 History of Modern Philosophy (3)

PT 171 Introduction to the Christian Ministry (1)

PT 296 Field Experience in Christian Ministry (1)

PT 321 Spiritual Formation and Christian Discipleship (2)

PT 371 Preaching (2)

PT 396 Field Experience in Christian Ministry (1)

PT 481 Leadership and Administration I (2)

PY 155 Introduction to Psychology (3)

TH 354 Christian Holiness (2)

TH 453 Christian Theology I (3)

TH 454 Christian Theology II (3)

SOCIAL SERVICE MINISTRIES MAJOR

Objective: This major prepares students to work in local parishes, or in Christian centers of compassion, or in centers of social service both Christian and secular. Students will choose one of three options to complement the Social Services Ministries Core.

Option #1:

This option emphasizes parish ministry as well as sensitizing students to issues of compassion and social service. Typically, these students are interested in leading a church where a compassionate ministry center is one focus of ministry for that parish. Students in this option are encouraged to take additional courses in business that will help them with fund raising and managing non-profit organizations.

Option #2:

This option prepares students for work in either parish ministry or social services.

Option #3:

This option prepares students to work in a parish ministry in practical and compassionate ministries.

Administrator: Gary Waller

Requirements: 45 credits in the core plus one option.

SOCIAL SERVICE MINISTRIES CORE:

- BL 311 Old Testament Interpretation (3)
- BL 312 New Testament Interpretation (4)
- CE 181 Introduction to Christian Education (3)
- CH 241 History and Manual, Church of the Nazarene (2)
- CH 361 History of the Christian Tradition I (3)
- CH 362 History of the Christian Tradition II (3)
- GK 101 Introduction to New Testament Greek (1)
- HB 101 Introduction to Biblical Hebrew (1)
- PL 202 Ethics (3)
- PT 171 Introduction to the Christian Ministry (1)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 371 Preaching (2)
- PT 375 Urban Ministries (3)
- PT 481 Leadership and Administration I (2)
- PT 482 Leadership and Administration II (2)
- TH 354 Christian Holiness (2)
- TH 452 Theology of the Church (2)
- TH 453 Christian Theology I (3)
- TH 454 Christian Theology II (3)

Option #1: Leadership Emphasis

Requirements: 16 credits * (Total credits: 61).

- CE 496 Special Ministries Internship (3)
- PL 306 Critical Reasoning (2)
- PT 296 Field Experience in Christian Ministry (1)
- PT 396 Field Experience in Christian Ministry (1)
- PT 378 Pastoral Care and Counseling I (2)
- PY 155 Introduction to Psychology (3)
- SW 285 Human Behavior and the Social Environment (4)

Recommended:

A minor in business or some business courses.

Note: One of the following may be substituted for PT 296 Field Experience in

Christian Ministry:

- SW 296 Field Experience in Social Work (1)
- SW 297 Urban Field Experience (1)

Option #2: Ministries Emphasis

Requirements : 35 credits (total credits: 80).

- CE 496 Special Ministries Internship (3)
- CE 496 Special Ministries Internship (3)

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- PT 355 Intervention Methods I (4)
- PT 356 Intervention Methods II (4)
- PT 359a Skills Practicum (1)
- PT 359b Skills Practicum (1)
- SW 172 Social Welfare in Contemporary Society (3)
- SW 211 Introduction to Social Work (3)
- SW 285 Human Behavior and the Social Environment (4)
- SW 297 Urban Field Experience (1)
- SW 375 Social Welfare Policy (3)
- SW 397 Social Work Research and Statistics (4)
- SW 494 Social Work Topics (1)

Recommended Foundation courses:

- SO 155 Introduction to Sociology (3); or,
SO 203 Cultural Anthropology I (2)
- SO 318 Race, Class and Ethnicity (3); or,
EN 427 Minority Voices in American Literature (3); or,
A second year foreign language course (4)
- PY 155 Introduction to Psychology (3)
- PY 345 Abnormal Psychology (3)
- PY 472 Group Theory and Process (3)
- BI 106 Human Biology (4)
- PS 103 Foundations of Politics (4)
- EC 105 Analysis of Economic Issues (3)

Option #3: Compassionate Ministries Emphasis

Requirements: 23 credits (Total required credits: 68).

- PT 355 Intervention Methods I (4)
- PT 356 Intervention Methods II (4)
- PT 359a Skills Practicum (1)
- PT 359b Skills Practicum (1)
- SW 211 Introduction to Social Work (3)
- SW 172 Social Welfare in Contemporary Society (3)
- SW 285 Human Behavior and the Social Environment (4)
- SW 375 Social Welfare Policy (3)

MINORS

APPLIED ETHICS (16-20 CREDITS)

Administrator: Edwin Crawford

Requirements:

PL 202 Ethics (3)

One of the following two:

PL 301 History of Ancient and Medieval Philosophy (3)

PL 302 History of Modern Philosophy (3)

PL 306 Critical Reasoning (2)

PL 350 Bioethics (2)

TH 354 Christian Holiness (2)

2 elective courses selected in consultation with advisor (4-8)

BIBLE (20 CREDITS)

Administrator: Wendell Bowes

BL 300 level New Testament elective (2)

BL 300 level Old Testament elective (2)

BL 311 Old Testament Interpretation (3)

BL 312 New Testament Interpretation (4)

BL 400 level New Testament elective (2)

BL 400 level Old Testament elective (2)

EN 353 The Bible as Literature (3)

PT 222 Instructional Bible Study (2)

BIBLICAL LANGUAGES (22 CREDITS)

Administrator: George Lyons

Requirements:

GK 101 Introduction to New Testament Greek (1)

GK 111, 112 Elementary New Testament Greek (4 each)

GK 201 Intermediate New Testament Greek (3)

GK 352 New Testament Exegesis (2) (4 required)

HB 101 Introduction to Biblical Hebrew (1)

HB 301 Biblical Hebrew Grammar and Readings (5)

Recommended:

BL 311 Old Testament Interpretation (3)

BL 312 New Testament Interpretation (4)

EN 312 Linguistics: Structure of English (3)

CHILDREN'S MINISTRIES (21 CREDITS)

Administrator: Mark Maddix

Requirements:

- CE 181 Introduction to Christian Education (3)
- CE 286 Camping and Recreation Ministries (2)
- CE 381 Children's Ministries (2)
- MU 320 Worship Leadership II (2)
- PT 222 Instructional Bible Study (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 322 Worship Leadership I (2)
- PT 482 Leadership and Administration II (2)
- PY 336 Child Psychology (2)
- TH 452 Theology of the Church (2)

Recommended:

- PT 171 Introduction to the Christian Ministry (1)

CHRISTIAN EDUCATION (23-24 CREDITS)

Administrator: Mark Maddix

Requirements:

- CE 181 Introduction to Christian Education (3)
- CE 381 Children's Ministries (2)
- CE 382 Youth Ministries (2)
- CE 383 Adult Ministries (2)
- PT 222 Instructional Bible Study (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 322 Worship Leadership I (2)
- PT 481 Leadership and Administration I (2)
- PT 482 Leadership and Administration II (2)
- TH 452 Theology of the Church (2)

One of the following:

- CH 353 History of the Wesleyan-Holiness Tradition (2)
- CH 361 History of the Christian Tradition I (3)
- CH 362 History of the Christian Tradition II (3)

Recommended:

- PT 171 Introduction to the Christian Ministry (1)

CHRISTIAN SERVICE (21 CREDITS)

Administrator: Ralph Neil

Requirements:

- PT 171 Introduction to the Christian Ministry (1)
- PT 172 Introduction to Evangelism (1)
- PT 222 Instructional Bible Study (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 322 Worship Leadership I (2)
- PT 379 Pastoral Care and Counseling II (2)
- PT 482 Leadership and Administration II (2)
- TH 452 Theology of the Church (2)

One of the following two:

- CE 181 Introduction to Christian Education (3)
- PT 271 Introduction to Missiology (3)

One of the following three:

- CE 381 Children's Ministries (2)
- CE 382 Youth Ministries (2)
- CE 383 Adult Ministries (2)

Two credits in CE 294 /494 Topics in Special Ministries (1) (2 credits)

CHURCH ADMINISTRATION (22 CREDITS)

Administrator: Ralph Neil

Requirements:

- BU 365 Human Resource Management (3)
- BU 467 Organizational Behavior (3)
- CE 181 Introduction to Christian Education (3)
- PL 202 Ethics (3)
- PL 306 Critical Reasoning (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 481 Leadership and Administration I (2)
- PT 482 Leadership and Administration II (2)
- TH 452 Theology of the Church (2)

Recommended:

- PT 171 Introduction to the Christian Ministry (1)
- Course in Accounting (3)

COMPASSIONATE MINISTRY (23-24 CREDITS)

Administrator: Gary Waller

Requirements:

- PT 171 Introduction to the Christian Ministry (1)
- PT 222 Instructional Bible Study (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 375 Urban Ministries (3)
- PT 378 Pastoral Care and Counseling I (2)
- SW 172 Social Welfare in Contemporary Society (3)
- SW 285 Human Behavior and the Social Environment (4)
- TH 354 Christian Holiness (2)
- TH 452 Theology of the Church (2)

One of the following:

- CH 142 History of Christian Missions (2)
- PT 271 Introduction to Missiology (3)
- SW 375 Social Welfare Policy (3)

HISTORY OF CHRISTIANITY (21 CREDITS)

Administrator: Diane Leclerc

Requirements:

- CH 353 History of the Wesleyan-Holiness Tradition (2)
- CH 361 History of the Christian Tradition I (3)
- CH 362 History of the Christian Tradition II (3)
- CH 394 Topics in Church History (2)
- HS 344 History of Christianity in America (4)
- HS 345 Early Modern Europe (1400-1800) (4)

One of the following:

- PL 301 History of Ancient and Medieval Philosophy (3)
- PL 302 History of Modern Philosophy (3)

MISSIONS (19 CREDITS)

Administrator: Ralph Neil

Requirements:

- CH 142 History of Christian Missions (2)
- PT 271 Introduction to Missiology (3)
- PT 471 Church Growth and Evangelism (3)
- PT 481 Leadership and Administration I (2)

- SO 203 Cultural Anthropology I (2)
- SO 225 Issues of Developing Nations I (3)
- TH 356 World Religions: Asian Traditions (2)
- TH 357 World Religions: Western Traditions (2)

Recommended:

- PT 171 Introduction to the Christian Ministry (1)
- Modern language proficiency at the intermediate level.

PHILOSOPHY (16 CREDITS)

Administrator: Edwin Crawford

Requirements:

- PL 201 Introduction to Philosophy (3)

Two of the following:

- PL 301 History of Ancient and Medieval Philosophy (3)
- PL 302 History of Modern Philosophy (3)
- PL 421 Contemporary Philosophy (3)
- PL 307 Formal Logic (2)
- Electives selected in consultation with advisor (5)

THEOLOGY (22 CREDITS)

Administrator: Diane Leclerc

Requirements:

- PL 341 Philosophy and Literature of Existentialism (3)
- PL 452 Philosophy of Religion (3)
- TH 353 History of the Wesleyan-Holiness Tradition (2)
- TH 354 Christian Holiness (2)

One of the following:

- TH 356 World Religions: Asian Traditions (2)
- TH 357 World Religions: Western Traditions (2)
- TH 452 Theology of the Church (2)
- TH 453 Christian Theology I (3)
- TH 454 Christian Theology II (3)

One of the following:

- CH 394 Topics in Church History (2)
- PL 394 Topics in Philosophy (1) (2 required)
- TH 394 Topics in Theology (1) (2 required)

WORSHIP LEADERSHIP (23 CREDITS)

Administrator: Gary Waller

Requirements:

- AR 119 Introduction to the Visual Arts (3)
- CO 232 Readers Theater (1)
- CO 260 Introduction to Directing (3)
- MU 320 Worship Leadership II (2)
- MU 338 Church Music Administration (3)
- MU 451 Music in Worship (3)
- PT 222 Instructional Bible Study (2)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 322 Worship Leadership I (2)
- TH 452 Theology of the Church (2)

Recommended:

- PT 171 Introduction to the Christian Ministry (1)
- Participation in a dramatic or musical production

YOUTH MINISTRIES (23-24 CREDITS)

Administrator: Mark Maddix

Requirements:

- CE 181 Introduction to Christian Education (3)
 - CE 286 Camping and Recreation Ministries (2)
 - CE 382 Youth Ministries (2)
- One of the following:**
- CH 353 History of the Wesleyan-Holiness Tradition (2)
 - CH 361 History of the Christian Tradition I (3)
 - CH 362 History of the Christian Tradition II (3)
- MU 320 Worship Leadership II (2)
 - PT 222 Instructional Bible Study (2)
 - PT 321 Spiritual Formation and Christian Discipleship (2)
 - PT 322 Worship Leadership I (2)
 - PT 482 Leadership and Administration II (2)
 - PY 366 Adolescent Psychology (2)
 - TH 452 Theology of the Church (2)

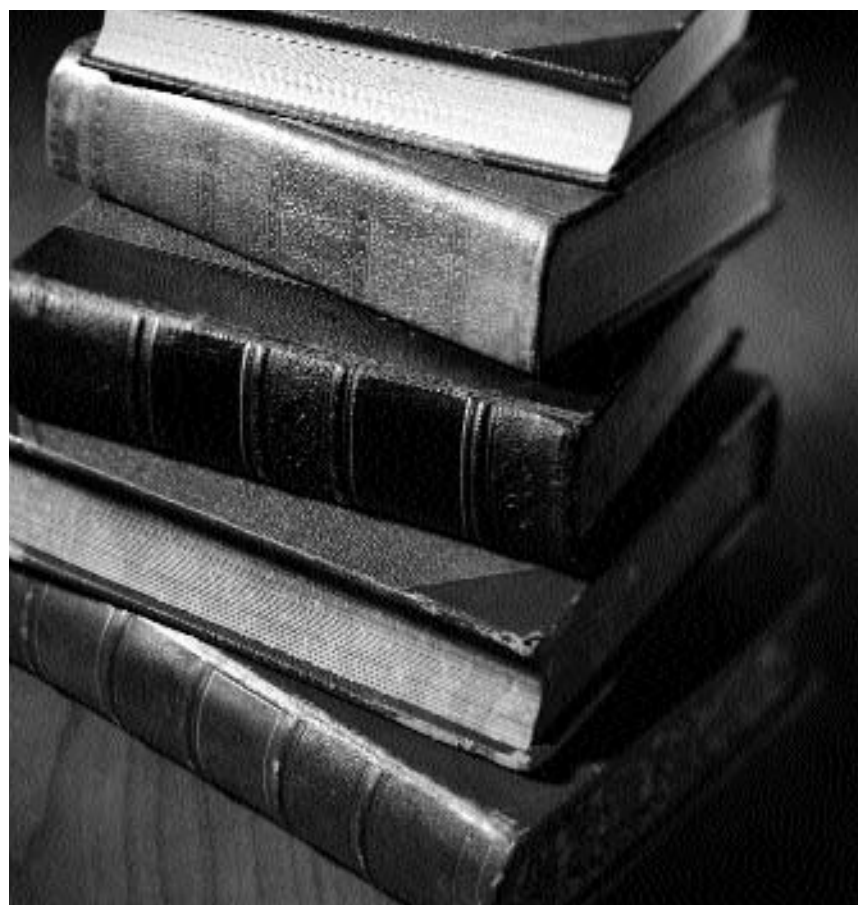
Recommended:

- PT 171 Introduction to the Christian Ministry (1)

JERUSALEM UNIVERSITY COLLEGE

Coordinator: Wendell Bowes

Jerusalem University College, located in Jerusalem, Israel, is an approved off-campus center for NNU students. Students may attend individual two or three-week courses during the summer, or they may stay for a semester or a year. Please see the Special Program and Study Opportunities chapter of this catalog for a fuller description. JUC is an excellent choice for students in the Philosophy and Religion Major for a semester abroad.



SCHOOL OF ARTS, HUMANITIES, AND SOCIAL SCIENCES

Dean of the School of Arts, Humanities, and Social Sciences: Steve Shaw

The School of Arts, Humanities, and Social Sciences offers a curriculum that is the core of a Christian liberal arts education. The various academic majors, minors, and programs found within this school prepare students to develop that “habit of mind” that is essential for transforming themselves and the world they inhabit. The academic programs in this school also prepare students for formal study beyond the undergraduate degree.

The six departments in this school are: Art and Music, Communication Studies, English, History and Political Science, Modern Languages, Psychology and Sociology. Majors available in the school, by department, are:

Art and Music

Art

Ceramics/Sculpture Emphasis
Drawing/Painting/Printmaking Emphasis
Graphics Emphasis

Art-Education

Music

Applied Emphasis
General Music Emphasis
Music Theory Emphasis

Music Ministry

Music-Education

Communication Studies

Media Studies

TV/Film Narrative Concentration
News/Documentary Concentration
Corporate Media Concentration

Public Communication

English

English

English-Education

History and Political Science

History

History-Education

International Studies

Political Science

Social Science-Education

Modern Languages

Spanish

Spanish-Education First Teaching Field

Psychology and Sociology

Psychology

Emphasis A (Scientist/Practitioner)

Emphasis B (Interdisciplinary)

Emphasis C (Industrial and Organizational)

DEPARTMENT OF ART AND MUSIC

Faculty: Jim Willis (Chair, Department of Art and Music), Susan Armstrong, Jonathan Bouw, Bill Campton, Casey Christopher, Tyrus Clutter, Walden Hughes, Judy Marlett, Marvin Stallcop, George Turner.

Realizing that the fine arts are an integral part of any liberal arts education, the Department of Art and Music has as its objectives: (1) to develop in the entire university community on-going knowledge and life-long appreciation of the arts; (2) to educate, counsel, and nurture those students who are professionally interested in various areas of art and music; and (3) foster the incorporation of the arts into the worship experience.

ART

Faculty: Jonathan Bouw, William Campton, Tyrus Clutter

Objective:

The art curriculum aims to provide students with fundamental experiences in the visual arts; and to develop visual awareness, the ability to make aesthetic judgments, and an appreciation for art forms in every-day life. Courses are designed to study the arts of past and present cultures, to give opportunities for the development of specialized skills, and to provide students with the knowledge and skills needed to pursue further studies or a career in art. The Art Program offers emphases in the areas of graphic design, art education and selected studio areas.

MAJORS

BACHELOR OF ARTS:

ART

Administrator: Chair, Department of Art and Music

Requirements: 69-75 credits: Completion of the prescribed core courses (33 credits) plus the requirements for one area of emphasis (36-42 credits).

Core Courses: 33 credits

- AR 102 Design (3)
- AR 104 Drawing 1 (3)
- AR 200 Drawing 2 (3)
- AR 201 Sculpture 1/Three-Dimensional Design (3)
- AR 206 Printmaking 1 (3) or
AR 306 Printmaking 2 (3)
- AR 241 Painting 1 (3)
- AR 341 Painting 2 (3)
- AR 309 Renaissance Art History (3)
- AR 319 Modern Art History (3); or,
AR 329 American Art History (3)
- AR 339 Ancient Art History (3)
- AR 487 Presentation & Portfolio (3)

Ceramics/Sculpture Emphasis 32 credits

- AR 205 Ceramics 1 (3)
- AR 301 Sculpture 2 (3)
- AR 305 Ceramics 2 (3)
- AR 401 Sculpture 3 (3); or,
AR 405 Ceramics 3 (3)
- AR 411, 412 Project Studies in Ceramics – Sculpture (4 each) (8 required)
- Twelve elective art credits (12)

Drawing/Painting/Printmaking Emphasis 36 credits

- AR 212 Water-based Media Painting 1 (3)
- AR 306 Printmaking 2 (3)
- AR 312 Water-based Media Painting 2 (3)
- AR 441 Painting 3 (3)

School of Arts, Humanities, and Social Sciences

AR 411, 412 Project Studies in Painting - Drawing – Printmaking (3 each)
(6 required)

Twelve elective art credits (12)

AR 243 Digital Design 1/Painting Drawing/Digital Imaging (3)

AR 176 Fundamentals of Photography (3)

Graphics Emphasis 42 credits

AR 135 Graphic Design 1 (3)

AR 228 Illustration 1 (3)

AR 236 Graphic Design 2: Typography (3)

AR 336 Graphic Design 3: Product Identity (3)

AR 436 Graphic Design 4 (3)

AR 243 Digital Design 1/Digital Imaging (3)

AR 343 Digital Design 2/DTP-Desktop Publishing (3)

AR 344 Digital Design 3/WWW-Worldwide Web (3)

AR 444 Digital Design 4/Multimedia (3)

AR 334 History of Design (3)

AR 176 Fundamentals of Photography (3)

AR 496 Graphic Design Internship (3)

BU 351 Principles of Marketing (3)

BU 353 Marketing Communications (3)

ART-EDUCATION

Objective: A course of study for art majors who wish to design and implement a comprehensive, discipline-base art education curriculum in either elementary or secondary schools.

Administrators: Chair, Department of Art and Music; Director, Teacher Education

TEACHING AREA

Requirements: For Secondary Certificate (K-12) with a Teaching Area: 86-87 credits including 45 credits in art, of which 18 shall be numbered above 299.

AR 102 Design (3)

AR 104 Drawing 1 (3)

AR 201 Sculpture 1 (3); or,

AR 205 Ceramics 1 (3)

AR 206 Printmaking 1 (3)

AR 212 Water-based Media Painting 1 (3)

AR 241 Painting 1 (3)

AR 309 Renaissance Art History (3)

AR 319 Modern Art History (3)

- AR 339 Ancient Art History (3)
- AR 333 Teaching Art in Elementary Schools (3)
- AR 353 Teaching Art in Secondary Schools (3)
- AR 487 Presentation & Portfolio (3)
- Three elective art credits above 299
- CO 121 Fundamentals of Speech (3)
- ED 110 Introduction to Teaching (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 333 Teaching Art in the Elementary Schools (3)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the Senior High School (12)
- ED 492 Foundations of Education (2)
- PY 155 Introduction to Psychology (3)
- PY 211 Educational Psychology (3)
- One multi-culture course selected from:**
 - EN 427 Minority Voices in American Literature (3)
 - SO 203 Cultural Anthropology I (2)
 - SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the Teacher Education Program.

Note: Most students require more than 8 semesters to complete this program.

SECOND TEACHING FIELD: ART

Requirements: 22 credits in art.

- AR 102 Design (3)
- AR 104 Drawing I (3)
- AR 202 Sculpture I (3); or,
AR 205 Ceramics I (3)
- AR 241 Painting I (3)
- AR 333 Teaching Art in Elementary Schools (3); or,
AR 353 Teaching Art in the Secondary School (2)
- One art history course above 299
- Four elective art credits above 299

MINOR

ART

Requirements: 24 credits in art, of which 15 shall be numbered above 299.

AR 102 Design (3)

AR 104 Drawing 1 (3)

AR 241 Painting 1 (3)

Six art history credits numbered above 299

Nine elective art credits numbered above 299

MUSIC

The objective of the music curriculum is to develop within students, excellence in creating, performing, and appreciating music. The program's course offerings provide the opportunity to: (1) pursue careers in music; (2) develop one's perception of the intrinsic and aesthetic values within musical expression; (3) understand the interrelatedness of music and Christian service; (4) prepare for service in Church and community; and (5) relate music to life-long learning.

The program serves the total student body by providing ensembles, lessons, and courses, which are open to all students. Also, the program makes available to the student body concerts and recitals throughout the year in the Swayne Auditorium and other auditoriums on campus.

Programs of study for students choosing music are a Bachelor of Arts in Music Education; a Bachelor of Arts in Music with an Emphasis in Applied, General Music, Music Theory, and a Bachelor of Arts in Music Ministry.

MAJORS

BACHELOR OF ARTS:

MUSIC

Objective: Designed for the student who wishes to study and excel in creating, performing, and listening to music. The primary goal of the program is to foster within the student a desire to develop his or her musical skills over a lifetime of involvement and study.

Administrator: Chair, Department of Art and Music

Major Requirements: 48-65 credits (43-54 credits in music of which 23-32 shall be numbered above 299.) **Note:** Applied music and ensembles numbered above 299 may not be counted toward these 23-32 credits. The major includes completion of the prescribed core courses and the requirement for one area of emphasis.

Core Courses in Applied, General, and Theory emphases:

- MU 120 Introduction to Music Theory*/**(2)
- MU 121 Music Theory*/**(2)
- MU 122 Music Theory**(4)
- MU 221, 222 Advanced Music Theory**(4 each)
- MU 311 Computer Music Editing (1)
- MU 313 Synthesizers and Sequencing (1)
- MU 321 Orchestration (3)
- MU 324 Choral Conducting (3)
- MU 326 Music History: Medieval, Renaissance, and Baroque (3)
- MU 327 Music History: Classic, Romantic and Modern (3)
- MU 410 Forms and Analysis (3)

* MU 120, Introduction to Music Theory, is a prerequisite to MU 121, Music Theory. MU 120 may be waived if a student passes a music theory matriculation exam. MU 120 and 121 are 2 credit quads taught first semester.

**MU 120, 121, 122, 221, 222, 225 and 425 have a required laboratory session. An acceptable level of keyboard proficiency (determined by examination) is required in all emphases. A student may acquire needed skills by taking available piano courses.

Additionally music majors are required to:

1. ...participate in a minimum of one ensemble each semester;
2. ...participate four semesters in the major ensemble appropriate for their major performance medium;
3. ...study privately each semester in their major performance medium (voice or instrument) ** additional fee required;
4. ...pass a juried examination in their performance medium each semester. A minimum of six exams must be on file to qualify for graduation in music. Exceptions will only be by permission from the Chair of the Art and Music Department.
5. ...attend ten recitals or concerts during each semester.

School of Arts, Humanities, and Social Sciences

Familiarization and compliance with music program policies as outlined in the Music Program Handbook is the student's responsibility. Copies are available in the Department office.

Applied Emphasis

Designed for students interested in music performance and private studio teaching

Requirements: 57-65 credits (54 credits in music of which 26 shall be numbered above 299).

Major applied: 12 credits

MU 322 Counterpoint (3)

Piano majors: MU 339 Piano Methods (3)

Voice majors: MU 341 Voice Methods, MU 344 Diction (3 each)

Other instrument majors: MU 399 Directed Study - Methods (3)

Recitals during junior and senior years

AR 101 A Survey of Art and Music (3)

Piano, Organ, and Other Instrument Majors: Three elective upper division music credits

Voice majors: One year of university French or equivalent high school German, Italian, or French. (8)

General Music Emphasis

Designed to give the student a general background in music and a working knowledge of its elements

Requirements: 44 credits: (39 credits in music of which 23 shall be numbered above 299).

MU 322 Counterpoint (3)

MU 325 Instrumental Conducting (3)

AR 101 A Survey of Art and Music (3)

ED 334 Teaching Music in the Elementary School (2)

Music Theory Emphasis

Designed for students interested in the theoretical aspects of music and who plan on graduate work in this area.

Requirements: 56 credits: (45 credits in music of which 29 shall be numbered above 299)

MU 322 Counterpoint (3)

MU 323 Composition (3)

MU 498 Seminar in Music Theory (3)

AR 101 A Survey of Art and Music (3)
Half-recital in the senior year
One year of French (8)

MUSIC MINISTRY

Designed for students interested in pursuing a career in music ministry.

Requirements: (71 credits – excluding General Education foundations)

Foundation Courses from the General Education requirements:

PL 201 Introduction to Philosophy (3)
BL 312 New Testament Interpretation (4)
MU 326 Music History: Medieval, Renaissance, Baroque (3)

Music Requirements

MU 120 Introduction to Music Theory (2)
MU 121 Music Theory (2)
MU 122 Music Theory (4)
MU 324 Choral Conducting (3)
MU 311 Computer Music Editing (1)
MU 313 Synthesizers and Sequencing (1)
6 credits in applied lessons; additional fee required
6 credits in music ensembles
Half-recital

Music Ministry Requirements

MU 211 Introduction to the Ministry of Music (2)
MU 338 Church Music Administration (3)
MU 352 Church Music for Children and Youth (2)
MU 320 Worship Leadership II (2)
MU 451 Music in Worship (3)
MU 496 Internship (3)

Religion Courses:

CH 241 History and Manual, Church of the Nazarene (2)
CH 361 History of the Christian Tradition I (3); or,
CH 362 History of the Christian Tradition II (3)
PL 202 Ethics (3)
PT 171 Introduction To Christian Ministries (1)
PT 321 Spiritual Formation and Christian Discipleship (2)
PT 322 Worship Leadership I (2)
PT 296 Field Experience in Christian Ministry (1)
PT 396 Field Experience in Christian Ministry (1)

School of Arts, Humanities, and Social Sciences

PT/CE 482 Leadership and Administration II (2)
TH 354 Christian Holiness (2)
TH 452 Theology of the Church (2)
TH 454 Christian Theology (3)

Communication Studies Courses:

CO 232 Readers Theater (1)
CO 260 Introduction to Directing (3)
MU 314 Audio Technology (1)

****MU 120, 121, 122, 225 and 425 have a required laboratory session.**

An acceptable level of keyboard proficiency (determined by examination) is required. A student may acquire needed skills by taking available piano courses.

Additionally music majors are required to:

...attend ten recitals or concerts during each semester.

Familiarization and compliance with music program policies as outlined in the Music Program Handbook is the student's responsibility. Copies are available in the Department office.

Exceptions will only be by permission from the Chair of Art and Music Department.

MUSIC-EDUCATION

Objective: Designed for the student wishing to instill in others the joy of creating, performing, and listening to music. A primary goal of the program is to foster within oneself a desire to develop musical skills over a lifetime of involvement and study. The program is specifically designed to prepare the student for teaching music in elementary and secondary schools.

Administrators: Chair, Department of Art and Music; Director, Teacher Education

TEACHING AREA

Requirements: For Secondary Certificate (K-12) with a Teaching Area – 111-112 credits including the 46 core music credits listed below and then 8 minimum credits in ensembles and 8 minimum credits in applied lessons; additional fee required.

MU 111 Class Guitar (1)
MU 114 Class Voice (1)
MU 121 Music Theory */** (2)
MU 122 Music Theory **(4)
MU 221, 222 Advanced Music Theory** (4 each)

- MU 311 Computer Music Editing (1)
- MU 313 Synthesizers and Sequencing (1)
- MU 321 Orchestration (3)
- MU 324 Choral Conducting (3)
- MU 325 Instrumental Conducting (3)
- MU 326 Music History: Medieval, Renaissance and Baroque (3)
- MU 327 Music History: Classical, Romantic and Modern (3)
- MU 333 Strings (2)
- MU 336 Woodwinds (2)
- MU 337 Brass and Percussion (2)
- MU 342 Choral Methods and Materials (2)
- MU 410 Forms and Analysis (3)
- Eight credits in ensembles
- Eight credits in applied lessons **
- AR 101 A Survey of Art and Music (3)
- ED 110 Introduction to Education (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 334 Teaching Music in the Elementary School (2)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 354 Teaching Music in the Secondary School (3)
- ED 361 Teaching Reading in Content Area: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the Senior High School (12)
- ED 492 Foundations of Education (2)
- PY 155 Introduction to Psychology (3)
- PY 211 Educational Psychology (3)
- CO 121 Fundamentals of Speech (3)
- Multi-culture course selected: Choose one:**
 - EN 427 Minority Voices in American Literature (3)
 - SO 203 Cultural Anthropology I (2)
 - SO 318 Race, Class and Ethnicity (3)
- Half-recital in the senior year

* MU 120 Introduction to Music Theory, is a prerequisite to MU 121, Music Theory. MU 120 may be waived if a student passes a music theory matriculation exam. MU 120 and 121 are 2 credit quads taught first semester.

**MU 120, 121, 122, 221, 222, 225, 425 have a required laboratory session.

School of Arts, Humanities, and Social Sciences

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

An acceptable level of music keyboard proficiency shall be determined by examination before enrolling for student teaching. Students may acquire needed skills by taking available piano courses.

Additionally Music-Education majors are required to:

1. ...pass a juried examination in their performance medium at the close of each semester; and,
2. ...attend ten recitals or concerts during each semester.

Familiarization and compliance with music program policies as outlined in the Music Handbook is the student's responsibility. Copies are available in the Department office.

Note: Most students require more than 8 semesters to complete this program.

MINOR

MUSIC

Requirement: 22 credits in music

MU 120 Introduction to Music Theory*/**(2)

MU 121 Music Theory*/**(2)

MU 122 Music Theory**(4)

MU 311 Computer Music Editing (1)

MU 313 Synthesizers and Sequencing (1)

Select one of the following:

MU 324 Choral Conducting (3)

MU 325 Instrumental Conducting (3)

Select one of the following:

MU 326 Music History: Medieval, Renaissance and Baroque (3)

MU 327 Music History: Classical, Romantic and Modern (3)

Three elective upper division music credits; not including ensembles or applied music (3)

Not less than three credits of applied music and/or ensemble credit; additional fee required for applied music (3)

* MU 120, Introduction to Music Theory, is a prerequisite to MU 121, Music Theory. Music 120 may be waived if a student passes a music theory matriculation exam. MU 120 and 121 are 2 credit quads taught first semester.

**MU 120, 121, 122, 221, 222, 225, 425 have a required laboratory session.

MUSIC MINISTRY

Requirement: 26 credits

MU 120 Introduction to Music Theory (2)

MU 121 Music Theory (2)

MU 122 Music Theory (4)

MU 211 Introduction to the Ministry of Music (2)

MU 451 The History and Philosophy of Christian Music in Worship (3)

PT 171 Introduction to Christian Ministries (1)

PT 321 Spiritual Formation and Christian Discipleship (2)

PT 322 Worship Leadership I and MU320 Worship Leadership II (2 each)

PT 296 Field Experience in Christian Ministry (1)

PT 396 Field Experience in Christian Ministry (1)

Select one of the following:

MU 311 Computer Music Editing (1)

MU 313 Synthesizers and Sequencing (1)

Select one of the following:

MU 324 Choral Conducting (3)

MU 325 Instrumental Conducting (3)

SECOND TEACHING FIELD: MUSIC

Requirements: 23 credits in music

MU 120 Introduction to Music Theory */** (2)

MU 121 Music Theory */** (2)

MU 122 Music Theory**(4)

MU 311 Computer Music Editing (1)

MU 313 Synthesizers and Sequencing (1)

MU 324 Choral Conducting (3)

MU 331 Teaching Music in the Elementary School (2)

MU 332 Teaching Music in the Secondary School (3)

Two credits in a performance medium, instrument, or voice

Three credits of upper division electives selected in consultation with major advisor (3)

*MU 120, Introduction to Music Theory, is a prerequisite to MU 121, Music Theory. MU 120 may be waived if a student passes a music theory matriculation exam. MU 120 and 121 are 2 credit quads taught first semester.

**MU 120, 121, 122, 221 have a required laboratory session.

DEPARTMENT OF COMMUNICATION STUDIES

Faculty: Dennis Waller (Department Chair), Brooke Adamson

The objectives of the Department are: (1) to develop and enhance the abilities of all students to listen and speak effectively in a variety of settings; (2) to provide students with an appreciation for, and understanding of, the history, theories and techniques of communication; and (3) to provide opportunities for students to obtain the knowledge and develop the creative and technical skills needed for various communication-related ventures.

MAJORS

BACHELOR OF ARTS:

MEDIA STUDIES

Objective: To provide an understanding of the role that media play in contemporary society, and to prepare students to obtain employment in secular or Christian media. Students can use their education and training for pursuing graduate study in communication and other fields.

The media studies major includes 28 hours of foundation courses taken by all media studies students, along with 15 hours of required and elective courses in a chosen concentration. These concentrations include: TV/Film Narrative, News/Documentary, and Corporate Media.

Administrator: Chair, Department of Communication Studies

Requirements: 43 semester credits required for the major, including Foundations (28 credits) and one concentration (15 credits).

Foundations (REQUIRED OF ALL MEDIA STUDIES MAJORS): (28 credit hours)

- CO 202 Media Systems and Literacy (3)
- CO 225 Introduction to Scriptwriting (3)
- CO 226 Introduction to Video and Audio Production (3)
- CO 227 Media Workshop I (1)
- CO 302 Organizational Communication (3)
- CO 303 Narrative and Documentary Film (3)
- CO 327 Media Workshop II (1) (2 required)
- CO 328 Media Law and Ethics (3)
- CO 426 Advanced TV/Film Directing and Production (3)
- CO 461 Communication Theory, Research and Society (3)
- CO 498 Seminar in Communication Studies (1)

Concentration I: “Media Studies: TV/Film Narrative”

Required: (9 credits)

- CO 131 Performance of Literature (3)
- CO 325 Advanced Scriptwriting (3)
- EN 304 Creative Writing-Prose (3)

Electives: (select 2 courses) (6 credits)

- CO 260 Introduction to Directing (3)
- CO 262/362 Play Production (1)
- EN 325 or 326 The American Novel (3)
- EN 332 Shakespeare (3)
- EN 341 Greek and Roman Classics (3)
- EN 352 Twentieth Century Drama (3)

Concentration II: “Media Studies-News/Documentary”

Required: (9 credits)

- CO 142 Introduction to Public Relations (3)
- CO 295b/495b Internship in Media Studies (1) (3 required)
- EN 261 Introduction to Journalism (3)

Electives: select 2 courses (6 credits)

- AR 135 Graphic Design I (3)
- AR 228 Illustration I (3)
- AR 235 Typography (3)
- AR 335 Graphic Design II (3)
- AR 348 Digital Design I (3)
- AR 448 Digital Design II (3)
- CO 241/341 Competitive Individual Speaking (1)

School of Arts, Humanities, and Social Sciences

- CO 251/351 Competitive Debate (1)
- CO 321 Advanced Public Speaking (3)
- CO 325 Advanced Scriptwriting (3)
- CO 342 Persuasion (3)
- CO 350 Argumentation and Debate (3)

Concentration III: “Media Studies-Corporate Media”

Required: (9 credits)

- CO 142 Introduction to Public Relations (3)
- CO 325 Advanced Scriptwriting (3)
- EN 261 Introduction to Journalism (3)

Electives: select 2 courses (6 credits)

- CO 203 Interpersonal Communication (3)
- CO 241/341 Competitive Individual Speaking (1)
- CO 251/351 Competitive Debate (1)
- CO 295b/495b Internship in Media Studies (1)(3 required)
- CO 321 Advanced Public Speaking (3)
- CO 342 Persuasion (3)
- CO 350 Argumentation and Debate (3)

PUBLIC COMMUNICATION

Objective: To provide understanding of the role that communication plays in contemporary society with a focus on public speaking, performance and relationship issues. Students can use their training to assume leadership positions in public administration, the behavioral sciences, the media, or as a basis for graduate study in communication.

Administrator: Chair, Department of Communication Studies

Requirements: 40 semester credits in communication studies. In addition, the student will select an area of concentration, 12-16 credits, in an area of interest.

- CO 131 Performance of Literature (3)
- CO 142 Introduction to Public Relations (3)
- CO 201 Small Group Communication (3)
- CO 202 Media Systems and Literacy (3)
- CO 203 Interpersonal Communication (3)
- CO 260 Introduction to Directing (3)
- CO 302 Organizational Communication (3)
- CO 321 Advanced Public Speaking (3)

- CO 342 Persuasion (3); or,
- CO 350 Argumentation and Debate (3)
- CO 295a/495a Internship in Public Communication (1) (3 required)
- CO 444 Rhetorical Theory and Criticism (3)
- CO 461 Communication Theory, Research and Society (3)
- CO 498 Seminar in Communication Studies (1)

Three activity courses selected from:

- CO 232/332 Readers Theatre (1)
- CO 241/341 Competitive Individual Speaking (1)
- CO 251/351 Competitive Debate (1)
- CO 262/362 Play Production (1)

An area of concentration totaling 12-16 credits (ex: business, English, media, political science, religion, etc.) to be chosen by the student with the advisor's approval. (The "area" should be beyond General Education or major courses. Six credits must be upper division.)

MINORS:

DRAMA

Requirements: 20 semester credits required.

- CO 131 Performance of Literature (3)
- CO 232/332 Readers Theatre (1)
- CO 225 Introduction to Scriptwriting (3)
- CO 260 Introduction to Directing (3)
- CO 262/362 Play Production (1); or,
- MU 242/442 Opera/Musical Theatre Production (1)
- CO 303 Narrative and Documentary Film (3)
- EN 332 Shakespeare (3)
- EN 341 Greek and Roman Classics (3); or,
- EN 352 Twentieth Century Drama (3)

FILM STUDIES

Requirements: 15 semester credits required.

Core Courses: complete the following,

- CO 202: Media Systems and Literacy (3)
- CO 303: Narrative and Documentary Film (3)
- CO 325: Advanced Scriptwriting (3)

School of Arts, Humanities, and Social Sciences

EN 394: Classic Cinema (3); or
PS 394: Politics and Film (3)

Elective Courses: select one (3 semester) course from the following,

CO 226: Introduction to Video and Audio Production (3)
EN 391: Literary Criticism (3)
EN 394: Classic Cinema (3); or
PS 394: Politics and Film (3)

SPEECH COMMUNICATION

Requirements: 17 semester credits required.

CO 131: Performance of Literature (3)
CO 203: Interpersonal Communication (3)
CO 321: Advanced Public Speaking (3)
CO 342: Persuasion (3)
CO 350: Argumentation & Debate (3)

Two activity courses selected from:

CO 232/332: Readers Theatre (1)
CO 241/341: Competitive Speaking (1)
CO 251/351: Competitive Debate (1)

COMMUNICATION STUDIES-EDUCATION

SECOND TEACHING FIELD: COMMUNICATION STUDIES

Objective: To prepare a student to teach at the secondary level in the second teaching field of communication studies: public speaking, communication theory, competitive speaking, debate, and drama.

Administrators: Chair, Department of Communication Studies; Director, Teacher Education

Requirements: 26 credits in communication studies

CO 131 Performance of Literature (3)
CO 201 Small Group Communication (3)
CO 203 Interpersonal Communication (3)
CO 232/332 Readers Theatre (1); or,
CO 262/362 Play Production (1)
CO 241/341 Competitive Individual Speaking (1); or,
CO 251/351 Competitive Debate (1)
CO 260 Introduction to Directing (3)
CO 321 Advanced Public Speaking (3)

- CO 342 Persuasion (3); or,
- CO 350 Argumentation and Debate (3)
- CO 365 Teaching Communication Studies in the Secondary School (3)
- CO 444 Rhetorical Theory and Criticism (3); or,
- CO 328 Media Law and Ethics (3)

SPECIAL PROGRAMS

Administrator: Chair, Department of Communication Studies

A. Special Transfer Program(s):

Speech-Language Pathology: a transfer agreement has been developed with institution(s) that still have undergraduate SLP programs. NNU students would take the following SLP courses at NNU with the knowledge that further coursework would be completed at an institution having an agreement with the Department of Communication Studies. Additional course requirements and restrictions are dependent upon the specific agreements negotiated with each institution. Currently, NNU has a transfer agreement with Idaho State University at its Boise extension.

CO 273: Introduction to Communication Disorders (3)

B. Special Study Program(s):

1. Los Angeles Film Studies Center: students interested in mass communications are encouraged to consider the LAFSC (sponsored by the CCCU) for one term of study during the junior or senior year. Credits are transferrable to an NNU Communication Studies major. [Credits from LAFSC: 16 semester.]
2. Walt Disney World: offers students an exciting opportunity to study and work in Florida for 4-7 months. The WDW College Program offers approved courses by the American Council on Education that may be transferred, with advisor approval, to an NNU Communication Studies major. This is a great internship option for CO 495. [Credits from WDW: 3-12 semester.]

DEPARTMENT OF ENGLISH

Faculty: Gaymon Bennett (Department Chair), Evelyn Bennett, Kevin Dennis, Darrin Grinder, Reginald Hill, Darryl Wenner

MAJORS

BACHELOR OF ARTS:

ENGLISH

Academic Objectives:

The English-Education major offers students an opportunity to experience representative American, British, and world literature, to discover and develop an appreciation of ideas and values, to cultivate critical thinking, to develop a knowledge of the English language and its operation, and to strengthen writing skills.

Administrator: Gaymon Bennett

Major Requirements: 51-54 credits (43-46 in English of which 25 shall be numbered above 299)

EN 231 British Literature: Beowulf through the Age of Reason (4)

EN 298 Introduction to the Study of Literature (1)

EN 332 Shakespeare (3)

EN 341 Greek and Roman Classics (3)

EN 351 Twentieth Century Poetry (3); or,

EN 352 Twentieth Century Drama (3)

EN 312 Linguistics: Structure of English (3); or, both

EN 412 Linguistics: Theory/History (2) and

EN 212 English Grammar and Usage (2)

EN 391 Literary Criticism (3)

EN 397 Junior-Senior Project (1)

EN 432 Chaucer and His Age (3); or,

EN 433 Milton and His Age (3)

EN 498 Senior Seminar (1)

Two courses selected from:

EN 221 American Literature: Colonial Period to the Civil War (4)

EN 321 Major Authors of American Literature (3)

EN 325, 326 The American Novel (3, 3)

One course selected from:

EN 331 Major Authors in British Literature (3)

EN 434 Major Romantics and Victorians (3)

EN 335, 336 The British Novel (3, 3)

One course selected from:

EN 242, 243 World Literature (4, 4)

EN 342 Foreign Literature in Translation (3)

EN 343 Modern European Literature (3)

Six elective credits in English

One year of Foreign Language (same language) (8)

Recommended: A second year of foreign language

ENGLISH-EDUCATION

TEACHING AREA

Academic Objectives:

The English-Education major offers students an opportunity to experience representative American, British, and world literature, to discover and develop an appreciation of ideas and values, to cultivate critical thinking, to develop a knowledge of the English language and its operation, and to strengthen writing skills, as well as to prepare students to teach English/language arts in middle, junior, and senior high school.

Administrator: Gaymon Bennett; Director, Teacher Education

Major Requirements: 91-96 credits (42-46 in English of which 25-26 shall be above 299)

EN 261 Introduction to Journalism (3); or,

CO 260 Introduction to Directing (3)

EN 298 Introduction to the Study of Literature (1)

EN 332 Shakespeare (3)

EN 312 Linguistics: Structure of English (3); or, both

EN 412 Linguistics: Theory & History (2) and

EN 212 English Grammar and Usage (2)

EN 341 Greek and Roman Classics (3)

EN 351 Twentieth Century Poetry (3); or,

EN 352 Twentieth Century Drama (3)

EN 379 Teaching Language Arts and the Writing Process in the Secondary School (3)

EN 397 Junior-Senior Project (1)

EN 475 Literature for Secondary Schools (3)

EN 498 Senior Seminar (1)

Two courses selected from:

EN 302 Principles of Writing (3)

EN 304 Creative Writing C Prose (3)

EN 305 Creative Writing C Poetry (3)

One course selected from:

EN 221, 222 American Literature (4,4)

EN 325, 326 The American Novel (3,3)

One course selected from:

EN 231, 232 British Literature (4,4)

EN 335, 336 The British Novel (3,3)

One course selected from:

EN 242, 243 World Literature (4,4)

EN 342 Foreign Literature in Translation (3)

EN 343 Modern European Literature (3)

One English elective course (3)

One year of foreign language (same Language) (8)

CO 121 Fundamentals of Speech (3)

PY 155 Introduction to Psychology (3)

PY/ED 211 Educational Psychology (3)

Select one of the following:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I; or,

SO 204 Cultural Anthropology II (2)

SO 318 Race Class and Ethnicity (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle School/Junior High School (12); or,

ED 487 Student Teaching in the High School (12)

ED 492 Foundations of Education (2)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

FIRST TEACHING FIELD

Academic Objectives:

The English-Education major offers students an opportunity to experience representative American, British, and world literature, to discover and develop an appreciation of ideas and values, to cultivate critical thinking, to develop a knowledge of the English language and its operation, and to strengthen writing skills. This major also prepares students to teach English/language arts in middle, junior, and senior high school, along with a second teaching field.

Administrator: Gaymon Bennett; Director, Teacher Education

Major Requirements: 101-106 credits (32-36 in English of which 20 shall be above 299 and a minimum of 20 credits in a second teaching field.

EN 298 Introduction to the Study of Literature (1)

EN 332 Shakespeare (3)

EN 312 Linguistics: Structure of English (3); or,

EN 212 English Grammar and Usage (2)

EN 351 Twentieth Century Poetry (3); or,

EN 352 Twentieth Century Drama (3)

EN 379 Teaching Language Arts and the Writing Process in the Secondary School (3)

EN 397 Junior-Senior Project (1)

EN 475 Literature for the Secondary School (3)

EN 498 Senior Seminar (1)

Two courses selected from:

EN 302 Principles of Writing (3)

EN 304 Creative Writing C Prose (3)

EN 305 Creative Writing C Poetry (3)

One course selected from:

EN 221, 222 American Literature (4,4)

EN 325, 326 The American Novel (3,3)

One course selected from:

EN 231, 232 British Literature (4,4)

EN 335, 336 The British Novel (3,3)

One course selected from:

EN 242, 243 World Literature (4,4)

EN 341 Greek and Roman Classics;(3)

EN 342 Foreign Literature in Translation (3)

EN 343 Modern European Literature (3)

Recommended:

EN 261 Introduction to Journalism (3); or,

CO 260 Introduction to Directing (3)

One year of foreign language (same language)(8)

CO 121 Fundamentals of Speech (3)

PY 155 Introduction to Psychology (3)

PY/ED 211 Educational Psychology (3)

Select one of the following:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural anthropology I; or,

SO 204 Cultural Anthropology II (2)

SO 318 Race Class and Ethnicity (3)

ED 110 Introduction to Teaching (1)

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- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the High School (12)
- ED 492 Foundations of Education (2)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

SECOND TEACHING FIELD: ENGLISH EDUCATION

Academic Objectives:

The English-Education Second Teaching Field offers students an opportunity to experience representative American, British, and world literature, to discover and develop an appreciation of ideas and values, to cultivate critical thinking, to develop a knowledge of the English language and its operation, and to strengthen writing skills. This minor also prepares students to teach English/language arts in middle, junior, and senior high school, along with a major teaching field.

Administrator: Gaymon Bennett; Director, Teacher Education

Requirements: 21–24 credits of which 9 must be above 299

EN 212 English Grammar and Usage (2) and One elective credit selected in consultation with advisor (1); or,

EN 312 Linguistics: Structure of English (3)

Two of the following:

EN 302 Principles of Writing (3)

EN 304 Creative Writing—Prose (3)

EN 305 Creative Writing—Poetry (3)

EN 379 Teaching Language Arts and the Writing Process in the Secondary School (3)

One of these American literatures:

EN 221, 222 American Literature (4,4)

EN 321 Major Authors in American Literature (3)

EN 325, 326 The American Novel (3,3)

One of these British literatures:

- EN 231, 232 British Literature (4,4)
- EN 331 Major Authors in British Literature (3)
- EN 332 Shakespeare (3)
- EN 335, 336 The British Novel (3,3)
- EN 434 Major Romantics and Victorians (3)

One of these world literatures:

- EN 242, 243 World Literature (4,4)
- EN 341 Greek and Roman Classics (3)

MINORS

PROFESSIONAL WRITING

Academic Objectives:

The minor, Professional Writing, provides students an introduction to the opportunities in print journalism. Students will learn the principles of professional writing and will have the opportunity to develop writing skills in a variety of creative modes. English majors will not be able to count English courses taken for their major.

Administrator: Gaymon Bennett

Requirements: 21 credits of which 12 shall be above 299

- EN 261 Introduction to Journalism (3)
- EN 302 Principles of Writing (3)
- EN 304 Creative Writing–Prose (3)
- EN 305 Creative Writing–Poetry (3)
- EN 396 Internship in Professional Writing (3)

Two of the following three:

- CO 142 Introduction to Public Relations (3)
- CO 225 Introduction to Script Writing (3)
- CO 325 Advanced Script Writing (3)*

* **Note:** CO 225 is a prerequisite for CO 325.

LITERATURE

Academic Objectives:

The minor in literature provides a literature program to students majoring in areas other than English. Students will learn how to read and appreciate literature. They will receive an introduction to the historical breadth of one world area, and read more deeply in each of the three: American, British, and world literature.

School of Arts, Humanities, and Social Sciences

Administrator: Chair, Department of English

Requirements: 21 credits of which 12 shall be above 299

EN 298 Introduction to the Study of Literature (1)

EN 332 Shakespeare (3)

Eight credits of emphasis:

EN 221 and 222 (American Literature) (4 each); or,

EN 231 and 232 (British Literature) (4 each); or,

EN 242 and 243 (World Literature) (4 each)

One course from each of the following groups:

American literature

EN 321 Major Authors in American Literature (3)

EN 325, 326 The American Novel.(3,3)

British literature

EN 331 Major Authors in American Literature (3)

EN 335, 336 The British Novel (3,3)

EN 434 Major Romantics and Victorians (3)

World literature

EN 341 Greek and Roman Classics (3)

EN 342 Foreign Literature in Translation (3)

EN 343 Modern European Literature (3)

DEPARTMENT OF HISTORY AND POLITICAL SCIENCE

Faculty: Stephen Shaw (Department Chair),Terry Cantrell, Mark Gismondi, Alan Wheatley

MAJORS

BACHELOR OF ARTS:

HISTORY

Objective:

The Department holds to the belief that the study of history is an essential component of a high quality education. Historical study develops and sharpens the mind by training students to think, to evaluate, to communicate and ultimately to judge, all valuable skills for most professional careers.

Administrator: Chair, Department of History and Political Science

Requirements: 44 credits (36 in history of which 20 shall be numbered above 299)

HS 101 World Civilization, The Classical Era (4)

HS 102 World Civilization, The Modern Era (4)

HS 203 History of the United States to 1865 (4)

HS 204 History of the United States since 1865 (4)

HS 497 Senior Thesis (4)

One year of foreign language (same language) (8)

16 additional elective history credits numbered above 299 (16)

HISTORY-EDUCATION

Objective:

The history-education major offers students the opportunity to gain an appreciation of both world civilizations and American history while stressing communication, critical thinking and writing skills. This major also prepares students to teach history in middle, junior and senior high school.

Administrators: Chair, Department of History and Political Science; Director, Teacher Education

FIRST TEACHING FIELD

Requirements: 111-112 credits (36 in history of which 20 shall be numbered above 299) and a minimum of 20 credits in a second teaching field.

HS 101 World Civilization, The Classical Era (4)

HS 102 World Civilization, The Modern Era (4)

HS 203 History of the United States to 1865 (4)

HS 204 History of the United States since 1865 (4)

HS 497 Senior Thesis (4)

Four additional upper division elective credits in American History (4)

Twelve additional upper division elective credits in history (12)

PS 101 American National Politics (4)

One year of foreign language (same language) (8)

CO 121 Fundamentals of Speech (3)

PY 155 Introduction to Psychology (3)

PY/ED 211 Educational Psychology (3)

Select one of the following:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2); or,

SO 204 Cultural Anthropology II (2)

SO 318 Race Class and Ethnicity (3)

ED 110 Introduction to Teaching (1)

School of Arts, Humanities, and Social Sciences

- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 358 Teaching Social Studies in the Secondary School (2)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the High School (12)
- ED 492 Foundations of Education (2)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

MINORS

HISTORY

Objective:

The minor in history provides a history program to students majoring in areas other than history. Through representative courses, students will be encouraged to develop communication, critical thinking and writing skills.

Administrator: Chair, Department of History and Political Science

Requirements: 20 credits in history of which 12 shall be numbered above 299

- HS 101 World Civilizations, The Classical Era (4); or,
- HS 102 World Civilizations, the Modern Era (4)
- HS 203 History of the United States to 1865 (4); or,
- HS 204 History of the United States since 1865 (4)
- Twelve elective history credits numbered above 299 (12)

SECOND TEACHING FIELD: HISTORY-EDUCATION

Objective:

The history-education minor offers students the opportunity to gain an appreciation of both world civilizations and American history while stressing communication, critical thinking and writing skills. This minor also prepares students to teach history in middle, junior and senior high school.

Administrators: Chair, Department of History and Political Science; Director, Teacher Education

Requirements: 24 credits of which 12 credits shall be numbered above 299.

HS 203 History of the United States to 1865 (4)

HS 204 History of United States since 1865 (4)

Four additional upper division elective credits in American History (4)

Eight additional upper division elective history credits

PS 101 American National Politics (4)

POLITICAL SCIENCE

MAJORS

BACHELOR OF ARTS:

POLITICAL SCIENCE

Objective:

Political science is the systematic study of government, public policy and the political behavior of individuals and groups. This study develops and sharpens the mind and encourages students to seek solutions to contemporary public problems in relation to personal and Christian values.

Administrator: Stephen Shaw

Requirements: 56 credits (48 in Political Science) of which 36 shall be numbered above 299.

PS 101 American National Politics (4)

PS 103 The Foundations of Politics: The Quest for Peace and Justice (4)

PS 105 Introduction to International Relations (4)

PS 341 American Political Thought and Ideology (4)

PS 352 Theories of Politics (4)

PS 361 Comparative Politics (4)

PS 496 Internship in Political Science (4 credits required)

PS 497 Senior Thesis (4)

One year of foreign language (same language) (8)

16 additional political science credits numbered above 299 (16)

INTERNATIONAL STUDIES

Objective:

The International Studies major provides the student with an understanding of international affairs through study of modern language, intercultural communication skills, business and international commerce, and the social and political realities which exist outside the United States. The major also develops in students critical liberal arts skills, such as written and oral communication, and critical thinking, and encourages students to seek solutions to contemporary problems through the application of personal and Christian values. Most of the career choices in this area, such as diplomacy, law, international finance, bilingual service, international ministry and others, require advanced degrees or further specialized training.

Administrator: Mark Gismondi

Requirements: 77 credits from the Departments of Business and Economics, History and Political Science, Modern Languages, Psychology and Sociology, Philosophy and Religion, and a study abroad experience.

EC 242 Macroeconomic Analysis (3)

EC 405 Global Economics (3)

GE 105 Introduction to Geography (4)

HS 102 World Civilization: The Modern Era (4)

HS 348 Modern Europe (1800 – Present) (4)

PS 103 The Foundations of Politics: The Quest for Peace and Justice (4)

PS 105 Introduction to International Relations (4)

PS 333 U.S. Foreign Policy (4)

PS 361 Comparative Politics (4)

PS 456 International Peace and Global Governance (4)

PS 497 Senior Thesis (4)

PS 498 Seminar in International Studies (4)

SO 225 Issues of Developing Nations I (3)

TH 356 World Religions: Asian Traditions (2)

TH 357 World Religions: Western Traditions (2)

Twenty-four credits in a modern foreign language including 8 credits numbered above 299 (24)

Study abroad is required of all International Studies majors. Students who have not lived in a second culture are required to travel and study abroad (or in the United States under certain circumstances). Students should begin early to plan for the required study abroad. For details, see the International Studies director in the Department of History and Political Science.

PRE-PROFESSIONAL PROGRAM

PRE-LAW

Administrator: Stephen Shaw

The Association of American Law Schools recommends no prescribed pre-law program, but suggests that students pursue work in courses that require disciplined and logical thought, and clear and careful communication, especially lucid writing. NNU's rigorous liberal arts education is ideal training for law school and the legal profession; any liberal arts major is excellent preparation, but students may find programs in literature, philosophy, history and political science, economics, psychology and sociology, and mathematics and science quite relevant. Students should note that the precise use of English is increasingly stressed in the Law School Aptitude Test (LSAT). The pre-law advisor, Dr. Steve Shaw of the Department of History and Political Science, actively assists students in preparing for law school. Recent graduates have attended law schools throughout the United States, and have pursued career in law in diverse and impressive settings.

SOCIAL SCIENCE-EDUCATION

Objective: The social science-education major offers students the opportunity to gain an appreciation of historical, political, and social realities while stressing communication, critical thinking, and writing skills. This major prepares students to teach social studies in middle, junior, and senior high school.

Administrator: Chair, Department of History and Political Science; Director, Teacher Education

TEACHING AREA

Requirements: 87-88 credits (44 from the Social Sciences).

- HS 101 World Civilization, The Classical Era (4)
- HS 102 World Civilization, The Modern Era (4)
- HS 203 History of the United States to 1865 (4)
- HS 204 History of the United States since 1865 (4)
- GE 105 Introduction to Geography (4)
- EC 105 Analysis of Economic Issues (3)
- EC 242 Macroeconomic Analysis (3)
- PS 101 American National Politics (4)
- PS 102 State and Local Politics (3)
- SO 155 Introduction to Sociology (3)

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- HS 339 Recent America (4); or,
- PS 341 American Political Thought and Ideology (4)
- PS 442 Civil Rights and Civil Liberties (4)
- CO 121 Fundamentals of Speech (3)
- PY 155 Introduction to Psychology (3)
- PY/ED 211 Educational Psychology (3)

Select one of the following:

- EN 427 Minority Voices in American Literature (3)
- SO 203 Cultural Anthropology I; or,
- SO 204 Cultural Anthropology II (2)
- SO 318 Race Class and Ethnicity (3)
- ED 110 Introduction to Teaching (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 358 Teaching Social Studies in the Secondary School (2)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
- ED 487 Student Teaching in the High School (12)
- ED 492 Foundations of Education (2)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

MINORS

POLITICAL SCIENCE

Objective: The political science minor provides an introduction to the study of political behavior for students majoring in disciplines other than political science. Students will develop an appreciation for the political nature of our individual and collective existence and will develop and apply critical liberal arts skills, such as written and oral communication, and critical thinking.

Administrator: Stephen Shaw

Requirements: 24 credits in political science of which 12 shall be numbered above 299.

PS 101 American National Politics (4)

PS 103 The Foundations of Politics: The Quest for Peace and Justice (4)

PS 105 Introduction to International Relations (4)

Twelve elective political science credits numbered above 299 (12)

CRIMINAL JUSTICE

Objective: The minor in criminal justice provides an introduction to the field of criminal justice and enables students to explore issues related to the nature and treatment of crime, the relationships among law, social order and social justice and the application of Christian principles to such issues.

Administrator: Stephen Shaw; Chair, Department of Psychology and Sociology

Requirements: 24-26 credits of which 13 shall be numbered above 299.

PS 103 The Foundations of Politics: The Quest for Peace and Justice (4)

PS 442 Civil Rights and Civil Liberties (4)

PY 125 Psychology for Life (2); or,

PY 155 Introduction to Psychology (3)

PY 345 Abnormal Psychology (3)

SO 243 Social Problems in Modern Society (2)

SO 252 Criminology (3); or,

SO 253 Juvenile Delinquency (3)

SO 318 Race, Class and Ethnicity (3)

One upper division course in PY, SO, or PS (3-4)

SECOND TEACHING FIELD: SOCIAL SCIENCE-EDUCATION

Objective: The social science-education minor offers students the opportunity to gain an appreciation of historical, political, and social realities while stressing communication, critical thinking, and writing skills. This minor prepares students to teach social studies in middle, junior, and senior high school.

Administrator: Chair, Department of History and Political Science; Director, Teacher Education

SECOND TEACHING FIELD

Students completing a social science teaching area may qualify for an Idaho consumer economics endorsement if completing at least 9 semester credit hours in economics, 3 of which must be a course designed for the average consumer.

Requirements: 21 credits, of which 10 shall be numbered above 299.

GE 105 Introduction to Geography (4)

EC 105 Analysis of Economic Issues (3)

PS 101 American National Politics (4)

Ten additional elective social science credits numbered above 299 from the following disciplines:

Economics, History, Political Science, Psychology, and Sociology.

DEPARTMENT OF MODERN LANGUAGES

Faculty: Newell Morgan (Department Chair)

Objectives: The Department of Modern Languages offers courses in French and Spanish. The department provides opportunities for students: (1) to gain practical language proficiency; (2) to study the language, literature, history and culture of non-English-speaking peoples; (3) to acquire cultural competency; (4) develop intercultural sensitivity; and (5) reflect critically on their own cultural values and traditions.

MAJORS

BACHELOR OF ARTS:

SPANISH

Academic Objectives: The major in Spanish provides students the opportunity to acquire practical language proficiency, intercultural sensitivity, and cultural knowledge, gain appreciation of the cultural contributions of Spanish-speaking peoples, and reflect critically on their own cultural values.

Administrator: Chair, Department of Modern Languages

Major Requirements: 55-60 credits: (48 in Spanish of which 40 credits shall be numbered above 299).

SP 201, 202 Intermediate Spanish (8)

SP 301 Advanced Conversation and Composition (4) or,

SP 322 Spanish for Business (4)

SP 497 Senior Thesis (4)

32 credits with minimum of one course each from areas of Spanish or
Hispanoamerican linguistics, civilization, and literature:

One course selected from Spanish or Hispanoamerican civilization:

SP 331 Hispanic Civilization (4) repeatable; or

SP 394 Topics in Hispanic Culture, Literature, or Linguistics
(cultural topic,4)

One course selected from Spanish or Hispanoamerican Literature:

SP 351 Survey of Hispanic Literature (4) repeatable; or

SP 394 Topics in Hispanic Culture, Literature, or Linguistics
(literature topic,4)

One course selected from Spanish or Hispanoamerican Linguistics:

SP 341 Spanish Phonology (4);

SP 342 Introduction to Spanish Linguistics (4); or

SP 394 Topics in Hispanic Culture, Literature, or Linguistics
(linguistics topic, 4)

Twenty elective credits in Spanish

Two courses in History, Political Science or Sociology (4-8)

One course in American or world literature or philosophy (3-4)

Additionally Spanish majors are required the following:

Cultural Immersion Experience;

30 hours documented service in the local Hispanic community
(church, school, other organization);

Portfolio (4 major papers, including the Senior Thesis, representing the
areas of Hispanic linguistics, civilization, and literature);

Oral proficiency (ACTFL advanced level or better on modified ora
proficiency exam)

Cultural Immersion Experience: Students who have not lived in a cultural setting where Spanish is the primary language are required to study, travel, or work in such a setting for an extended period of time. Examples of acceptable experiences are a college-level summer school session, or academic-year program in a school such as the Universidad Internacional (formerly Centro de Estudios Lingüísticos y Multiculturales) in Cuernavaca, Mexico, or the Latin American Studies Program in San Jose, Costa Rica. Approved Off-Campus (OC prefix) courses or approved transfer courses from travel-study programs may be substituted for courses listed in the categories above. Prior approval of a travel-study program must be obtained from the chairperson of Modern Languages.

SPANISH-EDUCATION

FIRST TEACHING FIELD

Objectives: The Spanish-Education major provides students the opportunity to acquire practical language proficiency, intercultural sensitivity, and cultural knowledge, gain appreciation of the cultural contributions of Spanish-speaking peoples, and reflect critically on their own cultural values. This major also prepares students to teach Spanish in middle, junior, and senior high school, along with a second teaching field.

Administrators: Chair, Department of Modern Languages; Director, Teacher Education

Requirements: 93-94 credits: including 32 credits in Spanish, of which 26 shall be above 299; and a minimum of 20 credits in a second teaching field.

SP 201, 202 Intermediate Spanish (8)

SP 301 Advanced Conversation and Composition (4); or,

SP 322 Spanish for Business (4)

SP 342 Introduction to Spanish Linguistics (4)

One course selected from Spanish or Hispanoamerican civilization:

SP 331 Hispanic Civilization (4), repeatable; or,

SP 394 Topics in Hispanic Culture, Literature or Linguistics (cultural topic, 4, repeatable)

One course selected from Spanish or Hispanoamerican literature:

SP 351 Survey of Hispanic Literature (4) repeatable; or,

SP 394 Topics in Hispanic Culture, Literature or Linguistics (literature topic, 4, repeatable)

SP 363 Teaching Spanish in the Secondary School (2)

6 elective credits in Spanish

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle School/Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

- EN 427 Minority Voices in American Literature (3)
- SO 203 Cultural Anthropology I (2)
- SO 318 Race, Class and Ethnicity (3)

Additionally Spanish Education majors are required the following:

1. Cultural immersion experience;
2. Maintain a journal of cultural observations and resources related to their cultural immersion experience;
3. Maintain a portfolio of 3 major papers representing the areas of linguistics, civilization, and literature; and
4. Demonstrate oral proficiency (ACTFL advanced level or better on modified oral proficiency exam).

Cultural Immersion Experience: Students who have not lived in a cultural setting where Spanish is the primary language are required to study, travel, or work in such a setting for an extended period of time. Examples of acceptable experiences are a college-level summer school session, or academic-year program in a school such as the Universidad Internacional (formerly Centro de Estudios Lingüísticos y Multiculturales) in Cuernavaca, Mexico, or the Latin American Studies Program in San Jose, Costa Rica. Approved Off-Campus (OC prefix) courses or approved transfer courses from travel-study programs may be substituted for courses listed in the categories above. Prior approval of a travel-study program must be obtained from the chairperson of Modern Languages.

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

MINORS

SPANISH

Academic Objectives: The minor in Spanish provides students majoring in areas other than Spanish the opportunity to acquire practical language proficiency, intercultural sensitivity, and cultural knowledge, gain appreciation of the cultural contributions of Spanish-speaking peoples, and reflect critically on their own cultural values.

Administrator: Chair, Department of Modern Languages

School of Arts, Humanities, and Social Sciences

Minor Requirements: 20 credits, of which 12 must be upper division.

SP 201, 202. Intermediate Spanish (or equivalent) (8)

12 semester credits in Spanish numbered above 299 representing two of the following areas:

Culture (including history and civilization)

Linguistics

Literature

Cultural Immersion Experience

Cultural Immersion Experience: Students who have not lived in a cultural setting where Spanish is the primary language are required to study, travel, or work in such a setting for an extended period of time. Examples of acceptable experiences are a college-level summer school session, or academic-year program in a school such as the Universidad Internacional (formerly Centro de Estudios Lingüísticos y Multiculturales) in Cuernavaca, Mexico, or the Latin American Studies Program in San Jose, Costa Rica. Approved Off-Campus (OC prefix) courses or approved transfer courses from travel-study programs may be substituted for courses listed in the categories above. Prior approval of a travel-study program must be obtained from the chairperson of Modern Languages.

SECOND TEACHING FIELD: SPANISH-EDUCATION

Academic Objectives: The minor in Spanish provides students majoring in areas other than Spanish the opportunity to acquire practical language proficiency, intercultural sensitivity, and cultural knowledge, gain appreciation of the cultural contributions of Spanish-speaking peoples, and reflect critically on their own cultural values. This minor also prepares students to teach Spanish in middle, junior, and senior high school, along with a major teaching field.

Administrator: Chair, Department of Modern Languages

Minor Requirements: 24 credits, of which 16 must be upper division.

SP 201, 202 Intermediate Spanish (or equivalent) (8)

16 semester credits in Spanish numbered above 299 representing two of the following areas:

Culture (including history and civilization)

Linguistics

Literature

Cultural Immersion Experience

Cultural Immersion Experience: Students who have not lived in a cultural setting where Spanish is the primary language are required to study, travel, or work in such a setting for an extended period of time. Examples of acceptable experiences are a college-

level summer school session, or academic-year program in a school such as the Universidad Internacional (formerly Centro de Estudios Lingüísticos y Multiculturales) in Cuernavaca, Mexico, or the Latin American Studies Program in San Jose, Costa Rica. Approved Off-Campus (OC prefix) courses or approved transfer courses from travel-study programs may be substituted for courses listed in the categories above. Prior approval of a travel-study program must be obtained from the chairperson of Modern Languages.

Note: This Second Teaching Field requires a First Teaching Field and the Education core.

DEPARTMENT OF PSYCHOLOGY AND SOCIOLOGY

Faculty: Glenna Andrews (Department Chair), Ronald Ponsford, JoAnn Willis

MAJOR

BACHELOR OF ARTS:

PSYCHOLOGY

Administrator: Chair, Department of Psychology and Sociology

Requirements: 51-62 credits: (24 core credits in psychology of which 18 shall be numbered above 299; completion of general education requirements, plus the requirements for one of the areas of emphasis).

Core courses:

PY 155 Introduction to Psychology (3)

PY 210 Lifespan Development (3)

PY 355 Psychology of Religion (2)

PY 364 Experimental Design and Statistical Analysis with Laboratory I (4)

PY 365 Experimental Design and Statistical Analysis with Laboratory II (4)

PY 396 Field Experience (1)

PY 411 Psychology of Learning with Laboratory (4)

PY 455 Social Psychology (3)

Psychology field test to be completed during the senior year.

Emphasis A (Scientist/Practitioner)

Objective: A course of study in general psychology for students who plan on graduate training in clinical psychology, experimental psychology or related fields. Practice in professional clinical psychology in many states requires, as a minimum, the master's degree. The following are prescribed in addition to the core requirements:

- PY 385 Biological Foundations of Behavior with Laboratory (4)
- PY 475 History and Systems of Psychology (2)
- BI 201 Human Anatomy and Physiology I (4); or,
BI 221 General Biology (5)
- PL 201 Introduction to Philosophy (3)
- PL 351 Philosophy of Science (2)
- Four elective psychology credits (PY 211 will not meet this requirement) (4)
- One year of a modern foreign language (8)

Emphasis B (Interdisciplinary)

Objective: To provide background for the understanding of human behavior needed by those students preparing for such vocational areas as education, social service, business, or the ministry. The following are prescribed in addition to the core requirements:

- PY 125 Psychology for Life (2)
- PY 274 Helping Skills (2)
- PY 345 Abnormal Psychology (3)
- PY 375 Counseling Theory (2)

Two of the following:

- PY 336 Child Psychology (2)
- PY 366 Adolescent Psychology (2)
- PY 376 Adult Psychology (2)
- PY 472 Group Theory and Processes (4)

Three elective psychology credits (PY 211 will not meet this requirement.) (3)

Eighteen credits in sociology, social work, practical theology, and Christian education selected in consultation with a psychology faculty advisor from the following courses:

- Any SO course except SO 365 (2-3)
- PT 171 Introduction to Christian Ministry (1)
- PT 271 Introduction to Missiology (3)
- PT 321 Spiritual Formation and Christian Discipleship (2)
- PT 322 Worship: Leadership I (2)
- PT 375 Urban Ministries (3)
- PT 378 Pastoral Care and Counseling I (2)
- CE 381 Children's Ministries (2)
- CE 382 Youth Ministries (2)
- CE 383 Adult Ministries (2)
- SW 172 Social Welfare in Contemporary Society (3)

- SW 211 Introduction to Social Work (3)
- SW 325 Substance Abuse, Prevention, and Intervention (3)
- SW 335 Child Welfare Services (3)
- SW 345 Gerontology and Geriatric Social Work (3)
- SW 494 Topics in Social Work (1)

Emphasis C (Industrial and Organizational)

Objective: This emphasis is designed for the person interested in working with the theory and methods of psychology within the business and/or industrial field. This course of study is appropriate for students interested in management, human resources and other integrated fields. The student will complete the following in addition to the core courses:

- PY 376 Adult Psychology (2)
- PY 461 Psychological Testing with Laboratory (4)
- PY 472 Group Theory and Processes (4)
- PY 497 Research (1)

Nine credits in Communication (9)

Suggested courses:

- CO 201 Small Group Communication (3)
- CO 203 Interpersonal Communication (3)
- CO 302 Organizational Communication (3)

Twelve credits in Business selected from:

- BU 341 Business Law I (3)
- BU 342 Business Law II (3)
- BU 351 Principles of Marketing (3)
- BU 364 Principles of Management (3)
- BU 365 Human Resources Management (3)
- BU 381 Business Ethics (3)
- BU 467 Organization Behavior (3)

MINORS

PSYCHOLOGY

Requirements: 21 credits in psychology, of which 11 shall be numbered above 299.

- PY 125 Psychology for Life (2)
- PY 155 Introduction to Psychology (3)
- PY 210 Lifespan Development (3)
- PY 364 Experimental Design and Statistical Analysis with Laboratory I (4)
- PY 411 Psychology of Learning with Laboratory (4)
- PY 455 Social Psychology (3)

Two elective credits in psychology (2)

Note: This minor will also meet the requirements for a second teaching field

CRIMINAL JUSTICE

Objective: The minor in criminal justice provides an introduction to the field of criminal justice and enables students to explore issues related to the nature and treatment of crime, the relationships among law, social order and social justice and the application of Christian principles to such issues.

Administrators: Director, Political Science Program; Chair, Department of Psychology and Sociology

Requirements: 24-26 credits, of which 13 shall be numbered above 299.

PS 103 The Foundations of Politics: The Quest for Peace and Justice (4)

PS 442 Civil Rights and Civil Liberties (4)

PY 125 Psychology for Life (2); or,

PY 155 Introduction to Psychology (3)

PY 345 Abnormal Psychology (3)

SO 243 Social Problems in Modern Society (2)

SO 252 Criminology (3); or,

SO 253 Juvenile Delinquency (3)

SO 318 Race, Class and Ethnicity (3)

One upper-division course in PY, SO, or PS (3-4)



SCHOOL OF HEALTH AND SCIENCE

Dean of the School of Health and Science: Dan Nogales

The School of Health and Science provides programs related to the sciences, mathematics, and health. Several of these programs lead directly to careers or professions, while others provide undergraduate preparation that may lead to additional study at the graduate or professional school level.

The six departments in this school are: Biology, Chemistry, Kinesiology, Mathematics and Computer Science, Nursing, and Physics. Majors and programs available in the school are:

Interdisciplinary Majors

Biology/Chemistry
Mathematics and Natural Science
Physical Science-Education

Pre-Engineering and Collaborative Engineering Programs

Three-Two Program
Four-Year Bachelor of Science Program
Two-Year and Freshman Programs

Pre-Professional Programs

Pre-Medical, Pre-Dental, Pre-Optometry, and
Pre-Veterinary Medicine
Pre-Dental Hygiene
Pre-Pharmacy

Biology

Biology
Biology-Education
Pre-Medical Technology
Pre-Physical Therapy
Physical Therapy Emphasis
Athletic Training Emphasis

Chemistry

Chemistry
Chemical Engineering Emphasis
Environmental Chemistry Emphasis
Chemistry-Education

Kinesiology

Kinesiology-Education

Recreation and Sport Management

Athletic Training Emphasis

Kinesiology/Coaching Emphasis

Sport Management Emphasis

Outdoor Recreation Emphasis

Mathematics and Computer Science

Computer Science

Mathematics

Mathematics-Education

Nursing

Nursing

Physics

Engineering Physics

Physics

Descriptions of majors, minors, second teaching fields, and other programs are found in this chapter, while course descriptions are found at the end of the catalog arranged alphabetically by discipline.

MAJORS

BACHELOR OF SCIENCE:

BIOLOGY / CHEMISTRY

Objective: A course of study that is suitable for application to Medical, Dental, Optometry Physician Assistant, Veterinary, and Graduate School in biology, biochemistry, or a career in the biotechnology research. This major is a joint degree with the Departments of Biology and Chemistry, and advisors may be from either the Biology or Chemistry Department.

Administrators: Chair, Department of Biology; Chair, Department of Chemistry

Requirements: 75-83 credits total, with a minimum 28 credits from Chemistry and 25 credits from Biology

BI 221, 222 General Biology (5 each)

BI 346 Cell Biology (4)

BI 372 Genetics (5)

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 321, 322 Organic Chemistry (4 each)

School of Health and Science

CM 341, 342 Biochemistry (4 each)

CM 345, 346 Laboratory for Biochemistry (1 each)

CM 497 Junior-Senior Project (1); or,

BI 397 Junior-Senior Project (1)*

CM/BI 498 Senior Seminar (1)**

MA 151 Survey of Calculus (3); or,

MA 251 Calculus I (4)

PH 111, 112 College Physics with Laboratory (5 each)

Choose four courses from the following. (Two courses must be biology.)

BI 304 Pharmacology (3)

BI 336 Vertebrate Comparative Anatomy (5)

BI 342 Microbiology (4)

BI 348 Pathogenic Microbiology (4)

BI 352 Developmental Biology (4)

BI 356 Endocrinology (3)

BI 362 Vertebrate Physiology (5)

BI 382 Pathophysiology (3)

BI 354 Immunology (4)

CM 261 Fundamentals of Analytical Chemistry (4)

CM 331 Inorganic Chemistry (5)

CM 351 Physical Chemistry for Chemistry and Biochemistry (5)

CM 361 Chemical and Biochemical Instrumentation (5)

For admission into Biochemistry Graduate School CM 261, CM 351 and CM 361 are recommended.

* A minimum of one credit is required, but a maximum of six credits in CM 497 or BI 397 will be allowed toward this major.

** CM/BI 498 must be taken at NNU

BACHELOR OF ARTS:

MATHEMATICS AND NATURAL SCIENCE

Objective: This major is designed for a student who wishes a broad background in science and mathematics.

Administrator: Dean, School of Health and Science

Requirements: 55 credits.*

BI 221, 222 General Biology (5 each)

CM 221, 222 General, Inorganic and Physical Chemistry (5 each)

MA 251, 252 Calculus I, II (4 each)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

BI, CM, MA or PH 498 Senior Seminar (1)**

Sixteen (16) additional credits numbered above 299; at least 8 of these 16 must be in one department and six in a second department.

*Not more than three credits in Introduction to Research or Junior-Senior Project allowed toward completion of this major.

**BI, CM, MA or PH 498 must be taken at NNU.

PHYSICAL SCIENCE-EDUCATION

Objective: A course of study for those who have an interest in sharing their knowledge in general science, physics, and chemistry with students in the middle, junior, and high school.

Administrators: Dean, School of Health and Science; Director, Teacher Education

TEACHING AREA

Requirements: 89-90 credits, including 37 in physical science.

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 261 Fundamentals of Analytical Chemistry (4)

CM 321 Organic Chemistry (4)

CM 390 Practicum: Laboratory Management (1)

CM 391 Practicum: Laboratory Safety (1)

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in Education (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 364 Teaching Science in the Secondary School (2)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching Middle School/Junior High School; or,

ED 487 Student Teaching in Senior High School (12)

ED 492 Foundations of Education (2)

MA 251 Calculus I (4)

School of Health and Science

NS 101 Descriptive Astronomy (3)

NS 111 Astronomy Laboratory (1)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

PH 313 Modern Physics (3)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

You will need 5 credits from CM, PH, NS, EG approved by your Faculty Advisor. Should include Junior/Senior Project and Senior Seminar (2-5).

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

Note: Most students require more than 8 semesters to complete this program.

SECOND TEACHING FIELD: PHYSICAL SCIENCE

Requirements: 29 credits in physical science.

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

One course selected from:

CM 261 Fundamentals of Analytical Chemistry (4)

CM 321 Organic Chemistry (4)

One course from CM, MA, PH, NS, or EG must be approved by your Faculty Advisor. This may include Junior/Senior Project and Senior Seminar. (2-5)

PRE-PROFESSIONAL PROGRAMS

Pre-Engineering

Pre-engineering programs are available in most fields of engineering including chemical, electrical, mechanical, civil, and aerospace. Students may choose one of three programs: (1) a three-two program; (2) a four year bachelor of science program in chemistry or engineering physics; or (3) two year or freshman year program.

The pre-engineering program is designed for those students planning to enroll as juniors at the University of Idaho, Walla Walla College, or Seattle Pacific University in engineering.

All the courses taken at NNU will transfer to most engineering colleges. NNU offers enough credits to complete the first two years of most engineering programs so that it is possible, with careful planning, to complete a degree in engineering two years after transferring.

The study of engineering requires a high degree of aptitude in mathematics and the physical sciences. A student interested in this field will benefit from a strong background of high school mathematics and courses in physics and chemistry.

Three-Two Program

Students may earn a Bachelor of Science degree in Applied Science from NNU and an engineering degree from a recognized college of engineering by (1) spending three years in residence at NNU, (2) completing all NNU requirements for the bachelor of science degree except those referring to the major, total credits, and total credits numbered above 299, and (3) successfully completing a program leading to a bachelor's degree at a college of engineering. Careful planning in choosing courses is required in order to complete both degrees after two years at the engineering school.

General degree requirements for NNU and basic requirements for an engineering school are normally fulfilled according to the following schedule:

Freshman year

- BL 111 Introduction to Biblical Studies (4)
- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- EG 121 Engineering Graphics (3)
- EG 344 Engineering Statics (3)
- EN 102 English Composition (3)
- MA 251, 252, 353 Calculus I, II, III (4, 4, 3)
- KI 100 Fundamentals of Wellness (1)
- Social Science Requirement Elective (4)

Sophomore year

- CS 122 Introduction to Computer Science (4)
- CS 222 Computer Programming In C++ (4)
- EC 241 Microeconomic Analysis (3); or,
- EC 242 Macroeconomic Analysis (3)
- EG 361 AC and DC Circuit Theory with Laboratory (5)
- EN 202 Research Writing and Critical Thinking (4)
- MA 354 Differential Equations (4)

School of Health and Science

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)
TH 211 Introduction to Christian Theology (4)
Humanities Requirement Electives (12)
Kinesiology activity (1)

Junior year

CO 121 Fundamentals of Speech (3)
PH 341 Analytic Mechanics (4)
Humanities Requirement Electives (12)
Social Science Requirements Electives (12)
Kinesiology activities (2)
Courses in field of engineering the student plan to pursue.

Chemical Engineering

CM 321,322 Organic Chemistry (4 each)
CM 351 Physical Chemistry for Chemistry and Biochemistry (5)

Electrical Engineering

EG 362 Analog Electronics with Laboratory (4)
EG 363 Digital Electronics with Laboratory (4)
MA 356 Numerical Analysis (3)
PH 461 Electricity and Magnetism (4)

Mechanical and Aerospace Engineering

EG 363 Digital Electronics with Laboratory (4)
MA 356 Numerical Analysis (3)
PH 351 Thermodynamics and Statistical Mechanics (4)

Civil and Environmental Engineering

EG 362 Analog Electronics with Laboratory (4)
NS 102 Environmental Science (3)
PH 351 Thermodynamics and Statistical Mechanics (4)

FOUR-YEAR BACHELOR OF SCIENCE PROGRAM

Chemistry

Students complete a Bachelor of Science degree in Chemistry and then enter a chemical engineering school to work toward an advanced degree. Students who elect this option should contact the chemical engineering school of their choice to learn of particular requirements.

Engineering Physics

The Engineering Physics curriculum is designed with a twofold purpose: to prepare students to enter professional engineering practice and to adequately prepare students for graduate studies in various engineering fields. The fundamental objective of this program is to provide students with a general engineering background of the highest possible caliber, enabling them to adjust to the rapid changes of our technological society and yet technical enough to allow students to enter professional practice directly. The curriculum includes course work in Physics, Mathematics, Computer Science, Electronics and Engineering.

Two-Year and Freshman-Year Programs

Northwest Nazarene University provides most of the courses necessary to complete the first two years of engineering school. Students may elect to transfer to an engineering school at the end of the freshman year or after two years at NNU. The student should select courses from the following list:

- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- EG 121 Engineering Graphics (3)
- EG 344 Engineering Statics (3)
- EN 102 English Composition
- MA 251, 252, 353 Calculus I, II, III (4, 4, 3)
- MA 354 Differential Equations (4)
- PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

Pre-Medical, Pre-Dental, Pre-Optometry, Pre-Physician Assistant, and Pre-Veterinary Medicine

The student is advised to prepare by taking at least two high school courses in laboratory science and three years of high school mathematics.

In planning a college program, students should follow the requirements and recommendations of the particular professional schools to which applications for admission are planned. All demand a high grade point average and other evidences of superior scholarship.

The students need not major in the sciences, provided they assure themselves, in consultation with the pre-professional advisor, that admission requirements are met.

The majority of professional schools require the following courses:

- BI 221, 222 General Biology (5 each)
- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- CM 321, 322 Organic Chemistry (4 each)
- EN 102 English Composition (3)
- MA 151 Survey of Calculus (3)

School of Health and Science

MA 251 Calculus I (4)

PH 111, 112 College Physics with Laboratory (5 each) or PH 211, 212

Physics for Science and Engineering with Laboratory (5 each)

As electives the student might consider additional courses in chemistry, biological science, mathematics, psychology, and sociology.

Pre-Dental Hygiene

Students interested in a career in the profession of dental hygiene can pursue the following curriculum at NNU for two years and then apply to a college or university that offers a Baccalaureate degree in Dental Hygiene. The following suggested schedule is designed for those students planning on enrolling as juniors at Idaho State University (ISU) in its dental hygiene program. Students wishing to transfer to another dental hygiene school should pattern their curriculum to the prerequisites of that specific school. However, the admission requirements for most dental hygiene schools are similar to those of ISU. An Introduction to Dental Hygiene course is required by ISU and can be taken as a correspondence course.

Suggested courses:

BI 201, 203 Human Anatomy and Physiology I, II (4 each)

BI 221 General Biology (Zoology) (5)

BI 342 Microbiology (4)

CM 121 Principles of General, Organic and Biochemistry (5)

CM 221 General, Inorganic and Physical Chemistry (5)

CO 121 Fundamentals of Speech (3)

EN 102 English Composition (3)

EN 202 Research Writing and Critical Thinking (3)

KI 273 Human Nutrition (3)

MA 130 College Algebra (3)

MA 224 Elementary Statistics (3)

SO 155 Introduction to Sociology (3)

PY 155 Introduction to Psychology (3)

PY 210 Life Span Development (3)

Two humanities elective courses (4-8)

Pre-Pharmacy

Students interested in a career in pharmacy can pursue their career by completing the following program recommended by Idaho State University (ISU) and then applying to their Doctor of Pharmacy (commonly called Pharm. D.) program. The complete program requires six years. Applications to ISU are due February 1 of the sophomore year and require that scores from the Pharmacy College Admissions Test (PCAT) be on file at that time.

Students wishing to consider other pharmacy programs should request pre-pharmacy program requirements from the school of interest and design their academic program to meet those specific requirements. However, admission requirements for most pharmacy programs are similar.

BI 221 General Biology (Zoology) (5)

BI 342 Microbiology (4)

BL 111 Introduction to Biblical Studies (4)

CM 221, 222 General, Inorganic and Physical Chemistry (5 each)

CM 321, 322 Organic Chemistry (4 each)

CO 121 Fundamentals of Speech (3)

EC 242 Macroeconomic Analysis (2)

EN 102 English Composition (3)

EN 202 Research Writing and Critical Thinking (3)

KI 100 Fundamentals of Wellness (1)

MA 151 Survey of Calculus (3); or,

MA 251 Calculus I (4)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each); or,

PH 111, 112 College Physics with Laboratory (5 each)

TH 211 Introduction to Christian Theology (4)

Recommended Course:

BI 222 General Biology (Genetics, Botany, Ecology) (5)

COUNCIL FOR CHRISTIAN COLLEGES AND UNIVERSITIES

SPONSORED PROGRAMS

The coalition Semester Studies Program includes a Tropical and Global Sustainability track in Costa Rica as part of its Latin American Studies Program.

AFFILIATED PROGRAM

Au Sable Institute Of Environmental Studies

Northwest Nazarene University offers several field biology courses: ecology, mammalogy, ornithology, plant taxonomy, and plant and animal ecology. To increase the available opportunities for students interested in the environment and conservation, the university is affiliated with the Au Sable Institute. Students may take Au Sable courses that are counted as electives in the NNU biology and chemistry majors.

The basic mission of the Au Sable Institute is to teach and promote responsible care and use of the Creation and its creatures. Students have an opportunity to take courses at

School of Health and Science

the main campus in the Great Lakes Forest of northern Michigan, on Whidbey Island in the Puget Sound of Washington, by Chesapeake Bay, Africa and India. Students who complete an integrated program with Au Sable can receive one of several Institute Certificates: Stewardship Ecologist, Naturalist, Land Resources Analyst, or Environmental Analyst from the state of MI. Each participating college is allotted financial aid for its students who attend. (<http://www.ausable.org>) Interested students should contact the Department Chair of Biology.

Below are listed the course numbers and titles of the topics regularly taught at Au Sable Institute of Environmental Studies. Each course emphasizes Christian stewardship of natural resources as its integrative theme.

- BIOL/GEOG 266 Natural History of the Pacific Northwest
- BIOL/GEOL/GEOG 301 Land Resources
- BIOL 302 Limnology (Water Resources)
- BIOL/GEOG 303 Natural Resources Practicum
- BIOL/GEOG 304 Natural Resources Practicum: Global Development and Ecological Sustainability
- BIOL 305 Ornithology
- BIOL 311 Field Botany
- BIOL 312 Insect Biology and Ecology
- BIOL 315 Woody Plants
- BIOL 321 Animal Ecology
- BIOL 322 Aquatic Biology
- BIOL 342 Fish Biology and Ecology
- BIOL 361 Natural History in Spring
- BIOL 377 Marine Invertebrates
- BIOL 411 Advanced Field Botany
- BIOL 417 Marine Stewardship
- BIOL 427 Ecology of the Indian Tropics
- BIOL/GEO 471 Conservation Biology
- BIOL 477 Plant Ecology
- BIOL 482 Restoration Ecology
- CHEM 332 Environmental Chemistry
- GEOL/GEOG 217 Field Geology of the Pacific Northwest
- GEOG 216 Field Geology

Students can earn certification in one of the following areas designed to prepare students for employment or graduate study: (1) Interpretive Naturalist, (2) Water Resource Analyst, (3) Land Resource Analyst, and (4) Environmental Analyst (see Au Sable Institute Bulletin)

DEPARTMENT OF BIOLOGY

Faculty: Thomas Mangum (Department Chair), John Cossel, Jr., William Fyffe, Chris Kapicka, Leon Powers

MAJORS

BACHELOR OF SCIENCE:

BIOLOGY

Objective: To prepare students for graduate school in biological sciences or professional school in the health sciences (e.g., medical, dental, etc.)

Administrator: Chair, Department of Biology

Requirements: 75-78 credits, including 32-34 credits in biology.

BI 221, 222 General Biology (5 each)

BI 372 Genetics (5)

BI 498 Senior Seminar (1)**

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 321, 322 Organic Chemistry (4 each)

MA 151 Survey of Calculus (3); or,

MA 251 Calculus I (4)

PH 111, 112 College Physics with Laboratory (5 each); or,

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

Three courses selected from:

BI 324, Plant and Animal Ecology (5)

BI 336 Vertebrate Comparative Anatomy (5)

BI 342 Microbiology (4)

BI 346 Cell Biology (4)

BI 362 Vertebrate Physiology (5)

Fifteen (15) additional upper-division credits in science and mathematics with at least three in biology. *

Five upper division laboratories in biology are required.

*A maximum of six credits in BI 397 will be allowed toward this major.

**BI 498 must be taken at NNU.

BIOLOGY (PRE-MEDICAL TECHNOLOGY)

Objective: To prepare students for professional training as medical technologists. Using scientific procedures, medical technologists work in laboratories performing tests to help physicians diagnose and treat illness.

Administrator: Chair, Department of Biology

Preliminary Statement: Most schools of medical technology, including the one in Idaho, now require a bachelor's degree before admission to the professional year. The major program described below is designed to meet the specific prerequisites for admission to most schools of medical technology.

Requirements: 83-84 credits

- BI 221, 222 General Biology (5 each)
- BI 336 Vertebrate Comparative Anatomy (5)
- BI 342 Microbiology (4)
- BI 348 Pathogenic Microbiology (4)
- BI 354 Immunology (4)
- BI 351 Studies in Histology (1)
- BI 362 Vertebrate Physiology (5)
- BI 372 Genetics (5)
- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- CM 261 Fundamentals of Analytical Chemistry (4)
- CM 321, 322 Organic Chemistry (4 each)
- CM 341 Biochemistry (4)
- CM 345 Laboratory for Biochemistry (1)
- CM 361 Chemical and Biochemical Instrumentation (5)
- MA 151 Survey of Calculus (3); or,
MA 251 Calculus I (4)
- PH 111, 112, College Physics with Laboratory (5 each)

Strongly recommended:

- BU 364 Principles of Management (3); or,
BU 365 Human Resource Management (3)
- MA 224 Elementary Statistics (3)

General Information: Upon a student's completion of the Bachelor of Science Program at NNU, application is made to medical technology schools. The enrollments at these schools are fixed, and students must compete for these positions. Schools of medical technology usually are of a twelve-month duration. Following successful completion of that year-long training, most hospitals grant a certificate to their graduated students who are then eligible to take a national registry examination conducted by the Board of Registry of Medical Technologists.

PRE-PHYSICAL THERAPY

Objective: To prepare the student for graduate studies in physical therapy or athletic training. The enrollments at the graduate schools are fixed, and students must compete for these positions.

Administrators:

Physical Therapy Emphasis: Chair, Biology Department

Athletic Training Emphasis: Chair, Kinesiology Department

Requirements: Completion of prescribed core plus requirements of one emphasis.

Physical Therapy Emphasis – 82-93 credits: 24-35 upper division.

Athletic Training Emphasis – 81-89 credits: 21-29 upper division.

Core Requirements:

BI 201, 203 Human Anatomy and Physiology I, II (4 each)

BI 221, 222 General Biology (5 each)

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CS 122 Introduction to Computer Science (4)

KI/BI 196 Clinical Observation (1)

KI 241 Introduction to Athletic Training and Physical Therapy with Laboratory (3)

MA 224 Elementary Statistics (3)

PH 111, 112, College Physics with Laboratory (5 each); or,

PH 211, 212, Physics for Science and Engineering with Laboratory (5 each)

PY 155 Introduction to Psychology (3)

Physical Therapy Emphasis

BI 496 Internship in Physical Therapy (1) (4 required)

MA 130 College Algebra (3); or,

MA 151 Survey of Calculus (3)

SO 318 Race, Class and Ethnicity (3); or,

SO 334 Sociology of the Family (3)

PY 210 Lifespan Development (3)

PY 345 Abnormal Psychology (3)

It is recommended that the student carefully review the admission requirements of the Physical Therapy graduate programs they intend to seek admission to before selecting these courses.

Choose six (6) courses from the following groups. At least two (2) from each group;

Group One

- BI 336 Vertebrate Comparative Anatomy (5)
- BI 342 Microbiology (4)
- BI 350 Bioethics (2); or,
- BI 360 Clinical Ethics (2)
- BI 351 Studies in Histology (1)
- BI 362 Vertebrate Physiology (5)
- BI 372 Genetics (5)
- BI 382 Pathophysiology (3)
- CM 321, 322 Organic Chemistry (4 each)

Group Two

- KI 344 Advanced Athletic Training (3)
- KI 360 Motor Development and Motor Learning (2)
- KI 361 Physiology of Exercise (3)
- KI 362 Biomechanics and Structural Anatomy (3)
- KI 456 Administration and Supervision of HPERA (3)

Athletic Training Emphasis

- KI 141 First Aid/CPR (1)
- KI 243 Health Issues in Today's Society (3)
- KI 273 Human Nutrition (3)
- KI 296 Field Experience in Kinesiology (1)
- KI 344 Advanced Athletic Training (3)
- KI 361 Physiology of Exercise (3)
- KI 362 Biomechanics and Structural Anatomy (3)
- KI 363 Corrective and Adaptive Physical Education (2)
- KI 495 Internship in Athletic Training (1) (3 required)

Choose three (3) courses from the following:

- BI 336 Vertebrate Comparative Anatomy (5)
- BI 342 Microbiology (4)
- BI 350 Bioethics (2)
- BI 351 Studies in Histology (1)
- BI 362 Vertebrate Physiology (5)
- BI 372 Genetics (5)
- CM 321, 322 Organic Chemistry (4 each)

BACHELOR OF ARTS:

BIOLOGY

Objective: Designed for the student who has goals other than graduate school or teaching.

Administrator: Chair, Department of Biology

Requirements: 45-51 credits including 29-35 credits in biology. *

BI 221, 222 General Biology (5 each)

BI 372 Genetics (5)

MA 130 College Algebra (3)

MA 224 Elementary Statistics (3)

Three courses selected from:

BI 324, Plant and Animal Ecology (5)

BI 336 Vertebrate Comparative Anatomy (5)

BI 342 Microbiology (4)

BI 346 Cell Biology (4)

BI 362 Vertebrate Physiology (5)

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

One additional upper division biology course (1-5)

*A maximum of four credits in BI 397 will be allowed toward the major.

BIOLOGY-EDUCATION

Objective: To prepare students to teach at the secondary level.

Administrators: Chair, Department of Biology; Director, Teacher Education

TEACHING AREA

Requirements: For Secondary Certificate (6-12) with a Teaching Area, 104-105 credits including 44 credits in biology of which six must be in botany and six in zoology.

BI 221, 222 General Biology (5 each)

BI 372 Genetics (5)

One course selected from:

BI 312 Ornithology (3)

BI 314 Mammalogy (4)

BI 316 Plant Taxonomy (3)

School of Health and Science

Note: The laboratories for BI 312 Ornithology and BI 316 Plant Taxonomy are offered in May, after the end of spring semester.

Three courses selected from:

- BI 324 Plant and Animal Ecology (5)
- BI 342 Microbiology (4)
- BI 346 Cell Biology (4)
- BI 352 Developmental Biology (4)
- BI 362 Vertebrate Physiology (5)

Elective biology credits for total of 44*

CM 221, 222 General, Inorganic and Physical Chemistry (5 each)

CM 391 Practicum: Laboratory Safety (1)

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 364 Teaching Science in the Secondary School (2)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle School/Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

MA 130 College Algebra (3) (or equivalent)

MA 224 Elementary Statistics (3)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

*A maximum of four credits in BI 397 will be allowed toward the major.

Note: Most students require more than 8 semesters to complete this program.

FIRST TEACHING FIELD

Administrators: Chair, Department of Biology; Director, Teacher Education

Requirements: For Secondary Certificate (6-12) with a First Teaching Field. 110-111 credits, including 30 credits in biology (6 must be in botany and 6 in zoology) and a minimum of 20 credits in a second teaching field.

BI 221, 222 General Biology (5 each)

BI 372 Genetics (5)

One course selected from:

BI 312 Ornithology (3)

BI 314 Mammalogy (4)

BI 316 Plant Taxonomy (3)

Note: The laboratories for BI 312 Ornithology and BI 316 Plant Taxonomy are offered in May after the end of second semester.

Three courses selected from:

BI 324 Plant and Animal Ecology (5)

BI 342 Microbiology (4)

BI 346 Cell Biology (4)

BI 352 Developmental Biology (4)

BI 362 Vertebrate Physiology (5)

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 391 Practicum: Laboratory Safety (1)

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 364 Teaching Science in the Secondary School (2)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle School/Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

MA 130 College Algebra (3) (or equivalent)

MA 224 Elementary Statistics (3)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

* A maximum of four credits in BI 397 will be allowed toward the major.

Note: Most students require more than 8 semesters to complete this program.

MINOR

ENVIRONMENTAL SCIENCE

Objective: To provide the student with an introduction to a Christian stewardship view of environmental science which supports their major field of study and the university's philosophy: "Students will grow to understand and appreciate the human responsibility in God's creation".

Administrator: Chair, Department of Biology

Requirements: 24-27 credits, of which 12 must be above 299 and which includes at least three courses through Au Sauble Institute of Environmental Studies.

BI 324 Plant and Animal Ecology (5)

BI 397 Junior/Senior Project (1); or,

CM 397 Junior/Senior Project (1) (2 required)

BI 498 Senior Seminar (1); or,

CM 398 Senior Seminar (1)

Nine to Twelve credits at Au Sable (9-12)

Seven credits taken in consultation with major advisor (7)

SECOND TEACHING FIELD: BIOLOGY

Requirements: 24 credits in biology, including six credits each in botany and zoology.

BI 211, 222 General Biology (5 each)

BI 372 Genetics (5)

Nine elective biology credits to include one botany and one zoology course

DEPARTMENT OF CHEMISTRY

Faculty: Jennifer Chase (Department Chair), D. Timothy Anstine, Dave Redfield, Daniel Nogales

MAJORS

BACHELOR OF SCIENCE:

CHEMISTRY

Objective: An in-depth course of study in the principle areas of chemistry. It is designed to meet or surpass the minimum requirements for application to graduate schools in chemistry or biochemistry without significant deficiencies. This course of study also provides a background consistent with requirements for entry positions in allied medical programs, government, and chemical industry.

Administrator: Chair, Department of Chemistry

Requirements: 73 credits, including 55 credits in chemistry.

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 261 Fundamentals of Analytical Chemistry (4)

CM 321, 322 Organic Chemistry (4 each)

CM 331 Inorganic Chemistry (5)

CM 341, 342 Biochemistry (4 each)

CM 345 Laboratory for Biochemistry (1)

CM 351 Physical Chemistry of Chemistry and Biochemistry (5)

CM 361 Chemical and Biochemical Instrumentation (5)

CM 394 Topics in Chemistry (1)

CM 451 Advanced Physical Chemistry (4)

CM 471 Structure Elucidation (1)

CM 472 Advanced Organic Chemistry (1)

CM 497 Junior-Senior Project (1) *

CM 498 Senior Seminar (1) **

MA 251, 252 Calculus I, II (4 each)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

Strongly recommended:

CM 346 Laboratory for Biochemistry (1)

MA 354 Differential Equations (4)

In addition to the above requirements, the student will be required to successfully pass an oral examination or a written subject exam in the field of chemistry.

* A minimum of one credit is required, but a maximum of six credits in CM 497 will be allowed toward the major.

** CM 498 must be taken at NNU.

BACHELOR OF ARTS:

CHEMISTRY

Objective: A course of study that introduces the student to the principle areas of chemistry with depth in one or more areas and an emphasis in an interdisciplinary area or subdiscipline. Intended for those who plan careers or graduate studies in the areas of emphasis, including entry-level positions in chemical or biotechnical industries, allied medical fields, forensics and government.

Administrator: Chair, Department of Chemistry

Requirements: Completion of prescribed core courses (48 credits) plus the requirements for one area of emphasis (20-27 credits), or the core courses plus a minor approved by the department chair. Minors may include but are not limited to Computer Science, Business or other approved fields.

Core Courses:

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 261 Fundamentals of Analytical Chemistry (4)

CM 321, 322 Organic Chemistry (4 each)

CM 331 Inorganic Chemistry (5)

CM 341 Biochemistry (4)

CM 351 Physical Chemistry for Chemistry and Biochemistry (5)

CM 361 Chemical and Biochemical Instrumentation (5)

CM 394 Topics in Chemistry (1)

CM 497 Junior-Senior Project (1) *

CM 498 Senior Seminar (1)**

MA 251 Calculus I, (4)

* A minimum of one credit is required, but a maximum of six credits in CM 497 will be allowed toward the major.

** CM 498 must be taken at NNU.

Areas of Emphasis require a minimum of 20 credits in interdisciplinary courses, which as a package augment the study of a chemistry sub-discipline. A fully developed program will include recommended as well as required courses. Scheduling conflicts, however, can interfere with class schedules, preventing their timely completion; therefore, all appropriate courses are not strictly required and some substitution for required courses may be allowed. Those planning to apply to enter graduate schools in areas of emphasis should request admissions requirements and expectations for schools

of interest before completing the sophomore year. Any of these emphases require course plans to be evaluated and approved yearly by the Chemistry Department Chair. (Certain inter-disciplinary courses of those recommended or required also meet general education requirements.)

Chemical Engineering Emphasis

For the student who is interested in adding an engineering component to a strong chemistry program. May lead to entry to graduate engineering schools with minimum deficiencies.

Prescribed:

EG 344 Engineering Statics (3)

MA 252 Calculus II (4)

MA 354 Differential Equations (4)

PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)

PH 481 Fundamentals of Quantum Mechanics (4)

Recommended:

EG 361 AC and DC Circuit Theory with Laboratory (4)

PH 351 Thermodynamics and Statistical Mechanics (4)

Environmental Chemistry Emphasis

For the student who is interested in the inter-relationships of science-politics-culture. Provides a strong chemistry background with introduction to related fields of study. Enrollment in Au Sable Institute of Environmental Studies (through the Coalition for Christian Colleges and Universities) is strongly encouraged and credits earned will substitute for prescribed credits for this emphasis.

Requirements: 22-25 credits beyond courses in the chemistry BA core curriculum of which at least nine credits must be taken at Au Sable Institute of Environmental Studies.

BI 324 Plant and Animal Ecology (5)

CM 497 Junior/Senior Project (1)

Nine to Twelve credits at Au Sable (9-12)

Seven credits taken in consultation with major advisor (7)

Forensics Emphasis

For the student who is interested in pursuing a career in forensics and/or criminology. Courses provide a solid foundation in the physical sciences, exploration in areas of significance to a forensics laboratory, including an internship, as well as advanced public speaking to enhance the ability to testify in court as a forensics expert.

Prescribed:

- BI 221, 222 General Biology (5 each)
- BI 372 Genetics (5)
- CM 345 Laboratory for Biochemistry (1)
- CO 321 Advanced Public Speaking (3)
- PS 411 Constitutional Law (4) or
PS 442 Civil Rights and Civil Liberties (4)
- PY 155 Introduction to Psychology (3)
- PY 345 Abnormal Psychology (3)
- SO 243 Social Problems in Modern Society (2)
- SO 252 Criminology (3)

CHEMISTRY-EDUCATION

Objective: A course of study intended for those who have an interest in education and in sharing their knowledge of science in general, and chemistry in particular, with students at the secondary level, grades 7-12. Both a first and second teaching field are required to meet certification requirements. Certain requirements and checkpoints are set by the Department of Education and administered by the Department Chair, Education Department. Successful completion and recommendation by the Education Department will result in a standard secondary teaching license, which will allow the student to teach in the first or second teaching fields. Refer also to the education section of this catalog.

Administrators: Chair, Department of Chemistry; Director, Teacher Education

TEACHING AREA

Requirements: For Secondary Certificate (6-12) with a Teaching Area 97-100 credits including 40 credits for chemistry.

- CM 111 Chemistry and Society (4)
- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- CM 261 Fundamentals of Analytical Chemistry (4)
- CM 321 Organic Chemistry (4)
- CM 361 Chemical and Biochemical Instrumentation (5)
- CM 341 Biochemistry (4)
- CM 390 Practicum: Laboratory Management (1)
- CM 391 Practicum: Laboratory Safety (1)
- CM 394 Topics in Chemistry (1)

Choose one from:

- CM 372 Organic Chemistry (4)
- CM 351 Physical Chemistry of Chemistry and Biochemistry (5)
- CM 497 Junior-Senior Project (1)*

- CM 498 Senior Seminar (1)
- CO 121 Fundamentals of Speech (3)
- ED 110 Introduction to Teaching (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in Secondary School (3)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 364 Teaching Science in the Secondary School (2)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the Senior High School (12)
- ED 492 Foundations of Education (2)
- MA 224 Elementary Statistics (3)
- MA 251 Calculus I (4)
- PH 211 Physics for Science and Engineering with Laboratory (5); or,
PH 111 College Physics with Laboratory (5)
- PL 351 Philosophy of Science (2)
- PY 155 Introduction to Psychology (3)
- PY 211 Educational Psychology (3)
- One multi-culture course selected from:**
 - EN 427 Minority Voices in American Literature (3)
 - SO 203 Cultural Anthropology I (2)
 - SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

Recommended:

- BI 324 Plant and Animal Ecology (5)
- NS 101 Descriptive Astronomy (3)
- NS 102 Environmental Science (3)
- NS 103 Earth Science (3)

12 units in chemistry must be taken at NNU, including: CM 390, 391, 394, 497 and 498.

* A maximum of six credits in CM 497 will be allowed toward the major.

FIRST TEACHING FIELD

Requirements: For Secondary Certificate (6-12) with a First Teaching Field: 103-105 credits including 35 credits in chemistry and a minimum of 20 credits in a second teaching field.

- CM 111 Chemistry and Society (4)
- CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
- CM 261 Fundamentals of Analytical Chemistry (4)
- CM 321 Organic Chemistry (4)
- CM 361 Chemical and Biochemical Instrumentation (5)
- CM 341 Biochemistry (4)
- CM 390 Practicum: Laboratory Management (1)
- CM 391 Practicum: Laboratory Safety (1)
- CM 497 Junior-Senior Project (1)*
- CM 498 Senior Seminar (1)
- CO 121 Fundamentals of Speech (3)
- ED 110 Introduction to Education (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in Secondary School (3)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 364 Teaching Science in the Secondary School (2)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/Junior High School (12); or,
ED 487 Student Teaching in the Senior High School (12);
- ED 492 Foundations of Education (2)
- MA 251 Calculus I (4)
- PL 351 Philosophy of Science (2)
- PY 155 Introduction to Psychology (3)
- PY 211 Educational Psychology (3)
- One multi-culture course selected from:**
 - EN 427 Minority Voices in American Literature (3)
 - SO 203 Cultural Anthropology I (2)
 - SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

Recommended:

BI 324 Plant and Animal Ecology (5)

NS 101 Descriptive Astronomy (3)

NS 102 Environmental Science (3)

NS 103 Earth Science (3)

12 credits in chemistry must be taken at NNU including CM 390, 391, 394, 497 and 498.

* A maximum of six credits in CM 497 will be allowed toward the major.

MINOR

CHEMISTRY

Objective: The chemistry minor is a combination of the core courses found in the area of chemistry. This minor will provide the student with a broad understanding of the field along with skills for laboratory work in chemistry.

Requirements: 24-25 credits in chemistry, of which 10-15 will be upper division.

CM 221, 222 General, Inorganic and Physical Chemistry (5 each)

CM 321, 322 Organic Chemistry (4 each)

CM 471 Structure Elucidation (1)

CM 472 Advanced Organic Chemistry (1)

CM 262 Fundamentals of Analytical Chemistry (4); or,

CM 361 Chemical and Biochemical Instrumentation (5)

SECOND TEACHING FIELD: CHEMISTRY

Requirements: 21 credits in chemistry.

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

CM 261 Fundamentals of Analytical Chemistry (4)

CM 321 Organic Chemistry (4)

CM 390 Practicum: Laboratory Management (1)

CM 391 Practicum: Laboratory Safety (1)

CM 394 Topics in Chemistry (1)

Recommended:

CM 111 Chemistry and Society (4)

CM 341 Biochemistry (4)

Five credits in chemistry must be taken at NNU including CM 390, 391 and 394.

DEPARTMENT OF KINESIOLOGY

Faculty: Scott Armstrong (Department Chair), Roger Schmidt

MAJORS

BACHELOR OF ARTS:

KINESIOLOGY-EDUCATION

Objective: To prepare students to teach Physical Education by providing a knowledge of kinesiology, recreational skills, athletic games, and health guidelines.

Administrator: Chair, Kinesiology Department

TEACHING AREA

Requirements: For Secondary Certification (6-12) with Teaching Area: 92-94 total credits—46-47 credits in Kinesiology, of which 27-30 shall be numbered above 299.

 KI 131 Introduction to Recreation and Kinesiology (3)

 KI 141 First Aid/CPR (1)

Choose one of the following, or Current Certification

 KI 124 Lifeguarding (1)

 KI 224 Water Safety Instruction (1)

Choose one of the following:

 KI 241 Introduction to Athletic Training and Physical Therapy and Laboratory (3)

 KI 243 Health Issues in Today's Society (3)

 KI 273 Human Nutrition (3)

 KI 264 Kinesiology Majors Activity Laboratory (1) (8 required)

 KI 296 Field Experience in Kinesiology (1)

 KI 332 Teaching Health in the Elementary Schools (2)

 KI 334 Teaching Physical Education in the Elementary Schools (2)

 KI 352 Teaching Health in the Secondary Schools (2)

 KI 354 Teaching Physical Education in the Secondary Schools (2)

 KI 356 Psychology and Techniques of Coaching (3)

 KI 360 Motor Development and Motor Learning (2)

 KI 361 Physiology of Exercise (3)

 KI 362 Biomechanics and Structural Anatomy (3)

 KI 363 Corrective and Adaptive Physical Education (2)

 KI 452 Tests and Measurements in Physical Education (3)

KI 456 Administration and Supervision in HPERA (3)

Choose one of the following:

KI 285 Camping Administration and Outdoor Education (3)

KI 385 Planning and Facilities Management (3)

KI 485 Recreation and Sport Management (2)

BI 201 Human Anatomy and Physiology I (4)

BI 203 Human Anatomy and Physiology II (4)

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle/Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

All majors are required to participate for one season in an intercollegiate sport as a participant, trainer, or manager for a team. Majors are also required to pass fitness component tests as set forth by the Department of Kinesiology.

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

Note: Students may require more than 8 semesters to complete this program.

FIRST TEACHING FIELD

Requirements: For Secondary Certificate (6-12) with First Teaching Field - total credits 111-112 including 41 semester credits in Kinesiology of which 24 shall be numbered above 299 and a minimum of 20 credits in a second teaching field.

KI 131 Introduction to Recreation and Kinesiology (3)

KI 141 First Aid/CPR (1)

Choose one of the following, or Current Certification

KI 124 Lifeguarding (1)

KI 224 Water Safety Instruction (1)

Choose one of the following:

KI 241 Introduction to Athletic Training and Physical Therapy with Laboratory (3)

KI 243 Health Issues in Today's Society (3)

KI 273 Human Nutrition (3)

KI 264 Kinesiology Majors Activity Laboratory (1) (8 required)

KI 296 Field Experience in Kinesiology (1)

KI 334 Teaching Physical Education in the Elementary Schools (2)

KI 354 Teaching Physical Education in the Secondary Schools (2)

KI 356 Psychology and Techniques of Coaching (3)

KI 360 Motor Development and Motor Learning (2)

KI 361 Physiology of Exercise (3)

KI 362 Biomechanics and Structural Anatomy (3)

KI 363 Corrective and Adaptive Physical Education (3)

KI 452 Tests and Measurements in Physical Education (3)

KI 456 Administration and Supervision in HPERA (3)

BI 201 Human Anatomy and Physiology I (4)

BI 203 Human Anatomy and Physiology II (4)

CO 121 Fundamentals of Speech (3)

ED 110 Introduction to Teaching (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 335 Teaching Health in the Secondary Schools (2)

ED 337 Teaching Health in the Elementary Schools (2)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle/Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

All majors are required to participate for one season in an intercollegiate sport as a participant, trainer, or manager for a team. Majors are also required to pass fitness component tests as set forth by the Department of Kinesiology.

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and skill should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

Note: Students may require more than 8 semesters to complete this program.

SECOND TEACHING FIELD: KINESIOLOGY

Requirements: 25 credits

- KI 243 Health Issues in Today's Society (3)
- KI 264 Kinesiology Majors Activity Laboratory (1) (4 required)
- KI 354 Teaching Physical Education in the Secondary Schools (2)
- KI 356 Psychology and Techniques of Coaching (3)
- KI 360 Motor Development and Motor Learning (2)

Select one course from:

- KI 361 Physiology of Exercise (3)
- KI 362 Biomechanics and Structural Anatomy (3)
- KI 363 Corrective and Adaptive Physical Education (2)
- KI 452 Tests and Measurements in Physical Education (3)
- KI 456 Administration and Supervision of HPERA (3)

Recommended:

- KI 141 First Aid/CPR (1)
- KI 241 Introduction to Athletic Training and Physical Therapy with Laboratory (3)
- KI 334 Teaching Physical Education in the Elementary Schools (2)
- BI 201 Human Anatomy and Physiology I (4)
- BI 203 Human Anatomy and Physiology II (4)

SECOND TEACHING FIELD: HEALTH EDUCATION

Requirements: 22-25 credits

- KI 141 First Aid/CPR (1)
- KI 243 Health Issues in Today's Society (3)
- KI 273 Human Nutrition (3)
- KI 296 Field Experience in Kinesiology (1)
- KI 332 Teaching Health in the Elementary Schools (2)
- KI 352 Teaching Health in the Secondary Schools (2)
- KI 456 Administration and Supervision of HPERA (3)

One course selected from:

- BI 201 Human Anatomy and Physiology I (4)
- BI 203 Human Anatomy and Physiology II (4)
- NS 102 Environmental Science (3)

Select one course from:

- PY 125 Psychology for Life (2)
- PY 336 Child Psychology (2)
- PY 345 Abnormal Psychology (2)
- PY 366 Adolescent Psychology (3)

Select one course from:

- SO 132 Family Relationships (2)
- SO 334 Sociology of the Family (3)

RECREATION AND SPORT MANAGEMENT

Administrator: Chair, Kinesiology Department

Requirements: 78-88 credits, including completion of core courses (63-67) credits and one area of emphasis 15-21 credits. 44 credits in Kinesiology of which 26 shall be numbered above 299. All majors are required to pass fitness component tests as set forth by the Kinesiology Department.

Core courses:

- KI 131 Introduction to Recreation and Kinesiology (3)
- KI 141 First Aid/CPR (1)

Choose one of the following, or Current Certification:

- KI 124 Lifeguarding (1)
- KI 224 Water Safety Instruction (1)
- KI 264 Kinesiology Majors Activity Laboratory (1) (8 required)
- KI 275 Outdoor Pursuits (1) (2 required)
- KI 285 Camp Administration and Outdoor Education (3)
- KI 296 Field Experience in Kinesiology (1)
- KI 334 Teaching Physical Education in the Elementary Schools (2)
- KI 363 Corrective and Adaptive Physical Education (2)
- KI 385 Planning and Facilities Management (3)
- KI 396 Field Experience in Kinesiology/Recreation (1)
- KI 456 Administration and Supervision of HPERA (3)
- KI 485 Recreation & Sports Management (2)
- KI 496abcd Recreation and Sport Internship (3) (12 required)
- SO 155 Introduction to Sociology (3)
- PY 155 Introduction to Psychology (3)
- BU 364 Principles of Management (3)

One course selected from:

PS 105 Introduction to International Relations (4)

PY 455 Social Psychology (3)

One course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

Two courses selected from:

AR 104 Drawing I (4)

AR 135 Graphic Design I (3)

AR 205 Ceramics I (3)

AR 335 Graphic Design II (3)

ED 334 Teaching Music in the Elementary School (2)

CO 260 Introduction to Directing (3)

Athletic Training Emphasis (17-21 credits)

KI 196 Clinical Observation (1)

Four courses selected from:

BI 201 Human Anatomy and Physiology I (4)

BI 203 Human Anatomy and Physiology II (4)

KI 241 Introduction to Athletic Training and Physical Therapy with Laboratory (3)

KI 243 Health Issues in Today's Society (3)

KI 273 Human Nutrition (3)

KI 344 Advanced Athletic Training (3)

Two courses selected from:

KI 360 Motor Development and Motor Learning (2)

KI 361 Physiology of Exercise (3)

KI 362 Biomechanics and Structural Anatomy (3)

Kinesiology/Coaching Emphasis (17-19 credits)

(Selected 17-19 credits from the list below)

KI 241 Introduction to Athletic Training and Physical Therapy with Laboratory (3)

KI 273 Human Nutrition (3)

KI 344 Advanced Athletic Training (3)

KI 356 Psychology and Techniques of Coaching (3)

KI 334 Teaching Physical Education in the Elementary Schools (2)

KI 360 Motor Development and Motor Learning (2)

KI 361 Physiology of Exercise (3)

KI 362 Biomechanics and Structural Anatomy (3)

KI 456 Administration and Supervision of HPERA (3)

Sport Management Emphasis (15 credits)

(Select 15 credits from the list below)

- AC 106 Financial Accounting (3)
- EC 241 Microeconomic Analysis (3)
- EC 415 Financial Economics (3)
- BU 217 Computer Applications in Business (3)
- BU 351 Principles of Marketing (3)
- BU 353 Marketing Communications (3) prerequisite-BU 351
- BU 364 Principles of Management (3)
- BU 365 Human Resource Management (3)
- BU 381 Business Ethics (3)
- BU 461 Entrepreneurship (3)

Outdoor Recreation Emphasis (18-21 credits)

Five courses selected from:

- BI 312/313 Ornithology and Laboratory (3,1)
- BI 314 mammalogy (4)
- BI 316/317 Plant Taxonomy and Laboratory (3,1)
- BI 324 Plant and Animal Ecology (5)
- BI 420 Birds of Prey* (3)
- NS 102 Environmental Science (3)
- NS 101/113 Descriptive Astronomy and Laboratory (3,1)
- NS 103/113 Earth Science and Laboratory (3,1)

* **Note:** This is a continuing education course that counts for undergraduate credit.

DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE

Faculty: Edward Korntved (Department Chair), Robert DeCloss, Gary Ganske, Barry Myers, Kenneth Yoder

For computer applications courses in the areas of DOS, Windows, word processing, and spreadsheets see, ST 131, ST 132, ST 133, ST 134, and ST 135.

Advanced Placement Credit: The Mathematics and Computer Science Department will grant a student who receives a score of 4 or 5 on the AP Calculus Exam a maximum of 4 semester credits.

MAJORS

BACHELOR OF SCIENCE:

COMPUTER SCIENCE

Objective: This program prepares one for further study in the technology and application of computing or a career in science or industry.

Administrator: Chair, Department of Mathematics and Computer Science

Requirements: 70-71 credits, including 50 in computer science.

- CS 122 Introduction to Computer Science (4)
- CS 222 Computer Programming in C++ (4)
- CS 226 Event-Driven Programming (4)
- CS 263 Assembly Language Programming (3)
- CS 275 Data Structures (3)
- CS 333 Database Design and Programming (4)
- CS 337 Systems Analysis and Design (4)
- CS 343, 344 Operating Systems and Compilers I, II (4, 4)
- CS 353 Computer Graphics (4)
- CS 363, 364 Networks I, II (3, 3)
- CS 397 Introduction to Senior Project (1)
- CS 468 Software Development Project (4)
- CS 498 Senior Seminar (1) *
- MA 231 Discrete Mathematics (3)
- MA 251, 252 Calculus I, II (4, 4)
- MA 324 Probability and Statistics I (3)
- MA 332 Linear Algebra (3)

One course from:

- MA 325 Probability and Statistics II (3)
- MA 328 Modeling and Operations Research (3)
- MA 354 Differential Equations (4)
- MA 356 Numerical Analysis (3)
- MA 432 Modern Algebra (4)

* CS 498 must be taken at NNU.

MATHEMATICS

Objective: This program is for students who wish to prepare for graduate study in the mathematical sciences or for a career in applied mathematics in science or industry.

Administrator: Chair, Department of Mathematics and Computer Science

Requirements: 48-49 credits including 39-40 in mathematics of which 28 shall be numbered above 299.

- MA 231 Discrete Mathematics (3)
- MA 251, 252, 353 Calculus I, II, III (4, 4, 3)
- MA 324 Probability and Mathematical Statistics I (3)
- MA 331 Introduction to Abstract Mathematics (3)
- MA 332 Linear Algebra (3)
- MA 354 Differential Equations (4)
- MA 432 Modern Algebra (4)
- MA 451 Introduction to Real Analysis (4)

Choose one of the following options:

- MA 325 Probability and Statistics II (3);
and, MA 452 Introduction to Real Analysis (2); or,
- MA 433 Modern Algebra (2)
and, MA 452 Introduction to Real Analysis (2)
- CS 122 Introduction to Computer Science (4)
- PH 111 College Physics with Laboratory (5); or,
- PH 211 Physics for Science and Engineering with Laboratory (5)

Students who plan on graduate study are advised to acquire a reading knowledge of German or French.

BACHELOR OF ARTS:

COMPUTER SCIENCE

Objective: This program is for students who wish to pursue a liberal arts degree with some specialization in computer science, but do not intend to enter graduate school in Computer Science.

Administrator: Chair, Department of Mathematics and Computer Science

Requirements: 71 credits including 38 in computer science.

- CS 122 Introduction to Computer Science (4)
- CS 222 Computer Programming in C++ (4)

- CS 226 Event-Driven Programming (4)
- CS 263 Assembly Language Programming (3)
- CS 275 Data Structures (3)
- CS 333 Database Design and Programming (4)
- CS 337 Systems Analysis and Design (4)
- CS 363, 364 Networks I, II (3, 3)
- CS 397 Introduction to Senior Project (1)
- CS 468 Software Development Project (4)
- CS 498 Senior Seminar (1) *
- MA 151 Survey of Calculus (3)
- MA 224 Elementary Statistics (3)
- MA 231 Discrete Mathematics (3)

Twenty-four credits in a specific area of concentration approved by the Department Chair.

* CS 498 must be taken at NNU.

SECOND TEACHING FIELD: COMPUTER SCIENCE

Requirements: 21 credits.

- CS 122 Introduction to Computer Science (4)
- CS 206 Computer System Maintenance (3)
- CS 222 Computer Programming in C++ (4)
- CS 226 Event-Driven Programming (4)
- CS 275 Data Structures (3)
- MA 231 Discrete Mathematics (3)

MATHEMATICS

Objective: This program is for students who wish to pursue a liberal arts degree with some specialization in mathematics.

Administrator: Chair, Department of Mathematics and Computer Science

Requirements: 47-52 credits (34-37 in mathematics of which 23-26 shall be upper division. The following core classes are required. Either option A or option B must be followed to complete the major.

- CS 122 Introduction to Computer Science (4)
- MA 231 Discrete Mathematics (3)
- MA 251, 252, 353 Calculus I, II, III (4, 4, 3)
- MA 324 Probability and Statistics I (3)
- MA 331 Introduction to Abstract Mathematics (3)
- MA 332 Linear Algebra (3)

School of Health and Science

MA 354 Differential Equations (4); or,
MA 451 Introduction to Real Analysis (4)
MA 432 Modern Algebra (4)

Option A:

Requirements: 46 credits including 36 in mathematics of which 25 shall be numbered above 299.

MA 328 Modeling and Operations Research (3)
MA 356 Numerical Analysis (3); or,
MA 325 Probability and Statistics II (3)
CS 222 Programming in C++ (4)
CS 275 Data Structures (3)

or

Option B:

Requirements: 51 credits including 33 in mathematics of which 22 shall be numbered above 299.

MA 328 Modeling and Operations Research (3)
Nine credits of approved business/economics courses
PH 111 College Physics with Laboratory (5); or,
PH 211 Physics for Science and Engineering with Laboratory (5)

Students who plan to do graduate study are advised to acquire a reading knowledge of German or French.

MATHEMATICS-EDUCATION

Objective: To prepare students to teach mathematics in the secondary school.

Administrators: Chair, Department of Mathematics and Computer Science; Director, Teacher Education

TEACHING AREA

Requirements: For Secondary Certificate (6-12) with a Teaching Area – 92-93 credits including 46 in mathematics (including CS 122) of which 24 shall be numbered above 299.

MA 224 Elementary Statistics (3)
MA 231 Discrete Mathematics (3)
MA 251, 252 Calculus I, II (4, 4) *
MA 301 Teaching Mathematics in the Secondary School (2)
MA 310 History of Mathematics (1)

- MA 328 Modeling and Operations Research (3)
- MA 331 Introduction to Abstract Mathematics (3)
- MA 332 Linear Algebra (3)
- MA 341 Modern Geometry (3)
- MA 432 Modern Algebra (4)
- MA 451 Introduction to Real Analysis (4)
- Five mathematics elective credits (5)
- PH 111 College Physics with Laboratory (5); or,
PH 211 Physics for Science and Engineering with Laboratory (5)
- CS 122 Introduction to Computer Science (4)
- ED 110 Introduction to Teaching (1)
- ED 275 Technology in the Classroom (3)
- ED 296 Field Experience (1)
- ED 315 Education of Exceptional Children (3)
- ED 351 Teaching Strategies in the Secondary School (3)
- ED 361 Teaching Reading in Content Areas: Secondary (3)
- ED 457 Classroom Management (1)
- ED 485 Secondary School Start-Up (1)
- ED 486 Student Teaching in the Middle School/ Junior High School (12); or,
ED 487 Student Teaching in the Senior High School (12)
- ED 492 Foundations of Education (2)
- PY 155 Introduction to Psychology (3)
- PY 211 Educational Psychology (3)
- CO 121 Fundamentals of Speech (3)
- One multi-culture course selected from:**
 - EN 427 Minority Voices in American Literature (3)
 - SO 203 Cultural Anthropology I (2)
 - SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

* For a student with a superior high school background, MA 251 and/or MA 252 may be waived.

Note: Most students require more than 8 semesters to complete this program.

FIRST TEACHING FIELD

Administrators: Chair, Department of Mathematics and Computer Science; Director, Teacher Education

School of Health and Science

Requirements: For Secondary Certificate (6-12) with a First Teaching Field: 92-93 credits including 31 in mathematics (including CS 122) of which 16 shall be numbered above 299 and a minimum of 20 credits in a second teaching field.

MA 224 Elementary Statistics (3)

MA 251, 252 Calculus I, II (4, 4) *

MA 301 Teaching Mathematics in the Secondary School (2)

MA 310 History of Mathematics (1)

MA 328 Modeling and Operations Research (3); or,

MA 332 Linear Algebra (3)

MA 331 Introduction to Abstract Mathematics (3)

MA 341 Modern Geometry (3)

MA 432 Modern Algebra (4)

CS 122 Introduction to Computer Science (4)

ED 110 Introduction to Education (1)

ED 275 Technology in the Classroom (3)

ED 296 Field Experience (1)

ED 315 Education of Exceptional Children (3)

ED 351 Teaching Strategies in the Secondary School (3)

ED 361 Teaching Reading in Content Areas: Secondary (3)

ED 457 Classroom Management (1)

ED 485 Secondary School Start-Up (1)

ED 486 Student Teaching in the Middle School/ Junior High School (12); or,

ED 487 Student Teaching in the Senior High School (12)

ED 492 Foundations of Education (2)

PY 155 Introduction to Psychology (3)

PY 211 Educational Psychology (3)

CO 121 Fundamentals of Speech (3)

One multi-culture course selected from:

EN 427 Minority Voices in American Literature (3)

SO 203 Cultural Anthropology I (2)

SO 318 Race, Class and Ethnicity (3)

Computer Competency: All teacher applicants must have a basic understanding of computer technology including good word processing skills. Students who do not have this understanding and these skills should work with the Study Skills Center to develop them prior to application for admission to the teacher education program.

* For a student with a superior high school background, MA 251 and/or MA 252 may be waived.

Note: Most students require more than 8 semesters to complete this program.

SECOND TEACHING FIELD: MATHEMATICS

Requirements: 24-25 credits in mathematics

MA 101 Fundamental Mathematical Structures I (3)

MA 224 Elementary Statistics (3)

MA 251, 252 Calculus I, II (4, 4)

MA 341 Modern Geometry (3)

Five mathematics elective credits (5)

One course selected from:

MA 102 Fundamental Mathematical Structures II (3)

MA 301 Teaching Mathematics in the Secondary School (2)

MA 328 Modeling and Operations Research (3)

MA 331 Introduction to Abstract Mathematics (3)

MINORS

COMPUTER SCIENCE

Objective: This program will give a student a background in the field computer science.

Administrator: Chair, Department of Mathematics and Computer Science

Requirements: 26-27 credits, including 11-12 upper-division credits. Every student must complete the following:

CS 122 Introduction to Computer Science (4)

CS 222 Computer Programming in C++ (4)

CS 226 Event-Driven Programming (4)

CS 275 Data Structures (3)

CS 333 Database Design and Programming (4)

CS 337 Systems Analysis and Design (4)

One additional CS-prefixed courses numbered 300 or above (3-4)

MATHEMATICS

Objective: This program will give a student a background in the field of mathematics with one of two options.

Administrator: Chair, Department of Mathematics and Computer Science

School of Health and Science

Requirements: 20-21 credits, including 12 upper division credits. Every student must complete the following three courses along with one of the two options.

MA 251 Calculus I (4)

MA 252 Calculus II (4)

MA 332 Linear Algebra (3)

Option 1:

MA 331 Introduction to Abstract Mathematics (3)

MA 432 Modern Algebra (4); or,

MA 451 Introduction to Real Analysis (4)

MA 324 Probability and Statistics I (3); or,

MA 356 Numerical Analysis (3)

or

Option 2:

Three of the following courses:

MA 328 Modeling and Operations Research (3)

MA 353 Calculus III (3)

MA 354 Differential Equations (4)

MA 356 Numerical Analysis (3)

DEPARTMENT OF NURSING

Faculty: Judith Stocks (Department Chair), Chris Kapicka, Barbara Lester, Sharon Stephen, Judy Taylor, Ginger Wolgemuth

MAJOR

BACHELOR OF SCIENCE:

NURSING

PROGRAM GOALS

The Department of Nursing encourages intellectual development, spiritual growth and professional leadership through service.

The Department of Nursing seeks to prepare graduates for professional nursing practice by:

1. Providing a four-year course of study that leads to a Bachelor of Science.
2. Preparing graduates to take the NCLEX-RN examination to become a Registered Nurse.
3. Preparing graduates for the pursuit of graduate education.

Administrator: Chair, Department of Nursing

ADMISSION TO MAJOR

A strong liberal arts foundation is required before entry into the nursing major. The purpose of broad course work is to prepare students for professional studies and to prepare graduates for working with diverse populations in varied geographical areas. Monitoring of students enrolled in pre-nursing courses is continuous and retention efforts are utilized to assist pre-nursing students in the successful completion of prerequisite courses.

Formal application for admission to the Department of Nursing must be completed during Fall Semester of the sophomore year. Due dates and admission criteria required for application will be advertised early in the school year. A personal interview and a nursing entrance examination are required for application to the nursing major.

Standards for Admission to the Nursing Major

1. Scholarship
2. Integrity of character and professional aptitude
3. Satisfactory pre-nursing test performance
4. Competencies in written and spoken English
5. Competency in mathematics
6. Competency in basic computer skill
7. Good health and physical functioning

Prerequisites for Admission into Nursing Major

Completion of/or enrollment in the following courses (or equivalents) is prerequisite to application to the major:

- BI 201, 203, Human Anatomy and Physiology I, II (4,4)
- BI 342 Microbiology (4)
- CM 121 Principles of General, Organic and Biochemistry (5)
- EN 102 English Composition (3)
- EN 202 Research Writing and Critical Thinking (3)
- PY 155 Introduction to Psychology (3)
- PY 210 Lifespan Development (3)
- KI 273 Human Nutrition (3)
- MA 224 Elementary Statistics (3)

School of Health and Science

SO 155 Introduction to Sociology (3)

NU 101 Introduction to Professional Nursing (1)

NU 202 Conceptual Foundations of Professional Nursing (3)

GRADUATION REQUIREMENTS: 132-133 credits including:

Prerequisites courses

Professional nursing courses (57 credits)

General education and additional required courses

Professional Nursing Courses

NU 203 Health and Health Promotion (1)

NU 211 Health Assessment Across the Lifespan (4)

NU 222 Fundamentals of Professional Nursing (4)

NU 304 Pharmacology (3)

NU 333 Mental Health Nursing (4)

NU 344 Nursing of Adults with Acute and Chronic Health Alterations (6)

NU 351 Nursing of Women and Childbearing Families (4)

NU 362 Nursing of Children and Childrearing Families (4)

NU 406 Leadership and Management in Professional Nursing (3)

NU 407 Issues and Trends in Professional Nursing (2)

NU 408 Foundations of Nursing Research (3)

NU 473 Nursing of Adults with Complex Health Alterations (6)

NU 484 Community Health Nursing (5)

NU 496 Transition to Professional Nursing Practice (4)

NU 499 Independent Study in Nursing (1-5)

General Education and Additional Required Courses

Philosophy Elective (3)

Literature Elective (3)

Humanities Elective (3)

History Elective (6) (U.S. and non U.S.)

Art/Music History Elective (3)

BL 111 Introduction to Biblical Studies (4)

TH 211 Introduction to Christian Theology (4)

Upper Division Bible Elective (2)

CO 121 Fundamentals of Speech (3)

KI 100 Fundamentals of Wellness (1)

KI 102 Heart Healthy Activity (1)

KI 103 Lifetime Sport Activities (1)

BI 382 Pathophysiology (3)

DEPARTMENT OF PHYSICS

Faculty: Dan Lawrence (Department Chair), William Packard

MAJORS

BACHELOR OF SCIENCE:

ENGINEERING PHYSICS

Objective: To prepare students for careers in industry and government, or for graduate school in engineering.

Administrator: Chair, Department of Physics

Requirements: 82-84 credits including 48 in engineering and physics of which 30 shall be numbered above 299.

- CS 122 Introduction to Computer Science (4)
- EG 105 Engineering Graphics (2)
- EG 202 Introduction to Physics and Engineering (3)
- EG 344 Engineering Statics (3)
- EG 361 AC and DC Circuit Theory with Laboratory (4)
- EG 362 Analog Electronics with Laboratory (4)
- EG 363 Digital Electronics with Laboratory (4)
- MA 251, 252 Calculus I, II (4 each)
- MA 324 Probability and Statistics I (3)
- MA 353 Calculus III (3)
- MA 354 Differential Equations (4)
- MA 356 Numerical Analysis (3)
- PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)
- PH 231, 232 Instrumentation in Experimental Physics (1 each)
- PH 313 Modern Physics (3)
- PH 341 Analytic Mechanics (4)
- PH 351 Thermodynamics and Statistical Mechanics (4)
- PH 461 Electricity and Magnetism (4)
- PH 497 Junior-Senior Project (1)*
- PH 498 Senior Seminar (1) **
- PL 351 Philosophy of Science (2)

Select two courses from the following:

- CS 222 Computer Programming in C++ (4)
- CS 263 Assembly Language Programming (3)

School of Health and Science

MA 231 Discrete Mathematics (3)
MA 325 Probability and Statistics II (3)
MA 332 Linear Algebra (3)
MA 328 Modeling and Operations Research (3)
PH 471 Optics (4)
PH 472 Solid State Physics (4)

Four (4) credits of PH 394 Topics in Physics may be substituted for one course.

Neither of the following courses is required; however, they are highly recommended for engineering students and at least one of them will count as a general education requirement in Social Science.

EC 241 Microeconomic Analysis (3)
EC 242 Macroeconomic Analysis (3)

For students pursuing a career in the microelectronics industry EG 344 & EG 345 may be replaced by CM 221 & CM 222.

*A minimum of three credits are required, but a maximum of four credits in PH 497 will be allowed toward the major.

** PH 498 must be taken at NNU.

PHYSICS

Objective: To prepare students for graduate school or industry.

Administrator: Chair, Department of Physics

Requirements: 81-83 credits including 40 in physics of which 25 shall be numbered above 299.

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)
MA 251, 252 Calculus I, II (4 each)
MA 324 Probability and Statistics I (3)
MA 353 Calculus III (3)
MA 354 Differential Equations (4)
MA 356 Numerical Analysis (3)
PH 202 Introduction to Physics and Engineering (3)
PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)
PH 231, 232 Instrumentation in Experimental Physics (1 each)
PH 313 Modern Physics (3)
PH 341 Analytic Mechanics (4)
PH 351 Thermodynamics and Statistical Mechanics (4)

- PH 461 Electricity and Magnetism (4)
- PH 472 Solid State Physics (4)
- PH 481 Fundamentals of Quantum Mechanics (4)
- PH 497 Junior-Senior Project (1) *
- PH 498 Senior Seminar (1)**
- PL 351 Philosophy of Science (2)

Two courses selected from the following:

- CS 122 Introduction to Computer Science (4)
- CS 222 Computer Programming in C++ (4)
- EG 363 Digital Electronics with Laboratory (4)
- MA 231 Discrete Mathematics (3)
- MA 325 Probability and Statistics II (3)
- MA 328 Modeling and Operations Research (3)
- MA 332 Linear Algebra (3)

Four (4) credits of PH 394 Topics in Physics may be substituted for one class.

*A minimum of three credits in PH 497 are required, but a maximum of four credits will be allowed toward the major.

** PH 498 must be taken at NNU.

BACHELOR OF ARTS:

PHYSICS

Objective: To prepare students to enter fields such as engineering, medicine or law and for students planning to enter a profession closely related to physics such as health physics, biophysics, chemical physics or business technology.

Administrator: Chair, Department of Physics

Requirements: 75 credits including 35 in physics of which 18 shall be numbered above 299.

- PH 202 Introduction to Physics and Engineering (3)
- PH 211, 212 Physics for Science and Engineering with Laboratory (5 each)
- PH 231, 232 Instrumentation in Experimental Physics (1 each)
- PH 313 Modern Physics (3)
- PH 461 Electricity and Magnetism (4)
- PH 497 Junior-Senior Project (1)*
- PH 498 Senior Seminar (1) **
- Eight elective upper division credits in physics (8)

School of Health and Science

CM 221, 222 General, Inorganic, and Physical Chemistry (5 each)

MA 251, 252 Calculus I, II (4 each)

MA 353 Calculus III (3)

MA 354 Differential Equations (4)

Fifteen (15) credits in another discipline of which 6-8 shall be numbered above 299. **

*A minimum of three (3) credits in PH 497 are required, but a maximum of four (4) credits in PH 497 will be allowed toward the major.

** PH 498 must be taken at NNU.

*** (Normally these courses will fulfill the requirements of a pre-professional school or will complement physics in areas such as chemical physics, biophysics, health physics or business. For students desiring to fulfill this requirement in mathematics the 15 credits must be in addition to those listed within the major.)

PHYSICS-EDUCATION

SECOND TEACHING FIELD: PHYSICS

Requirements: 35 credits including 20 in physics

PH 313 Modern Physics (3)

PH 351 Thermodynamics and Statistical Mechanics (4)

Thirteen elective credits of physics (13)

MA 251, 252 Calculus I, II (4 each)

MA 353 Calculus III (3)

MA 354 Differential Equations (4)



COURSE DESCRIPTIONS

ACCOUNTING (AC)

AC 106. Financial Accounting (3)

An introduction to financial accounting in the business world. The emphasis is on the mechanics, basic terminology, and theoretical framework of double-entry bookkeeping, and how financial statements are prepared for external reporting. Included are topics related to the accounting model, special journals, general ledgers, and basic computer spreadsheet applications. Offered yearly.

AC 107. Managerial Accounting (3)

An introduction to managerial accounting in the business world. The emphasis is on decision-making models in factory and service organization settings. Topics include cost flows in a factory environment, cost-behavior patterns, break-even analysis, lease or buy, make or buy, business contraction, and expansion of product lines. Considers the time value of money, with computer applications throughout. Covers financial statements for internal use, and the statement of cash flows. **Prerequisite:** AC 106. Offered yearly.

AC 301. Income Taxation (3)

Theory and application of the Federal Internal Revenue Code, regulations, revenue rulings, revenue procedures, and cases to individuals and sole proprietorships. Property transactions are covered together with the topics of gross income, deductions from gross income and losses, itemized deductions, losses and bad debts, employee expenses and deferred compensation, depreciation, cost recovery (ACRS and MACRS), depletion, amortization and inventory costs, non-taxable exchanges, section 1231 gains and losses, tax credits, and special tax computation methods. **Prerequisite:** AC 107. Offered alternate years.

AC 304. Cost Accounting (3)

An in-depth study of cost accounting with a managerial emphasis. Topics include a review of AC 107. (Managerial Accounting) and job-order costing systems, process-costing systems, standard costs, cost behavior, direct (variable) costing, joint-product costing systems, cost of by-products, cost allocation methods, and accounting for waste and spoilage. **Prerequisite:** AC 107. Offered alternate years.

AC 351. Intermediate Accounting I (3)

A detailed study of the conceptual (theoretical) framework of external financial reporting and the financial statements utilized in external reporting (except the statement of cash flows). An in-depth study of certain current and non-current assets and liabilities. Topics include: basic theory, the income statement and statement of changes in retained earnings, the balance sheet, time value of money, cash and accounts

receivable, inventories, fixed assets and depreciation, intangible assets, and current liabilities. **Prerequisite:** AC 107. Offered yearly.

AC 352. Intermediate Accounting II (3)

A continuation of the study of certain current and long-term assets and liabilities begun in AC 351. Topics include: long-term liabilities, stockholders' equity, dilutive securities and earnings per share calculations, temporary and long-term investments, and computer spreadsheet applications. Accounting for pensions and post-retirement benefits, leases, statement of cash flows, and full disclosure. **Prerequisite:** AC 351. Offered yearly.

AC 396. Internship in Accounting (3)

On-the-job experience involving decision-making and problem-solving techniques, skills, and knowledge acquired in the classroom. This experience is under the supervision of both a businessperson and professor. **Prerequisite:** Permission of the Director, Undergraduate Business Program. Offered yearly.

AC 402. Auditing (3)

A study of professional ethics, accountants' legal liability, internal control, evidence, reporting, and an introduction to statistical sampling and EDP auditing. Topics include general, field work and reporting standards, as well as selected statements on auditing standards. An audit case is required. **Prerequisite:** AC 352. Offered alternate years.

AC 451. Advanced Financial Accounting (3)

An in-depth study of business combinations and consolidated financial statements from a financial reporting perspective. Topics include: theory of business combinations (APBs 16, 17 and 18); accounting for business combinations under the pooling or purchase method, whether a statutory merger, statutory consolidation, acquisition of assets, or acquisition of stock, consolidated financial statements at date of acquisition or subsequent to date of acquisition, and special inter-company transaction eliminations in consolidations. **Prerequisites:** AC 352, senior standing. Offered alternate years.

STEP PROGRAM

AC 206. Financial Accounting (3)

The course studies financial accounting in the business world. Emphasis is placed on the mechanics, basic terminology and theoretical framework of double-entry bookkeeping. Included are topics relating to the preparation and updating of statements for external reporting. Accounting models are used as they relate to special journals, general ledgers, and basic computer spreadsheet applications. **Prerequisite:** Admission to the STEP Program.

Course Descriptions

AC 207. Managerial Accounting (3)

The course studies managerial accounting in the business world. Emphasis is placed on decision-making models in production and service organizations. Included are topics relating to revenue and expense centers, break-even analysis, business contraction, and product expansion. Time value of money is applied throughout the course with computer application. Preparation and updating of financial statements for internal use and statement of cash flows are covered. **Prerequisite:** Admission to the STEP Program.

ART (AR)

AR 101. A Survey of Art and Music (3)

An introduction to the stylistic characteristics and cultural climate of the important artistic epochs in history, and includes both the western and the Northwestern or ethnic traditions. (See MU 101.)

AR 102. Design (3)

An introductory course designed to promote an understanding of and an appreciation for the various technical and aesthetic qualities fundamental to the visual arts. This course emphasizes creative problem solving through manipulation of various media/techniques as well as class critiques. Materials fee required.

AR 104. Drawing 1 (3)

Experiences in fundamentals of drawing and composition using a variety of media in the study of line, texture, value, and form. Media: pen, ink, pencil, charcoal.

AR 119. Introduction to the Visual Arts (3)

This introductory course is designed specifically for the non-art major. Its purpose is to provide insight and understanding of art's unique technical and aesthetic contributions within the overall cultural framework without taxing the brain of the student. Materials fee required.

AR 135. Graphic Design 1 (3)

An introduction to the world of graphic design with emphasis in graphic problem solving, basic understanding of typography and the elements of design.

AR 176. Fundamentals of Photography (3)

A basic course in black and white photography dealing with camera techniques and darkroom procedures. Students should have access to an adjustable 35mm camera. Fee for materials used.

AR 200. Drawing 2 (3)

Experiences in fundamentals of drawing and composition. An experimental course using a variety of media in the study of line, and form. Media: pen, ink, pencil, charcoal, felt markers, and finger paint. Continued experience in graphite and charcoal with emphasis in rendering the human figure at rest and in motion. **Prerequisite:** AR 104.

AR 201. Sculpture 1 /Three Dimensional Design (3)

An introductory studio experience, this course emphasizes tool usage and safety, material exploration, and an examination of the relationship between various aesthetic qualities and three-dimensional forms. Materials fee required.

AR 205. Ceramics 1 (3)

A studio-based course designed to introduce students to the various basic forming, decorating, glazing, and firing techniques used in the medium of clay. Materials fee required.

AR 206. Printmaking 1 (3)

A studio-based course in relief, serigraphic, and planographic processes with media including block printing, silk screening, lithography and collagraph. **Prerequisites:** AR 102, AR 204. Offered alternate years.

AR 212. Water-based Media Painting 1 (3)

A studio-based course in which students will learn various methods of working with water-based media. Emphasis will be placed on pictorial design, technologies, and color harmony. Offered alternate years.

AR 228. Illustration 1 (3)

An introductory course to the art and business of illustration with an emphasis in developing conceptual skills, personal visual voice and stylistic approach. Offered alternate years. **Prerequisite:** AR 104.

AR 236 Graphic Design 2: Typography (3)

An introductory course in designing with type which emphasizes graphic communication, the history and elements of typography, hand lettering and digital type. **Prerequisite:** AR 135.

AR 241. Painting 1 (3)

An introductory course in the use of oil or acrylic paints. Studies may include still life, landscape and portrait painting as well as emphasis on color and composition. **Prerequisites:** AR 102, AR 204; or, instructor's permission.

Course Descriptions

AR 242/442. Opera/Musical Theater Production (1)

Hands-on involvement in the performing of a Broadway musical, including acting, singing, choreography, stage lighting and set construction. May be repeated for credit.

Prerequisite: Audition or instructor's permission. (See MU 242/442.)

AR 294. Special Topics (1-4)

A concentrated study of one topic in art. May be repeated for credit. **Prerequisite:** Instructor's permission.

AR 301. Sculpture 2 (3)

Intermediate studio experience with emphasis upon development and refinement of practical and theoretical concerns related to three-dimensional artwork. Projects in this course will include various additive, reductive, and constructive procedures, as well as historical and contemporary sculptural issues. Materials fee required.

AR 305. Ceramics 2 (3)

Further exploration, development, and refinement of individual projects in the medium of clay. This course is designed to explore both traditional vessel and sculptural ceramic forms. Contemporary issues as well as the use of other media along with clay are explored. Materials fee required.

AR 306. Printmaking 2 (3)

A continuation of printmaking experiences in Intaglio processes. Main emphases are in the areas of monotypes, monoprints and processes. **Prerequisites:** AR 102 and 204. Offered alternate years.

AR 309. Renaissance Art History (3)

A study of visual art forms of the Renaissance period through the Age of Enlightenment including Neo-classicism. Offered alternate years.

AR 312. Water-based Media Painting 2 (3)

A continuation of the development of techniques using various water-based media. An emphasis on personal style and experimentation with collage elements will be the key to this class. **Prerequisite:** AR 212. Offered alternate years.

AR 319. Modern Art History (3)

A survey of visual art forms from the Impressionistic Period to the present. Attention given to modern art trends in the United States. Slides, lectures, films and gallery trips included. Offered alternate years.

AR 328. Illustration 2 (3)

A continuation of illustration approaches and techniques with emphasis in visual journalism, visual narrative, and portfolio development. **Prerequisites:** AR 104, 228; or, instructor's permission. Offered alternate years.

AR 329. American Art History (3)

A survey of visual art forms in the United States from the 17th through the 20th centuries. Slides, films and gallery trips included. Offered alternate years.

AR 333. Teaching Art in the Elementary School (3)

This course introduces elementary education majors to theoretical and practical experiences necessary for incorporating a discipline-based art education program into the elementary school curriculum. This course may include actual practicum teaching experiences. (See ED 333.)

AR 334. History of Design (3)

A design course focusing in depth on the stylistic history of graphic design, from Gutenberg to the Present. Weekly studio assignments will be given with specific historical and stylistic goals. The purpose of this course is to create a strong awareness of historical styles and to develop artwork applicable to a working portfolio.

Prerequisites: AR 135, 236, 243.

AR 336. Graphic Design 3: Product Identity

a design course with emphasis in creating a product identity from concept to completion. This course will discuss but not be limited to, conceptual design, logo/logotype development, packaging design, advertising design and the development of promotional materials. **Prerequisites:** AR 135, 236, 243.

AR 339. Ancient Art History (3)

A study of the origins and development of art from ancient times through the 14th century. Slides, lectures, and discussions include comparisons with modern works. Offered alternate years.

AR 341. Painting 2 (3)

A continuation of painting experiences in oil or acrylic. Emphasis is on figure painting with experience in constructing various painting supports. **Prerequisite:** AR 241.

AR 344. Digital Design 3: WWW-Worldwide Web (3)

A design course exploring the use of digital media on the World Wide Web. Students will learn how to construct dynamic commercial web sites using current design software and employing the latest standards in interactive web media and scripting tools.

Prerequisites: AR 135, 236, 243, 343.

Course Descriptions

AR 243. Digital Design I/Digital Imaging

A design course emphasizing industry standard drawing, painting, and photo editing computer applications. Students create logos, letterhead, product labels, digital illustrations, book covers, newsletters and advertisements. **Prerequisites:** AR 135, 201; or instructor's permission.

AR 349. Asian Art History (3)

A survey of the traditions of India, China and Japan from their pre-historic origins to contemporary developments. Offered occasionally.

AR 353. Teaching Art in Secondary Schools (3)

The emphasis of this course is to examine pragmatic techniques and philosophical approaches necessary to design, implement, and evaluate a comprehensive discipline-based art education program at the secondary school level. Additionally, both historical and contemporary art education issues are examined, discussed, and evaluated.

Prerequisite: Junior classification. **Co-requisite:** ED 351. (See ED 353.)

AR 487 Presentation & Portfolio (3)

A course designed to help students formulate an individual viewpoint within the context of the contemporary art world through the study of the gallery system and art presentation. Includes portfolio preparation, statement formulation and presentation techniques. **Prerequisite:** Junior classification; or, instructor's permission.

AR 401. Sculpture 3 (3)

Intensive, in-depth study opportunities for those individuals seeking development and articulation of personal conceptual and technical skills in the area of sculpture. A discourse of historical and contemporary sculptural issues will continue.

AR 405. Ceramics 3 (3)

Intensive, in-depth study opportunities for those individuals seeking development and articulation of personal conceptual and technical skills in the area of ceramics. A discourse of historical and contemporary ceramic issues will continue. Materials fee required.

AR 411, 412. Project Studies (3 each)

These courses are designed to provide the art major with self-directed study project opportunities in one of the following selected areas: painting, drawing, printmaking, sculpture, ceramics, illustration, or graphic design. Emphasis will be upon refining individual direction, advanced application of materials and techniques, and practical and theoretical concerns related to the selected discipline. These courses must be approved and directly supervised by the instructor responsible for the selected area of exploration. A grade of C or better is required in these courses of study. **Prerequisite:** Instructor's permission.

AR 436. Graphic Design 4 (3)

Advanced design course emphasizing further development of a working portfolio. Projects may include book covers, CD jackets, advertisements, posters, editorial design, logotypes, and corporate identity campaigns. **Prerequisites:** AR 135, 236, 334, 336, 243, and 343.

AR 441. Painting 3 (3)

Intensive study of the law of the human figure utilizing multiple and varied painting media. Articulation of personal style and process will be investigated.

AR 444. Digital Design 4/Multimedia (3)

A design course with a focus on new digital animation, video and presentation software applications. Students will learn to construct interactive content on current media discs or drives with the primary goal of producing an interactive portfolio and design package. **Prerequisites:** AR 135, 236, 243, and 343.

AR 343. Digital Design 2/DTP Desktop Publishing

A continuation of AR 348, this course focuses on editorial design. Students learn page layout construction and design, digital pre-press and magazine design. **Prerequisites:** AR 135, 243, and 236.

AR 494. Special Topics (1-4)

A concentrated study of one topic in art. May be repeated for credit. **Prerequisite:** Instructor's permission.

AR 496. Graphic Design Internship (3)

Course designed to give students hands-on working experience in the world of graphic design. Course is normally taken in the junior or senior year. **Prerequisite:** Junior classification.

BIBLICAL LITERATURE (BL)

BL 111. Introduction to Biblical Studies (4)

An introduction to the serious study of the Bible in its historical, cultural, and literary context. The course emphasizes the essential content, structure, and theological message of the books of the Bible. Students are introduced to the practice of biblical exegesis and to the geography and archaeology of the lands of the Bible. This course is designed for general students. **Pre/Co-requisite:** EN 102.

BL 311. Old Testament Interpretation (3)

A study of the history, methods, and principles of Old Testament interpretation designed for majors in the Departments of Philosophy and Religion and other

Course Descriptions

interested students. Part of the course will focus on practical application to selected Old Testament passages. **Prerequisites:** BL 111, HB 101.

BL 312. New Testament Interpretation (4)

A study of the history, methods, and principles of New Testament interpretation designed for majors in the Departments of Philosophy and Religion and other interested students. Part of the course will focus on practical application to selected New Testament passages. **Prerequisites:** BL 111, GK 101.

BL 322. Psalms (2)

An exegetical study of the book of Psalms. The course will include a discussion of the structure, formation and theology of the Psalms. Representative samples of each major type of Psalm will be studied. **Prerequisites:** BL 111, TH 211.

BL 323. Wisdom Literature (2)

An exegetical study of the books of Job, Proverbs, Ecclesiastes, and the Song of Solomon. **Prerequisites:** BL 111, TH 211.

BL 326. Life and Teachings of Jesus (2)

A study of the life and ministry of Jesus in the Synoptic Gospels with special attention given to backgrounds, chronology, exegesis of teachings, and theological interpretation. **Prerequisites:** BL 111, TH 211.

BL 327. Johannine Writings (2)

An expositional study of the Gospel according to John, in English translation, read against the background of the Johannine Letters. Biblical exegesis, exposition, and theology will be included. Intended for the general student. **Prerequisites:** BL 111, TH 211.

BL 333. Pauline Epistles (2)

An in-depth study of selected letters of Paul with the historical background provided by Acts. The course will emphasize the occasion, purpose, and theological message of one or two different letters on a rotating basis. May be repeated for credit. **Prerequisites:** BL 111, TH 211.

BL 341. Biblical Hebrew Grammar and Readings (5)

A study of the basic elements of Biblical Hebrew. Grammar, vocabulary, and syntax will be emphasized. Course will include selected readings in Biblical Hebrew prose. Prior foreign language experience recommended. **Prerequisite:** HB 101; or, instructor's permission. (See HB 301.)

BL 352. New Testament Greek Exegesis (2)

An advanced study of the Greek New Testament. The course will focus on advanced grammar, application of exegetical principles and methods, and utilization of the major scholarly resources for Greek exegesis, applied to selected New Testament books. May be repeated for credit. **Prerequisite:** GK 201. (See GK 352.)

BL 394. Topics in Biblical Literature (1-4)

An examination of some phase of Old or New Testament studies not covered in other courses. May be repeated for credit. **Prerequisites:** BL 111, TH 211.

BL 425. Parables of Jesus (2)

An exegetical study of the parables of Jesus in the Synoptic Gospels, with some attention to their interpretation in the past and present. The course considers the meaning and significance of the parables in the contexts of the life and ministry of Jesus, the Gospels, and of contemporary Christians. **Prerequisites:** BL 111, TH 211. Offered alternate years.

BL 440. Ancient Near Eastern History and Culture (2)

An in-depth study of the history, culture, art, and religion of the ancient Near East. Attention will focus on the major civilizations of the period 7000-300 B. C. Israel's interrelations with these civilizations will be touched on briefly. Major archaeological contributions will be discussed. **Prerequisites:** BL 111, TH 211. Offered alternate years.

BL 441. History of Ancient Israel (2)

An in-depth study of the history and archaeology of the Hebrew people beginning with formative principles in the Patriarchal period and ending with the Reconstruction period of Ezra. Israel's interrelations with other ancient Near Eastern nations will also be discussed. **Prerequisites:** BL 111, TH 211. Offered alternate years.

BL 442. Hebrew Prophets (2)

An exegetical study of the prophets of the Old Testament. The course will include an overview of the history of the prophetic movement and the primary message of each writing prophet. One or two books will be studied in-depth as a foundation for sermon building. **Prerequisite:** BL 311. Offered alternate years.

BL 498. Noncanonical Writings and New Testament Interpretation (2)

A reading seminar utilizing primary, noncanonical, religious, theological, and historical writings of the Hellenistic age. A survey of representative Jewish, Christian, and pagan cognate literatures relevant for the interpretation of the New Testament. **Prerequisite:** BL 312. Offered alternate years.

STEP PROGRAM

BL 112. Survey of the Bible (3)

An introductory survey of the Old and New Testaments. This course will focus on the literature of the Bible and the history of the biblical period. **Prerequisite:** Admission to the Step Program.

BL 313. Studies in Biblical Literature (3)

An in-depth study of selected biblical books or genres. The specific focus of the class will be determined by the instructor and announced as the course subtitle. **Prerequisite:** Admission to the Step Program.

BIOLOGY (BI)

BI 101. Introduction to Biology (4)

A survey of biological principles for the general student with emphasis on man's place in the environment. This course does not apply toward major requirements for biology.

BI 102. Introduction to Biology Laboratory (1)

A study of selected topics in a laboratory setting which is intended to be taught in connection with BI 101.

This course does not apply toward major requirements for biology.

BI 106. Human Biology (4)

Selected topics related to the human body with particular emphasis on the integration of form and function as well as genetics and ethics.

BI 107. Human Biology Laboratory (1)

A laboratory study, using selected topics relating to the human body, which is intended to be taught in connection with BI 106. **Co-requisite:** BI 106.

BI 196. Clinical Observation (1)

Designed to provide an observation experience in Physical therapy or athletic training settings. May be repeated. **Prerequisite:** Instructor's permission. (See KI 196.)

BI 201. Human Anatomy and Physiology I (4)

A study of the structure and function of the human body using a systems approach. The following topics will be covered: cell biology, histology, integumentary system, skeletal system, muscular system, nervous system and sensory organs. In the laboratory, the organ systems will be explored using dissection, human cadaver and experiments employing the physiograph and other scientific instruments. Lecture and laboratory.

BI 203. Human Anatomy and Physiology II (4)

A study of the structure and function of human body using a systems approach. The following topics will be covered: endocrine systems, circulatory system, body fluids, respiratory system, digestive system and metabolism, urinary system and reproductive system. In the laboratory, the organ systems will be explored using dissection, human cadaver and experiments employing the physiograph and other scientific instruments. Lecture and laboratory.

BI 221, 222. General Biology (5 each)

(221- Zoology, 222- Genetics, Botany, Ecology) A survey of the basic concepts of biology with emphasis on life's diversity, cellular processes, genetic principles and man's place in nature. These courses are designed for the students who intend to major in the sciences and those in pre-medicine and related fields. Includes both lecture and laboratory components.

BI 294. Special Topics in Biology (1-5)

A variety of timely topics may be explored as the demand of students or the interest of the faculty involved dictates. Instructor's permission.

BI 304. Pharmacology (3)

An examination of the mechanism of action, pharmacokinetics and potential toxicology of clinically useful drugs. Roles and responsibilities in pharmacotherapeutics will be explored. **Prerequisites:** CM 221, 222. (See NU 304.)

BI 312. Ornithology (4)

A survey of the structure, function, and systematics of birds with considerable emphasis on identification of Idaho birds. Includes both lecture and laboratory. Usually taught on alternate years.

BI 314. Mammalogy (4)

A study of the classification, structure, and behavior of mammals in both a lecture and a laboratory setting with an emphasis on field work. Usually taught on alternate years. Lecture and laboratory. **Recommended as background:** BI 336.

BI 316. Plant Taxonomy (3)

A study of the principles of plant classification in both a lecture and a laboratory setting with emphasis on collection and identification of vascular plants. Usually taught on alternate years. Lecture and laboratory. **Recommended as background:** BI 222.

BI 317. Plant Taxonomy Laboratory (1)

A laboratory oriented to the identification and field study of native and introduced plants, which is intended to supplement BI 316. Taught alternate years immediately after close of Spring Semester. **Prerequisite:** BI 316

Course Descriptions

BI 322. Field Biology (4)

A study of the flora and fauna in the field with emphasis on the identification and ecology of species. Lecture and laboratory.

BI 324. Plant and Animal Ecology (5)

A study of the plants, plant communities and animals in relationship to their environment. Usually taught alternate years. Lecture and laboratory. **Recommended as background:** BI 221, 222.

BI 336. Vertebrate Comparative Anatomy (5)

A comparative study of all classes of vertebrates, including organ and organ systems levels of comparison utilizing both lecture and laboratory settings. Lecture and laboratory. **Recommended background:** BI 221.

BI 342. Microbiology (4)

A survey of the biology of the various microorganisms, with special emphasis on the bacteria, utilizing both lecture and laboratory settings. Lecture and laboratory. **Recommended as background:** BI 221, 222.

BI 346. Cell Biology (4)

A study of processes common to life at the cellular level. This course deals primarily with the structure and function of eukaryotic cells and their organelles. Lecture and laboratory. **Prerequisites:** BI 221, 222.

BI 348. Pathogenic Microbiology (4)

A study of important diseases caused by microorganisms. Major emphasis is on clinically important bacteria and viruses, with some consideration of fungal and parasitic pathogens. A basic coverage of the immune response to these pathogens will be included in this course. Lecture and laboratory. **Prerequisite:** BI 342; or, instructor's permission. Offered alternate years.

BI 350. Bioethics (2)

A survey of biotechnological advances and a review of ethical theories. A series of guest lecturers explore various facets of biotechnology and ecology as viewed from each particular discipline. These include issues viewed from research science, ecology, genetics, reproduction technologies, ethics, sociology and politics. **Prerequisites:** BI 101 or equivalent.

BI 351. Studies in Histology (1)

A supervised practical survey of normal animal cells and tissues. This is a microscopic laboratory study of all the organ systems. **Prerequisites:** BI 221, 222. Offered alternate years.

BI 352. Developmental Biology (4)

An in-depth study of the processes of vertebrate development and reproduction. Gametogenesis, fertilization, cleavage, gastrulation, organogenesis and histological differentiation are discussed. Lecture and laboratory. **Prerequisites:** BI 221, 222. Offered alternate years.

BI 354 Immunology (4)

A study of the basic anatomy and physiology of the immune system, including non-specific and specific immunity as well as immunopathology, cancer, allergies, tissue transplants, molecular recognition, and the development of the immune system. Lecture and laboratory. **Prerequisites:** BI 221, 222 and CM 221, 222. Offered alternate years.

BI 356. Endocrinology (3)

An introduction to the biology of the endocrine glands and the hormones they secrete. **Prerequisites:** BI 221, 222; CM 221, 222. Offered alternate years.

BI 360. Clinical Ethics (2)

This course will review the traditional theories of and the contemporary ethical applications to health care. The focus is the integration of ethical responsibility and the medical environment. Theorists and practitioners will contribute insight about methodology and motives that determine the decisions that are made in the dynamic of modern medical care. **Prerequisites:** BI 101; or, equivalent and PL 201 or 202. (See PL 360.)

BI 362. Vertebrate Physiology (5)

An in-depth survey of the basic functional principles of vertebrate organs and systems, with emphasis placed on humans. Lecture and laboratory. **Prerequisites:** BI 221, 222.

BI 372. Genetics (5)

A study of traditional Mendelian and molecular genetics. Topics will include Mendelian patterns of inheritance, transmission genetics, chromosome structure and function, mutation, population genetics, the structure, function and control of genes and recombinant DNA. Laboratory will include directed and independent projects illustrating genetic principles, recombination in bacteria and modern molecular genetic techniques. Lecture and laboratory. **Prerequisites:** BI 221, 222.

BI 382. Pathophysiology (3)

An in-depth exploration of the mechanisms and manifestations of selected human disease states resulting in alterations of the body's dynamic equilibrium. **Prerequisites:** BI 201, 203; or, BI 221, BI 222.

Course Descriptions

BI 385. Biological Foundations of Behavior with Laboratory (4)

A comprehensive study of the neural processes underlying brain function and behavior. A major emphasis is placed on an understanding of basic brain organization and function, and the neural substrates of emotion, motivation and learning. Lecture and laboratory. **Recommended as background:** BI 201, 203; or, BI 221. (See PY 385.)

BI 392. Cadaver Dissection (1-2)

A dissection of human cadaver. Students will carry out directed independent dissection of human cadaver. **Prerequisites:** BI 336 and instructor's permission.

BI 394. Special Topics in Biology (1-5)

A variety of timely topics may be explored as the demand of students or the interest of the faculty involved dictates.

BI 397. Junior-Senior Project (1-4)

Involves the participation of the students with a faculty member in an individual investigative project or literature review. This course may be repeated for up to 4 credits. **Prerequisite:** Instructor's permission.

BI 494. Special Topics in Biology (1-5)

A variety of timely topics may be explored as the demand of students or the interest of the faculty involved dictates.

BI 496. Internship in Physical Therapy (1-4)

A supervised, practical work experience in physical therapy. The pre-physical therapy student works with registered physical therapists in clinical settings. By exposure to a variety of skills and settings the student gains an understanding of the profession of Physical Therapy. May be repeated for credit. **Prerequisites:** Junior classification, instructor's permission, a cumulative grade point average of 3.25.

BI 498. Senior Seminar (1)

This experience is required of seniors completing the B. S. in Biology degree and involves the written and oral presentation of work completed in BI 397. This course is optional for students completing biology degrees other than the B.S. in Biology.

BUSINESS (BU)

BU 111. Business Seminar (3)

Survey of the field of business including organizing and managing businesses; managing human resources; marketing, introducing financial issues including accounting, money and banking, securities markets; business issues, business ethics and international business.

BU 217. Computer Applications in Business (3)

Introduction to computers as a tool for business including fundamental concepts of information technology and the use of business application software including word processing, spreadsheets, database, graphics, electronic communications, and World Wide Web. **Prerequisite:** Computer proficiency. Offered yearly.

BU 222. Business Communications (3)

Study of the process and objectives of effective business writing and presentations. The course includes a review of English composition of basic business correspondence and e-systems. **Prerequisite:** EN 102. Offered yearly.

BU 233. Math for Business and Finance (3)

An introductory course to statistical theory and applications for business decision-making purposes. Topics include the role and use of statistics, tables and graphs, data analysis, probability distributions, descriptive measures, and statistical inference, including sampling, hypothesis testing, confidence intervals, analysis of variance, quality control, and regression analysis. **Prerequisite:** ACT Math score of 21 or a grade of C or better in MA 130 College Algebra.

BU 294. Special Topics (1-3)

Study of some areas not covered in other business courses. May be repeated for credit.

BU 296. Field Experience in Business (1-3)

Designed to provide an introductory experience as a leader in various business settings. Consists of involvement in various community projects, both as an observer and as a participant. The component includes 30-40 hours per credit when completed. May be repeated for credit in a different setting. **Prerequisite:** Permission of the Director, Undergraduate Business Program.

BU 303. Management Information Systems (3)

The course considers management information systems from the manager's viewpoint as well as that of the accountant and data processing professional. Topics include: introductory concepts, hardware and software resources, many common areas of application, and planning and developing management information systems. The areas of application include: financial information systems; information systems for marketing production, personnel, and managerial-decision models, and general office information systems. **Prerequisite:** BU 217 or Computer proficiency. Offered yearly.

BU 341. Business Law I (3)

Study of the present day law of business in the United States as it relates to contracts, sales, agency, the legal environment, and selected topics. Ethical considerations and international topics are also discussed. **Prerequisite:** BU 342. Offered yearly.

Course Descriptions

BU 342. Business Law II (3)

Study of the present day law of business in the United States as it relates to corporations, agency, and negotiable instruments. Emphasis is also given to legal principles as they apply to partnerships, corporations, and non-corporate associations. Ethical considerations and international topics are also discussed. **Prerequisite:** BU 341. Offered alternate years.

BU 351. Principles of Marketing (3)

Study of marketing from the point of view of the business firm. Topics include the structure of the marketing system, the nature of marketing management, consumer behavior, marketing research, product policy, pricing policy, channels of distribution policy, promotion policy, and analytical techniques useful to marketing management. Offered yearly.

BU 353. Marketing Communications (3)

The course will deal with the use of advertising, personal selling, sales promotion and public relations as elements in a promotional program. A managerial framework is used to emphasize the integrative aspects of the objectives, copy, media selection, budget decision, audience targeting, and the development of an ad campaign. **Prerequisite:** BU 351. Offered alternate years.

BU 355. Sales Management (3)

Functional aspects of sales force management, personal selling methods, procedures for recruiting, selecting, and training new salespeople, compensation and expense control systems, problems of sales force motivation and supervision; methods of territorial and quota assignment, sales department
Budgets, distributor-dealer relations, and other selected topics. **Prerequisite:** BU 351. Offered alternate years.

BU 358. Retail Management (3)

Study of the operation and management of retail organizations. Topics include location, layout, pricing, promotion, and purchasing. **Prerequisite:** BU 351. Offered alternate years.

BU 364. Principles of Management (3)

Study of the functions and principles of management with emphasis on relationships between workers and management as well as between individual employees. Topics cover the areas of planning, organizing, directing and controlling personnel, and decision-making procedures and techniques. Offered yearly.

BU 365. Human Resource Management (3)

Strategic issues in managing human resources, developing and implementing human resource policies, and procedures, human resource planning, job design, analysis and

evaluation, staffing, compensation, performance appraisal, training and development career management, labor relations, and legal, ethical and global Human Resource issues. Offered alternate years.

BU 366. Real Estate (3)

Introduction to the terminology, practices and laws regarding acquisition, disposition, holding, and leasing of real property. Appraisal value concepts, analysis of city, neighborhood, and site data. Procedures of selling and handling transactions. Offered alternate years.

BU 371. Financial Management (3)

Introduction to financial management, including financial statement analysis, valuation of cash flows, capital budgeting, the time value of money, the concepts of risk and return, cost of capital, and applications of these concepts in the firm. **Prerequisites:** AC 107, EC 241, and MA 224 or any 100 level mathematics course. Offered yearly.

BU 372. Financial Applications (3)

Study of selected financial decisions using the case study approach. **Prerequisites:** AC 107; BU 371. Offered alternate years.

BU 374. Principles of Insurance (3)

Study of the basic principles of insurance and risk-bearing, major fields of private insurance, and elements common to all fields. Emphasis is also given to insurance in the economy, various ways of handling risk, types of insurance carriers, reinsurance, major contract provisions, and insurance regulations. **Prerequisite:** BU 371. Offered alternate years.

BU 376. Investments (3)

Study of investments dealing primarily with the major securities markets, classification of securities, determinants of risk and return, and selection of appropriate investment policies for both individuals and institutions. **Prerequisite:** MA 224 or any 100 level mathematics course. Offered alternate years.

BU 381. Business Ethics (3)

This course covers the ethical aspects from a Christian perspective of management decision making which pose fundamental questions about executive decisions and the human impact of corporate power. Offered yearly.

BU 394. Special Topics (1-3)

Study of some areas not covered in other business courses. May be repeated for credit.

Course Descriptions

BU 396. Internship in Business (3)

On-the-job experience involving decision-making and problem-solving techniques, skills and knowledge acquired in the classroom. This experience is under the supervision of both a businessperson and professor. **Prerequisite:** Permission of the Director, Undergraduate Business Program. Offered yearly.

BU 456. Marketing Metrics (3)

Integrated course that examines Consumer Behavior theory and develops the marketing research skills needed to measure customers' attitudes and predict their behavior.

Prerequisites: BU 351, BU 233, or MA 224. Offered alternate years.

BU 459. Global Marketing (3)

The course covers the differences between marketing endeavors in international markets and those applicable to domestic markets. Differences in culture and customs as they relate to marketing are also analyzed. **Prerequisite:** BU 351. Offered alternate years.

BU 460. Global Business Strategies (3)

The course will cover the structure of global operations, methods, and techniques of licensing, joint ventures, and parent-subsidiaries. **Prerequisite:** BU 364. Offered alternate years.

BU 461. Entrepreneurship (3)

Major topics include: identifying potential high growth business opportunities, characteristics of entrepreneurs, developing creativity, evaluation market potential, preparing a business plan, and choosing an exit or succession strategy. **Prerequisites:** BU 364, BU 351. Offered alternate years.

BU 467. Organizational Behavior (3)

A study of the effects of organizational structure and style on morale, productivity, and efficiency. **Prerequisite:** BU 364. Offered alternate years.

BU 469. Global Operations Management (3)

The course will cover the structure of global operations, and apply quantitative tools needed to make effective decisions. The interaction of operations within the organization will be studied. Offered yearly.

BU 471. Advanced Financial Management (3)

Applications of financial management theory with practice in financial cases. Includes strategic investment decisions, strategic financing decisions, working capital decisions, and extensions of risk and return. **Prerequisite:** BU 371. Offered alternate years.

BU 496. Field Experience in Business (1-3)

Designed to provide an introductory experience as a leader in various business settings. Consists of involvement in various community projects, both as an observer and as a participant. The component includes 30-40 hours per credit when completed. May be repeated for credit in a different setting. **Prerequisite:** Permission of the Director, Undergraduate Business Program.

BU 498. Senior Seminar In Business (3)

Applications seminar requiring students to utilize various business concepts. The main emphasis of the course will be on entrepreneurial research projects, but additional topics of current interest in business will be covered. **Prerequisites:** Business or accounting major with senior classification and instructor's permission. Offered yearly.

STEP PROGRAM

BU 311. Junior Seminar (3)

Overview of the business field. Management, marketing, human resources, financial management, accounting, business ethics, and international business will each be explored. Specific consideration will be given to how each of the functional areas work together to provide synergy for the firm. **Prerequisites:** Admission to the STEP Program. BU 317. Computer Applications in Business (3)

Key computer applications used in the business environment today will be covered. Topics covered include word processing, spreadsheets, databases, graphics, electronic communications, and the World Wide Web. In addition to understanding the individual computer applications, students will observe how the applications fit within the organizational information system structure. **Prerequisite:** Admission to the STEP Program.

BU 322. Business Communications (3)

The course compares and contrasts business communications to other communication models. Both oral and written business communication topics will be covered. Attention will be given to communication through electronic business channels. **Prerequisite:** Admission to the STEP Program.

BU 333. Mathematics for Business and Finance (3)

An applied course that examines mathematical principles in the context of business decision making. Mathematical topics will be applied to several functional areas including operations management, business forecasting, and finance. Statistics and probability will be reviewed. Other topics include compound interest, time value of money, and linear programming. **Prerequisite:** Admission to the STEP Program.

CHEMISTRY (CM)

CM 100. Preparatory to Principles of General Chemistry (3)

To be taken by students who do not have proper high school preparation for college chemistry. This course will prepare a student for entry into either CM 121 or CM 221. No prior knowledge of chemistry assumed. This course does not meet a General Education Requirement. **Prerequisite:** High School algebra.

CM 111. Chemistry in Society (4)

An examination of the role of chemistry in today's society: historical aspects, technological advances, industrial applications, environment and ecology applications. No prior knowledge of chemistry is assumed.

CM 121. Principles of General, Organic and Biochemistry (5)

An introduction to the major areas of chemistry needed for a career in the health sciences including: stoichiometry, states of matter, pH, equilibrium, organic functional groups, organic structure, reactions, lipids, carbohydrates, steroids, proteins, enzymes, RNA-DNA, metabolism and the chemistry of nutrition. **Prerequisites:** High school chemistry or CM 100. Lecture and laboratory.

CM 221, 222. General, Inorganic and Physical Chemistry (5 each)

An in-depth survey of the principles underlying chemistry including atomic structure, periodic table and periodic law, bonding, chemical reactions, stoichiometry, states of matter, pH, equilibrium, nuclear and industrial chemistry. Previous chemistry is recommended and previous mathematics through Algebra II. Lecture and laboratory.

CM 261. Fundamentals of Analytical Chemistry (4)

An application of the principles and reactions of chemistry as they relate to product quality and analysis of materials. Includes sampling, statistics, chemical and electrochemical methods. Includes in-depth review of pH, electrochemistry, and stoichiometry, with emphasis on using spreadsheets to simulate and analyze. Lecture and laboratory. **Prerequisite:** CM 222.

CM 294. Topics in Chemistry (1-5)

A study of a current topic in chemistry or biochemistry. Topics may include, but are not limited to, environmental chemistry, organic chemistry, computer modeling and biochemical advancements. **Prerequisite:** Instructor's permission.

CM 321, 322. Organic Chemistry (4 each)

An in-depth analysis of modern organic chemistry including structure, bonding, stereochemistry, reactions, mechanisms, synthesis and laboratory notebook record keeping. Includes laboratory. **Prerequisite:** CM 222.

CM 331. Inorganic Chemistry (5)

A in-depth analysis of inorganic chemistry with review of atomic structure, bonding, and periodic properties. Includes states of matter, structure of materials and coordination and organometallic chemistry. Lecture and laboratory. **Prerequisite:** CM222. Offered alternate years.

CM 341, 342. Biochemistry (4 each)

An in-depth analysis of the major areas of biochemistry. Both quantitative and qualitative chemistry of biomolecules will be studied. This foundation will built upon and explore the structure, metabolism and genetic expression of biological systems. An in-depth survey of the major areas of biochemistry. **Prerequisite:** CM 322. **Co-requisite:** CM 345.

CM 345. Laboratory for Biochemistry (1)

A practical application of biochemistry techniques to investigate the principles of biochemistry. Students will engage in experiments that make use of spectroscopy, chromatography and enzymology, and other methods. Written communication, in the form of reports and notebooks, will be used to develop these standard science skills and practices. **Co-requisite:** CM 341.

CM 346. Laboratory for Biochemistry (1)

The application of advanced biochemistry techniques to supervised projects. Experimental design, computer modeling, written communication and time-management are evaluated. **Prerequisite:** CM 345. Offered alternate years.

CM 351. Physical Chemistry for Chemistry and Biochemistry (5)

A survey of thermodynamics, equilibria, and kinetics with emphasis on concepts and applications in chemistry, biochemistry and materials. **Prerequisites:** CM 222 and MA 151 or MA 251. Lecture and laboratory. Offered alternate years.

CM 361. Chemical and Biochemical Instrumentation (5)

A survey and application of the instrumental methods used to study properties, reactions and to identify molecules. Includes spectroscopic, separation methods, instrumentation management, maintenance, repair, writing protocols and method development. **Prerequisite:** CM 222 (CM 261 highly recommended). Offered alternate years.

CM 390. Practicum: Laboratory Management (1)

A supervised, practical work experience in planning, preparing, teaching and evaluating laboratories. Includes practice in budgeting and ordering and managing chemicals and equipment. **Prerequisite:** Permission of Department Chair.

Course Descriptions

CM 391. Practicum: Laboratory Safety (1)

A supervised experience in the safety aspects for laboratory management and instruction. Includes considerations for personal and student safety, Right-to-Know, OSHA, EPA, NFRA regulations and practices. **Prerequisite:** Permission of Department Chair.

CM 394. Topics in Chemistry (1-5)

An advanced study of a current topic in chemistry or biochemistry. Topics may include, but are not limited to, environmental chemistry, organic chemistry, computer modeling and biochemical advancements. **Prerequisite:** Instructor's permission.

CM 451. Advanced Physical Chemistry (4)

An in-depth examination of physical chemistry by introduction to quantum mechanics. Includes derivation of fundamental principles and applications to computational predictions, materials, and spectroscopy. **Prerequisites:** CM351, MA 252. Offered alternate years.

CM 471. Structure Elucidation (1)

Identification of organic compounds using physical and chemical properties, infrared and nuclear magnetic resonance spectroscopy, and mass spectrometry. **Prerequisite:** CM 322.

CM 472. Advanced Organic Chemistry (1)

Advanced study of organic reaction mechanisms and synthesis including: the Hammett equation, isotope and substituent effects and orbital symmetry. **Prerequisite:** CM 322.

CM 494. Topics in Chemistry (1-5)

An advanced study of a current topic in chemistry or biochemistry. Topics may include, but are not limited to, environmental chemistry, organic chemistry, computer modeling and biochemical advancements. **Prerequisite:** Instructor's permission.

CM 497. Junior-Senior Project (1-6)

A capstone experience consisting of a faculty supervised independent investigative project. **Prerequisite:** Permission of the Department Chair.

CM 498. Senior Seminar (1)

An oral and written communication of the Junior/Senior Project. **Prerequisite:** Permission of the Department Chair

CHRISTIAN EDUCATION (CE)

CE 181. Introduction to Christian Education (3)

An introduction to the history and philosophy of the educational work of the church. The various programs of Christian education will be introduced.

CE 275. Technology in the Classroom (3)

An overview of the use and integration of technology in education. Emphasis will be on the use of the computer and the role of new and emerging educational technology. Attention will also be given to the preparation of educational resources including displays and bulletin boards. (See ED 275.)

CE 286. Camping and Recreation Ministries (2)

An introduction to the philosophy, methods, and skills necessary to plan, organize, and administer camping and recreation ministries for the local church and/or other connectional entities.

CE 294. Workshop in Special Ministries (1-3)

A workshop approach to aspects and problems of religious education and/or compassionate ministries. Topics and coordinators will vary. May be repeated for a different topic.

CE 381. Children's Ministries (2)

A study of the characteristics of children; an introduction to their spiritual needs and their development; the challenge of the church in meeting their total needs.

CE 382. Youth Ministries (2)

A study of those activities related to the church, which involve youth. The course is particularly designed to aid those who are specializing in a ministry to youth.

CE 383. Adult Ministries (2)

A study of the nature and needs of adults with special attention given to special groups in adulthood and their faith development.

CE 481. Leadership and Administration I (2)

A study of the principles of leadership and administration in Christian ministries. Special attention will be given to conflict management and professional ethics. (See PT 481.)

CE 482. Leadership and Administration II (2)

A study of the principles of leadership and administration in Christian ministries. Areas to be discussed will include: spiritual gifts; selecting, organizing, and maintaining a

Course Descriptions

church staff; personal and church resource management. Field trips to several churches with multiple staff will be included. (See PT 482.)

CE 494. Topics in Special Ministries (1-3)

A concentrated exposure to some phase of religious education and/or compassionate ministries practitioners and others with special skills. May be repeated for a different topic.

CE 496. Special Ministries Internship (3-12)

A practical course, open only to seniors of the Department of Religion, involving a ministry experience in areas including preaching, counseling, teaching, education, evangelism, and administration. This experience will be under the direction of the instructor in cooperation with a supervising ministry mentor. May be repeated for credit.

CHURCH HISTORY (CH)

CH 142. History of Christian Missions (2)

A study of the universal expansion of Christianity from the apostolic age to the present. Biblical, historical, and theological bases for Christian mission as well as missiological principles and their application will be explored.

CH 241. History and Manual, Church of the Nazarene (2)

A study of the historical backgrounds and development of the Church of the Nazarene. Special attention will be given to the content and spirit of the Manual of the Church of the Nazarene.

CH 344. History of Christianity in America (4)

A study of American Christianity from the colonial period to the present. The course will focus on the varieties of the religious experience in historical context. Included will be such themes as Puritanism, The Great Awakenings, Christian Utopias, the Social Gospel, Fundamentalism, and liberation theology. Emphasis will be placed on the mutual influence of religion and American culture. Offered alternate years. (See HS 344.)

CH 353. History of the Wesleyan-Holiness Tradition (2)

A study of the historical development of the Wesleyan-Holiness tradition, including its theological sources and influences in the early church to late Reformation period, the development of Methodism under the leadership of John Wesley, and the extension of Methodism and the Holiness Movement in America through the 19th century. Particular focus will be given to theological developments in historical context.

Prerequisites: BL 111, TH 211. (See TH 353.)

CH 361. History of the Christian Tradition I (3)

A study of the historical development of Christianity from 150 to 1000 C.E. The course will trace the significant influences in history on the theological and ecclesiastical changes and maturation through the first ten centuries. The student will be given opportunity to read primary sources as well as grasp the overall flow of Church History.

Prerequisites: BL 111, TH 211.

CH 362. History of the Christian Tradition II (3)

A study of the historical development of Christianity from 1000 to 2000 C.E. The course will trace the significant influences in history on the theological and ecclesiastical changes and maturation from the middle ages through the present. The student will be given opportunity to read primary sources as well as grasp the overall flow of Church History. **Prerequisites:** BL 111, TH 211.

CH 394. Topics in Church History (1-4)

An examination of some phase of church history not covered in other courses. May be repeated for credit.

COMMUNICATION STUDIES (CO)

CO 121. Fundamentals of Speech (3)

Introductory course in effective speech preparation, delivery and audience analysis. Improvement of listening and performance skills are emphasized through written and oral critiques.

CO 131. Performance of Literature (3)

Understanding the intellectual, emotional and aesthetic aspects of literature with emphasis on its communication to the listener.

CO 142. Introduction to Public Relations (3)

An introduction to the theory, research, and practical aspects of public relations. Emphasis will be placed on the process of public information dissemination in business, industrial, educational and social organizations.

CO 201. Small Group Communication (3)

An approach to small group communication theory with emphasis on identifying and developing appropriate communication strategies for problem solving groups.

CO 202. Media Systems and Literacy (3)

Study of the history, structures, technologies, genres, theories and influences of the mass media on individuals and society. Designed to prepare students to be media literate, critical, and responsible producers and consumers of the mass media.

Course Descriptions

CO 203. Interpersonal Communication (3)

Introductory course stressing communication as the foundation for all interpersonal relationships. Goals for the course are two-fold: to present current theories on interpersonal communication, and to provide insights for improving our interpersonal communication relationships with others.

CO 225. Introduction to Scriptwriting (3)

A survey of the process, forms, and techniques for writing scripts for television and film. This includes advertising, news and documentary, corporate training and promotion. Course includes lecture, scriptwriting exercises and labs, and analysis and critique of student work. [Restricted to Communication Studies majors, other by instructor permission.]

CO 226. Introduction to Video and Audio Production (3)

Study of the roles and processes in studio and remote video production, and basic audio production. This includes the technical and creative aspects of producing, directing, camera, lighting, sound, editing, graphics, and basic engineering for television. Course includes traditional lecture, lab exercises, CD-ROM instruction, and individual and group video projects. [Restricted to Communication Studies majors, other by instructor permission.]

CO 227. Media Workshop I (1)

A lab course involving the student production of television programming for broadcast or cablecast on a local television station. Students work as production assistants, writers, camera operators, and editors for interview, news, documentary, sports, and other television programming. **Prerequisite:** CO 226, or instructor's permission.

CO 232/332. Readers Theatre (1)

Special study and projects in interpretation leading to performance. May be repeated for credit. **Prerequisite:** By audition only.

CO 241/341. Competitive Individual Speaking (1)

Intercollegiate tournament preparation for and participation in individual events. May be repeated for credit.

CO 251/351. Competitive Debate (1)

Intercollegiate tournament preparation for and participation in debate. May be repeated for credit.

CO 260. Introduction to Directing (3)

Basic directing theory and practice. Projects and exercises in fundamental directing skills. Increasing conceptual skills in rehearsal techniques by directing assigned

materials. **Prerequisite:** CO 232, or 262, or instructor's permission. Offered alternate years.

CO 262/362. Play Production (1)

Production of a full length play with emphasis on acting, directing, and technical work. Multiple options, with instructor approval: Fall Play, Junior Class Play, Parable, Spring Musical, and Community Theatre. May be repeated for credit.

CO 273. Introduction to Communication Disorders (3)

Overview of the disorders of speech, normal speech and language development, disorders of language and articulation.

CO 294/494. Topics in Speech Communication Studies (1-3)

A concentrated study of one topic in speech communication studies. May be repeated for credit. **Prerequisite:** Instructor's permission.

CO 295a/495a. Internship in Public Communication (1-3)

Supervised internship or research in communication. A student may select (1) a professional internship -100 clock hours minimum; or, (2) a major research project. Either activity concludes with a formal written and oral presentation. May be repeated for credit upon approval by the advisor. **Prerequisite:** Courses basic to the area of the internship as approved by the advisor.

CO 295b/495b. Internship in Media Studies (1-3)

A supervised internship experience in a field of media studies. The experience should be an opportunity to use/demonstrate learning in a professional setting. The student is responsible for: 100 clock hours minimum, meetings with major advisor, a daily journal, article/journal reports (3) specific to the internship area, and an ending presentation or report. May be repeated for credit upon approval by the major advisor.

CO 302. Organizational Communication (3)

The study of the nature and function of communication within the organization. Emphasis will be on group process, networks, discussion, decision making, message creation and organizational climate and culture. Offered alternate years.

CO 303. Narrative and Documentary Film (3)

Survey of narrative and documentary motion pictures, from Edison and Lumiere to the present. Course covers the historical, structural, technological, and aesthetic trends of motion pictures through the viewing and analysis of selected classic films that exemplify these trends. Offered alternate years.

Course Descriptions

CO 321. Advanced Public Speaking (3)

A course designed to enable students to improve their public speaking techniques. Emphasis will be placed both on theory and skill development. **Prerequisite:** CO 121; or, instructor's permission. Offered alternate years.

CO 325. Advanced Scriptwriting (3)

An advanced seminar approach to scriptwriting, covering writing for narrative and documentary TV/film. Students write scripts for documentaries, or teleplays/screenplays. **Prerequisites:** CO 225; 426; or, instructor's permission. Offered alternate years.

CO 327. Media Workshop II (1)

A lab course involving the student production of television programming using advanced television equipment and techniques. Students work in leadership roles as producers, directors, editors, and on-camera talent for interview, news, documentary, sports, musical/cultural, and other television programming. May be repeated for credit.

Prerequisite: CO 227.

CO 328. Media Law and Ethics (3)

Survey of media law and ethics and their relevance to the concerns of consumers and producers of mass media. Course includes the following topics: First Amendment, libel, censorship, privacy, copyright and regulation of broadcast, cable, the Internet, and ethical dilemmas and issues involved in the mass media. Offered alternate years.

CO 342. Persuasion (3)

A practical approach to the study of psychological and rhetorical principles vital to influencing human behavior. Offered alternate years.

CO 350. Argumentation and Debate (3)

Theory and practice of argumentation and debate. Research, analysis, reasoning, evidence, preparation of briefs, organization, and delivery. Intercollegiate tournament participation encouraged but not required. Offered alternate years.

CO 365. Teaching Communication Studies in the Secondary School (3)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experiences are included. **Co-requisite:** ED 351, (see ED 365), and **instructor permission.** Offered alternate years.

CO 426. Advanced TV/Film Directing and Production (3)

Advanced techniques of film style, television, documentary, and feature film production. Course includes digital, non-linear editing technique, and the production

of news-documentary and dramatic television programs. **Prerequisite:** CO 226, 325; or, instructor's permission. Offered alternate years.

CO 444. Rhetorical Theory and Criticism (3)

Explores classical and modern perspectives of rhetoric. Includes a study of classical and modern rhetoricians and their contributions to the art of rhetoric. Offered alternate years.

CO 461. Communication Theory, Research and Society (3)

Study of communication theories and the influence of communication on individuals and society. This course includes a survey of selected topics, research designs and methods in communication, culminating in original student papers and/or group research projects. Offered alternate years.

CO 498. Seminar in Communication Studies (1)

A review of the field of Communication. Emphasis will be placed on interviewing and future opportunities. Culmination of the course will involve an oral report concerning the student internship from CO 495a and/or CO 495b. Required of seniors in the major(s). Juniors in the major(s) and second teaching field education majors may take the course upon approval of the faculty of the department.

COMPUTER SCIENCE (CS)

CS 122. Introduction to Computer Science (4)

A survey course of the computer science field and an introduction to programming. Topics include: data storage and manipulation within main memory, operating systems, algorithms, programming languages, software engineering, compilers and language translation, networking, data structures, file structures, database structures, and social and legal issues. **Prerequisites:** MA 130, ACT math score 23 or higher, or Instructor's permission.

CS 206. Computer System Maintenance (3)

An introductory course on the maintenance and repair of Intel based Personal Computers. Course content includes hardware maintenance, repair, and configuration; DOS software installation and configuration; Windows installation and configuration; and network trouble isolation as relating to the PC. The course requires working directly with the computer equipment. **Prerequisite:** Instructor's permission.

CS 222. Computer Programming in C++ (4)

Further study of the syntax and semantics of the C++ programming language using object-oriented design methodology. Problem-solving heuristic and algorithm development will be emphasized. **Prerequisite:** CS 122.

Course Descriptions

CS 226. Event-Driven Programming (4)

An introduction to the principles of developing application programs to run in a Windows environment. Development of real-world, multi-form, commercial applications taken from engineering, business and industry will be emphasized.

Prerequisite: CS 222. Offered alternate years.

CS 263. Assembly Language Programming (3)

An introduction to the basic concepts of a computer system and its architecture using the 80x86 microprocessor. This includes memory, control, and arithmetic logic unit (ALU) interactions. Instruction types, formats, and data representation are studied.

Prerequisite: CS 222.

CS 275. Data Structures (3)

Introduction to commonly used computer data structuring techniques. Topics include graphs, stacks, queues, lists, trees, sorting, searching, and memory management.

Prerequisite: CS 222.

CS 294. Topics in Computer Programming (1-4)

An intensive study of one programming language not covered in other courses. May be repeated for credit. **Prerequisite:** Instructor's permission.

CS 333. Database Design and Programming (4)

An introduction to application program development in a database environment with an emphasis on data structures, file organization, hierarchical network and relational data models, storage devices. **Prerequisites:** CS 275, MA 231. Offered alternate years.

CS 337. Systems Analysis and Design (4)

A study of techniques and tools used to analyze problems with an emphasis on defining the present state of a system and offering a set of alternative designs, which provide an improved system. The types of optimization criteria and tools for performing this analysis will be investigated with examples from business and engineering.

Prerequisite: CS 222. Offered alternate years.

CS 343, 344. Operating Systems and Compilers I, II (4 each)

An introduction to the major concepts of operating system and compiler principles. This includes an understanding of the organization and architecture of computer systems at the register-transfer and programming levels of system description. This includes operating system concepts relating specifically to current operating system standards and a formal treatment of programming language translation and compiler concepts. **Prerequisites for CS 343:** CS 263, 275. Offered alternate years.

Prerequisites for CS 344: CS 343. Offered alternate years.

CS 353. Computer Graphics (4)

An overview of the hardware, software, and techniques used in computer graphics. Topics include 2-D and 3-D transformations, clipping, windowing, display files, surface plots and fractals. **Prerequisites:** CS 263, CS 275. Offered alternate years.

CS 363, 364, 365. Networks I, II, III (3 each)

A study of digital data communications in computer networks. The problems, rationales, and possible solutions for various communications protocols will be discussed. CS 363: OSI model and various network protocols. CS 364: Application of network and network administration and operating principles. CS 365: Advanced topics of network administration. **Prerequisites for CS 363:** CS 263, CS 275. Offered alternate years. **Prerequisite for CS 364:** CS 363. Offered alternate years. **Prerequisite for CS 365:** CS 364 Offered alternate years.

CS 394. Special Topics in Computing (1-4)

A study of some areas not covered in other computing courses. May be repeated for credit. **Prerequisite:** Instructor's permission.

CS 397. Introduction to Senior Project (1)

Presentation of possible topics for the senior software development project. Discussion of the style of the written paper and oral presentation. Methods of collecting background information and data will be presented. Attendance at Senior Seminar presentations is required. **Prerequisites:** Junior classification, Computer Science major.

CS 468. Software Development Project (4)

An application of the computer programming and system development concepts, principles, and practices to a comprehensive systems development project. The student may work individually or as a part of a team in the development of a significant software project. **Prerequisites:** Senior classification, CS 397.

CS 498. Senior Seminar (1)

Required of and limited to senior students. The seminar involves the written and oral presentation of the research project completed in CS 468. **Prerequisite:** CS 468. Must be taken at NNU.

ECONOMICS (EC)

EC 101. Personal Finance (3)

An introduction to personal economics decision making with emphasis on the financial choices faced by individuals in the build-up and management of net worth. Topics covered include education and experience, earning and spending, savings and debt, taxes and inflation, insurance, investments, and contracts.

Course Descriptions

EC 105. Analysis of Economic Issues (3)

Introduction to the theory of supply and demand, and application of this theory to economic issues such as social security, crime, medical care, poverty, higher education, economic systems, pollution, big business, free trade, the U.S. national debt, and economic growth. **Prerequisite:** ACT mathematics score of 20 or better; or, a college level mathematics course.

EC 241. Microeconomic Analysis (3)

A study and application of microeconomic analysis; includes supply, demand, pricing, consumer choice, and international concerns. Offered yearly.

EC 242. Macroeconomic Analysis (3)

A study and application of macroeconomic analysis; includes gross national product, national income, consumption, investment, inflation, and economic growth and development, and international applications. Offered yearly.

EC 315. Managerial Economics (3)

A study of microeconomic tools related to decision variables within the firm, most specifically to the determinant of pricing and production policies. **Prerequisite:** EC 241. Offered alternate years.

EC 351. Money and Financial Institutions (3)

A study of monetary economics: fluctuations of money, determinants on money supply and demand, study of financial institutions, determinants of interest rates, principles and practice of banking and financial intermediaries, formation of monetary policy, the Federal Reserve System, and international monetary forces. **Prerequisite:** EC 242; or, instructor's permission. Offered alternate years.

EC 405. Global Economics (3)

Theories of trade, patterns of international trade, trade policies, theories of exchange rates, balances of international payments, and international monetary policies. **Prerequisite:** EC 105, or EC 241, or EC 242. Offered alternate years.

EC 415. Financial Economics (3)

A survey of economic theories applied to the microeconomic decisions individuals and institutions make in financial markets. Intermediate microeconomic theory is applied in the context of decision-making in financial markets and institutions. **Prerequisite:** EC 241. Offered alternate years.

STEP PROGRAM

EC 341. Microeconomic Analysis (3)

A study of economics as it relates to the firm and other individual decision making units in the economy. Students will explore pricing policy, supply and demand issues, and economic drivers of consumer decision processes. Students will discuss the topics in the context of practical business settings. **Prerequisite:** Admission to the STEP Program.

EC 342. Macroeconomic Analysis (3)

A study of economic issues as they relate to the economy as a whole. Topics include gross national product, national income, consumption, investment, inflation, and economic growth. Students will examine the issues in the context of current domestic and global economic policies. **Prerequisite:** Admission to the STEP Program.

EDUCATION (ED)

ED 110. Introduction to Teaching (1)

A brief survey of the teaching profession, emphasizing student self-evaluation of potential for teaching. A field experience of 25 hours is part of this course.

ED 211. Educational Psychology (3)

A study of the psychological implications involved in the teaching-learning situation with emphasis on those psychological principles applicable to children ages 6-12 and adolescents 13-18. A variety of learning and developmental theories based on research from the field of psychology are covered. **Prerequisites:** PY 155, sophomore classification. (See PY 211.)

ED 275. Technology in the Classroom (3)

An overview of the use and integration of technology in education. Emphasis will be on the use of the computer and the role of new and emerging educational technology. Attention will also be given to the preparation of educational resources. (See CE 275)

ED 294. Special Topics in Education (1-4)

An opportunity to study current issues in the field of education. Topics may vary. May be repeated for credit. **Prerequisite:** Instructor's permission.

ED 296. Field Experience (1)

An overview of the principles of learning and classroom observation and participation. The observation and participation component includes 30 hours of field experience. Student placements are based on previous field work and individual needs. This course should not be taken the same semester as ED 315, 325, 326. **Prerequisites:** ED 110, 211; or, instructor's permission.

Course Descriptions

ED 314. Early Childhood Education (2)

A survey of the principles and practices relevant to educating the young child. The course examines components of a developmentally appropriate learning environment and emphasizes implementation of integrated, thematic curricula in K-1. **Prerequisite:** ED 211. Offered alternate years.

ED 315. Education of Exceptional Children (3)

A survey of the characteristics and educational needs of disabled and gifted children and youth. This course will emphasize the causes, incidence, and implications of disabilities for schools. Discussions include characteristics, appropriate technology, state and federal legislation, current issues, and resource agencies. Activities include appropriate teaching techniques, case studies, writing Individualized Education Plans, and a 15-hour field experience. **Prerequisites:** PY 155, ED 110, 211.

ED 324. Management and Motivation in Inclusive Elementary Classrooms (3)

An in-depth study of classroom management principles for elementary teachers. Topics include proactive strategies, teaching new behaviors, strengthening existing behaviors, maintaining changed behaviors, and reducing or eliminating undesirable behaviors. Students will learn how to observe behavior, collect data and use it in decision making, develop programs for behavioral change, and counsel with parents and students. **Prerequisite:** Admission to teacher education.

ED 325. Fundamentals of Reading (3)

An in-depth study of the essential components necessary for developing the literacy capabilities of elementary children. Emphases include understanding of language development and the reading process, emergent literacy, phonemic awareness, phonics decoding skills, and comprehension skills. The course also explores approaches to teaching reading, classroom organization, the reading/writing connection, and assessing and monitoring reading progress. An elementary classroom reading practicum is an integral part of the course. **Prerequisites:** Admission to teacher education; department approval; junior classification.

ED 326. Reading in the Content Areas: Elementary (3)

Examines theory and methods for developing the content literacy of elementary students. Related topics explored during the course include integrating curriculum, approaches to planning instructional units, and effective use of textbooks and informational books. **Prerequisites:** Admission to teacher education; department approval; junior classification.

ED 331. Teaching the Bilingual/Bicultural Child (1)

An exploration of teaching strategies appropriate to children with a non-English first language will acquaint the student with the uniqueness of bilingual/bicultural children

and with a different culture and its values. **Prerequisites:** ED 211; admission to teacher education.

ED 333. Teaching Art in the Elementary School (3)

Introduces elementary education majors to theoretical and practical experiences necessary for incorporating a discipline-based art education program into the elementary school curriculum. This course may include actual practicum teaching experiences. (See AR 333.)

ED 334. Teaching Music in the Elementary School (2)

Study in the application of the principles, procedures, and objectives in school music in the primary and intermediate grades. Special emphasis is given to the basic elements of music and creativity as found in Orff and Kodaly as well as folk music of various cultures and traditions. **Prerequisites:** ED 211; instructor's permission. (See MU 331.)

ED 335. Teaching Health in the Secondary Schools (2)

Designed to provide knowledge and background in three divisions of health education: healthful living, school health services, and health education. Recognition of health problems of children and adolescents with opportunity to develop competencies in handling methods and teaching techniques. Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experiences are included.

Prerequisite: Junior classification. **Co-requisites:** ED 351, 336. (See KI 354.)

ED 336. Teaching Physical Education in the Secondary Schools (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experiences are included. **Prerequisite:** Junior classification. **Co-requisites:** ED 351, 335. (See KI 352.)

ED 337. Teaching Health in the Elementary Schools (1-2)

An introduction to health education and will acquaint the teacher with contemporary concepts for teaching health in the elementary school. Emphasis will be on learning and identifying health needs in the elementary school population. **Prerequisites:** ED 211, ED 296. (See KI 332.)

ED 338. Teaching Physical Education in the Elementary Schools (2)

A survey of the aims and objectives of physical education in the elementary school. Motor development in age appropriate fitness and sports skills activities will be introduced. **Prerequisites:** ED 211, ED 296. (See KI 334.)

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ED 351. Teaching Strategies in the Secondary School (3)

An investigation of teaching methods and techniques appropriate for the secondary school classroom. Theoretical principles upon which teaching strategies are based and the principles of classroom management will be considered. Lesson and unit planning are included. Mini-teaching experiences are an integral part of this course.

Prerequisites: ED 110, 211, 275, 296, 315; 32 credits in a teaching area or field; admission to teacher education; department approval; junior classification. (Application for student teaching must have been submitted the fall semester prior to enrollment in the course.) **Co-requisite:** ED 361; Methods course in the teaching major.

ED 353. Teaching Art in the Secondary School (3)

Examines pragmatic techniques and philosophical approaches necessary to design, implement, and evaluate a comprehensive discipline-based art education program at the secondary school level. Additionally, both historical and contemporary art education issues are examined, discussed, and evaluated. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See AR 353.)

ED 354. Teaching Music in the Secondary School (3)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Activities and music of various cultural groups will be explored. Micro-teaching and other simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See MU 332.)

ED 357. Teaching Mathematics in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See MA 301.)

ED 358. Teaching Social Studies in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351.

ED 359. Teaching Language Arts and the Writing Process in the Secondary School (3)

A study of secondary English language arts teaching strategies, instructional materials and tools, and curricular structure. The course includes recent theory and practice in the teaching of writing with an emphasis on process. Teaching experience is included.

Prerequisite: Junior classification. **Co-requisite:** ED 351. (See EN 379.)

ED 361. Teaching Reading in Content Areas: Secondary (3)

An examination of theory and methods for developing content literacy of secondary students. Emphasis is on the teacher's role helping students to successfully learn from textual material through reading and writing strategies. **Prerequisites:** Admission to teacher education; department approval; junior classification. **Co-requisite:** ED 351.

ED 363. Teaching Foreign Language in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See SP 363.)

ED 364. Teaching Science in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351.

ED 365. Teaching Communication Studies in the Secondary School (3)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experiences are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See CO 365.)

ED 396. Field Experience (1)

A 30-hour field experience consisting of classroom observation and participation in lesson preparation and classroom presentations. Student assignments will be based on previous experience and individual needs. This course should not be taken the same semester as enrollment in ED 296, 315, 325 or 326. **Prerequisites:** ED 110, 275, 296; instructor's permission. May be repeated for credit.

ED 411. Psychology of Learning with Laboratory (4)

An examination of the basic principles and theories of learning with major attention given to the problems of human learning. Lecture and laboratory. **Prerequisite:** 9 credits in psychology. (See PY 411.) Offered alternate years.

ED 442. Internship: Methods for Instruction I (6)

An examination of teaching methods coordinated with classroom experience in a professional development school context. In this course, students explore general teaching strategies for guiding learning, and methodology specific to the various subject area disciplines in elementary school curricula. Attention is given to understanding interdisciplinary teaching, to assessing student needs and monitoring progress toward learning outcomes. Topics in this course are closely coordinated with experience in ED

Course Descriptions

444 Internship: Clinical Experiences I to provide for firsthand applications. **Prerequisites:** ED 110, 211, 275, 296, 315, 325, 326, 331; approval for intern year; senior classification. **Co-requisites:** ED 444, 446, 481.

ED 443. Internship: Methods for Instruction II (6)

An examination of teaching methods coordinated with classroom experience in a professional development school context. In this course, students explore general teaching strategies for guiding learning, and methodology specific to the various subject area disciplines in elementary school curricula. Attention is given to understanding interdisciplinary teaching, assessing student needs and monitoring progress toward learning outcomes. Topics in this course are closely coordinated with experience in ED 445 Internship: Clinical Experiences II to provide for firsthand applications. **Prerequisites:** ED 442, 444, 446; **Co-requisites:** ED 445, 492.

ED 444. Internship: Clinical Experiences in the Elementary School I (6)

An immersion into the total educational process in a professional development school setting. Interns in this year-long experience will participate as junior faculty members in an elementary school. Experiences will range from a wide variety of assisting roles to an extended period of solo teaching. Emphases will include application of best practices to classroom instruction, analysis and reflection on curriculum and classroom issues, and goal-setting for professional growth. Interns will be expected to demonstrate competency in each of the domains of the Framework for Teaching: Planning, Classroom Environment, Instruction, and Professionalism. **Prerequisites:** ED 110, 211, 275, 296, 315, 325, 326, 331; approval for intern year; senior classification. **Co-requisites:** ED 442, 446, 481.

ED 445. Internship: Clinical Experiences in the Elementary School II (6)

An immersion into the total educational process in a professional development school setting. Interns in this year-long experience will participate as junior faculty members in an elementary school. Experiences will range from a wide variety of assisting roles to an extended period of solo teaching. Emphases will include application of best practices to classroom instruction, analysis and reflection on curriculum and classroom issues, and goal-setting for professional growth. Interns will be expected to demonstrate competency in each of the domains of the Framework for Teaching: Planning, Classroom Environment, Instruction, and Professionalism. **Prerequisites:** ED 442, 444, 446, 481; **Co-requisites:** ED 443, 492.

ED 446. At-Risk Readers (3)

An examination and application of research and best practices for accelerating the progress of struggling readers in the elementary school. Interns will gain a knowledge base about the connection between language acquisition and literacy development, strategies to improve decoding, fluency and comprehension abilities, and of various literacy assessments for making instructional decisions. Application of this knowledge

will be evidenced as interns provide diagnostic and literacy support to struggling readers over the semester. **Co-requisites:** ED 442, 444, 481.

ED 457. Classroom Management (1)

This course provides guidance in understanding the behavior of secondary students. Attention is given to organizing the classroom, providing positive support to students, and working with disruptive secondary students. **Prerequisite:** Approval for student teaching. **Co-requisites:** ED 486 or 487, 492.

ED 481. Elementary School Start-Up (1)

Attendance at the opening faculty meetings, assisting in the preparation for opening of school and observing and assisting the teacher in a regular public school classroom situation during the first week of school. This work is to be done in the fall before the intern year. **Prerequisites:** ED 110, 211, 275, 296, 315, 325, 326, 331; approval for intern year; senior classification. Materials and instructions for this course must be secured from the Director of Student Teaching three months in advance of the opening of school. **Co-requisites:** ED 442, 444, 446.

ED 485. Secondary School Start-Up (1)

Attendance at the opening faculty meetings, assisting in the preparation for opening of school and observing and assisting the teacher in a regular public school classroom situation during the first week of school. This work is to be done in the fall before student teaching. **Prerequisites:** Approval for student teaching, senior classification. Materials and instructions for this course must be secured from the Director of Student Teaching three months in advance of the opening of school.

ED 486. Student Teaching in the Middle School/Junior High School (12)

Directed observation, participation and responsible teaching conducted under supervision in a middle school/junior high school. Weekly seminars are a part of this program. September experience is required. **Prerequisites:** Approval for student teaching; ED 351, 361, special methods course. **Co-requisites:** ED 457, 492.

ED 487. Student Teaching in the Senior High School (12)

Directed observation, participation and responsible teaching conducted under supervision in a senior high school. Weekly seminars are a part of this program. September Experience and ED 492 are required. **Prerequisites:** Approval for student teaching; ED 351, 361; special methods course. **Co-requisites:** ED 457, 492.

ED 491. Middle School: A Program for Early Adolescents (2)

An examination of the historical background, purposes and functions of the middle school aimed at meeting the needs of the preadolescent and early adolescent. The needs of this age group and the organization of the curriculum are emphasized. Attention will be given to current teaching patterns, such as interdisciplinary and team teaching, as

Course Descriptions

well as to the role of the teacher in guidance through advisories and exploratory activities. On-site observation in middle schools is part of the class. Offered alternate years.

ED 492. Foundations of Education (2)

A capstone experience focusing on factors that mold or modify education. Emphasis is placed upon historical, philosophical, legal, and social issues. **Prerequisite:** Approval for intern year or student teaching. **Co-requisites:** Elementary: ED 443, 445. Secondary: ED 486 or 487, 457.

ED 494. Special Topics in Education (1-4)

A focused study of current issues in the field of education. Topics may vary. May be repeated for credit. **Prerequisite:** Instructor's permission.

ENGINEERING (EG)

EG 105. Engineering Graphics (2)

An introductory course in engineering drawing using freehand and CAD techniques. Content includes pictorial and orthographic projection, auxiliary and section views, descriptive geometry, dimensioning, and measurements. **Prerequisite:** High school algebra and geometry.

EG 202. Introduction to Physics and Engineering (3)

An introduction to physics and engineering disciplines and careers. Topics include techniques for analyzing and solving problems, engineering graphics, software in engineering and science, and professional ethics. Guest lectures from area engineers and physicists will be given to the student for a feel of what is expected in the work force. May include field trips and/or projects. (See PH 202.)

EG 344. Engineering Statics (3)

Addition and resolution of forces, vector algebra, moments and couples, centroids and moments of inertia, free body diagrams, two-and three-dimensional equilibrium systems, trusses, frames, friction, and virtual work. **Prerequisite:** PH 211; **Pre/Co-requisite:** MA 353. Offered alternate years.

EG 361. AC and DC Circuit Theory with Laboratory (4)

A comprehensive analysis of both steady state and time dependent electrical circuits. Techniques for simplifying complicated circuits using the principle of superposition and the theorems of Thevenin and Norton are introduced and numerous problems are solved using these methods. Applications to circuits are made using Fourier series, Fourier transforms and Laplace transforms. Discrete component behavior in electrical circuits is studied in the laboratory. **Prerequisites:** PH 212, MA 354. Offered alternate years.

EG 362. Analog Electronics with Laboratory (4)

A study of solid-state diodes, transistors, silicon-controlled rectifiers, light emitting diodes, photodiodes and other pn junction devices. Theory and applications of transistors to basic amplifier circuits, waveform generators and operational amplifiers are made. The laboratory allows the student to investigate the behavior of both two and three terminal devices in electronic circuits. **Prerequisite:** EG 361. Offered alternate years.

EG 363. Digital Electronics with Laboratory (4)

Basic logic gates and digital logic circuits are analyzed using Boolean algebra and Karnaugh maps. Circuits studied include binary counters, adders, shift registers, multiplexers and data latches. Analog to digital and digital to analog conversion concepts are introduced and applied to microcomputer interfacing. In the laboratory the student is required to build digital combinatorial and sequential circuits and observe their behavior with an oscilloscope or other readout device. **Prerequisite:** EG 362. Offered alternate years.

ENGLISH (EN)**EN 102. English Composition (3)**

A course intended to develop in students college-level writing skills and stimulate them to think critically, express themselves clearly, and develop an appreciation for the medium of language through a variety of writing experiences. For the course to count for General Education requirements, a student must earn a grade of C- or better. Offered each semester.

EN 202. Research Writing and Critical Thinking (3)

A course which enables students to sharpen analytical reading skills and, through the medium of research projects, to continue to refine the critical thinking and writing skills developed in English Composition. It acquaints students with current information technology and library resources available at NNU and covers the entire process of researching and writing position papers. **Prerequisite:** completion of EN 102 with a grade of C- or better; or, advanced placement. Offered each semester.

EN 212. English Grammar and Usage (2)

A systematic review of the principles and practice of traditional English grammar and usage conventions. An introduction to morphology and phonology is provided. Usually offered twice a year.

EN 221, 222. American Literature (4 each)

A survey of American writing from the colonial period through the twentieth century, emphasizing the development of American literary aesthetics, forms, and ideas. One course offered each semester.

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EN 221. American Literature: Colonial Period to the Civil War

EN 222. American Literature: Civil War to the Present

EN 231, 232. British Literature (4 each)

A survey of British literature from the Anglo-Saxon period through the Renaissance, Restoration, Romantic, and Victorian periods to the present time. One course offered each semester.

EN 231. British Literature: Beowulf through the Age of Reason

EN 232. British Literature: The Romantic Age to the Present

EN 241. Major Literature of the Western World (3)

An introductory study of major literary works drawn from the European, British, and American traditions. Special emphasis is placed on literary appreciation. Offered yearly.

EN 242, 243. World Literature (4 each)

A survey of selected literature from a variety of world cultures. One course offered each year.

EN 242. World Literature: the Ancient World to the Renaissance

EN 243. World Literature: the Enlightenment to the Modern Era

EN 261. Introduction to Journalism (3)

An introductory course, offering a survey of the print media and practice in journalistic writing. Some emphasis on career opportunities. **Prerequisite:** EN 102; or, advanced placement. Offered yearly.

EN 298. Introduction to the Study of Literature (1)

An introduction to basic approaches to literature study. Although open to all students, it is designed to serve as a cohesive agent for the major program. It is required of all majors in the English department. Recommended for the sophomore year.

Prerequisite: 3 credits in literature. Offered yearly.

EN 302. Principles of Writing (3)

An advanced expository writing course emphasizing the thinking and writing skills necessary to develop an effective prose style. A general course appropriate for advanced students in any area, it is especially recommended for potential graduate students.

Prerequisite: EN 202. Offered yearly.

EN 304. Creative Writing — Prose (3)

Principles, techniques, and practice in writing both fiction and non-fiction. Small-group work and individual conferences are included. Offered alternate years.

EN 305. Creative Writing — Poetry (3)

Principles, techniques, and practice in writing poems. Emphasis on individual writing and small-group activities. Offered alternate years.

EN 312. Linguistics: Structure of English (3)

An investigation of both traditional and transformational descriptions of English with special attention to the contribution of structural linguistics to modern understanding of the operation of language. Offered alternate years.

EN 321. Major Authors in American Literature (3)

A study of selected works of a major American author or authors. May be repeated for credit. Offered yearly.

EN 325, 326. The American Novel (3 each)

A study of the development of the American novel through reading and discussing important novels of each period. Courses alternate yearly.

EN 325. The American Novel: Inception to 1910

EN 326. The American Novel: 1910 to the Present

EN 331. Major Authors in British Literature (3)

A study of selected works of a major British author or authors. May be repeated for credit. Offered alternate years.

EN 332. Shakespeare (3)

A study of representative plays through reading, viewing, and discussing comedies, tragedies, and histories. Offered yearly.

EN 335, 336. The British Novel (3 each)

A study of the development of the British novel through reading and discussing important novels of each period. Courses alternate yearly.

EN 335. The British Novel: Beginning through Dickens

EN 336. The British Novel: Hardy to the Present

EN 341. Greek and Roman Classics (3)

A study of The Iliad, The Odyssey, Greek drama, The Aeneid, and other ancient Greek and Roman works. Offered alternate years.

EN 342. Foreign Literature in Translation (3)

Major works of a foreign country or other geographic area (such as Scandinavia or South America) will be studied in English translation. May be repeated for credit. Offered alternate years.

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EN 343. Modern European Literature (3)

A study of significant twentieth century European writers. Consideration is given to the literary, political, social, and religious environment of these authors as expressed in their works. Offered alternate years.

EN 351. Twentieth Century Poetry (3)

A study of representative British and American poetry of the twentieth century. Offered alternate years.

EN 352. Twentieth Century Drama (3)

A study of representative European, British, and American drama from Ibsen to Ionesco. Offered alternate years.

EN 353. The Bible as Literature (3)

A study of the literary qualities of the English Bible. Offered alternate years.

EN 354. Mythology (2)

A study of the nature and creation of myth, an investigation of Greek and Roman mythology, and the manifestation of those myths in subsequent literature. Offered alternate years.

EN 374. Children's Literature (3)

A study of literature written for children, from pre-school age onward. The course samples a variety of types of literature and will prove valuable for general students, prospective teachers, or parents who wish to enrich their own background in children's literature and to develop qualitative judgment skills. Usually offered each semester.

EN 379. Teaching Language Arts and the Writing Process in the Secondary School (3)

A study of secondary English language arts teaching strategies, instructional materials and tools, and curricular structure. The course includes recent theory and practice in the teaching of writing with an emphasis on process. Teaching experience is included.

Prerequisites: Approval of Level II Screening Committee; junior classification. **Co-requisite:** ED 351. Offered yearly. (See ED 359.)

EN 391. Literary Criticism (3)

The study and application of representative literary criticisms from Plato to the present. It is required of English majors and recommended for the junior year. **Prerequisite:** 9 credits in literature. Offered yearly.

EN 394. Topics in English (1-3)

Specialized study of a topic, genre, or author. May be repeated for credit. **Prerequisite:** 6 credits in literature.

EN 396. Internship in Professional Writing (3)

Students will work at least 100 hours in a professional writing situation, such as a newspaper, on a schedule convenient to the needs of the business or office and the students' own course work. The writing situation will be selected in consultation with the English Department Chair. Students will have opportunity to observe and participate in all facets of the business. A supervisor in the business situation will agree to serve as editor, instructor, and supervisor, and be approved by the English Department Chair. Credit and grade will depend upon the completion of the hours in a dependable, professional manner as verified from the supervisor to the professor.

EN 397. Junior-Senior Project (1)

An individualized project required of English and English-Education majors in which the junior-senior project or thesis is identified, an advisor is selected, standards in literary research are reviewed, and the project proposal is adopted. Limited to English and English-Education majors. To be taken in the junior year. Offered yearly.

EN 412. Linguistics: Theory and History (2)

A study of the theory of language and its development, with special attention to the history of the English language from the early backgrounds to Old English to modern American English. Offered alternate years.

EN 427. Minority Voices in American Literature (3)

A course studying the literature of American cultural minorities. Course content may be either multi-cultural or monocultural. May be repeated for credit as content varies. Usually offered each semester.

EN 432. Chaucer and His Age (3)

A study of Chaucer's poetry, language, and intellectual background with attention given to the changing English language. The course includes selected works of other Medieval writers. Offered alternate years.

EN 433. Milton and His Age (3)

A study of Milton, Donne, and other late Renaissance writers. Offered alternate years.

EN 434. Major Romantics and Victorians (3)

Readings in British Romantic and Victorian poetry and prose. The course focuses upon the rapidly changing art and ideas through these periods. Offered alternate years.

EN 475. Literature for the Secondary School (3)

A study of the literature appropriate for secondary school language arts classes, including criteria for the selection of and strategies for teaching the literature. Offered yearly.

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EN 498. Senior Seminar (1)

A review of the English program and a commencement of a lifetime of independent reading and thinking. The course culminates with the completion and presentation of the senior project. Required of all majors in the English department. **Prerequisite:** EN 398. Offered yearly.

STEP PROGRAM

EN 203. Research Writing (3)

A course which acquaints students with information technology and library resources available at NNU and emphasizes the process of research and writing position papers. **Prerequisites:** Admission to the STEP Program and completion of EN 102 with a grade of C- or better (or advanced placement). **Note:** This course is available only to students in the STEP Program.

EN 324. Studies in American Literature (3)

A study of selected works by American authors which may focus on an individual author, a topic, or a time period. May be repeated for credit as content changes. **Prerequisite:** Admission to the STEP Program. **Note:** This course is available only to students in the STEP Program.

EN 334. Studies in British Literature (3)

A study of selected works by British authors which may focus on an individual author, a topic, or a time period. May be repeated for credit as content changes. **Prerequisite:** Admission to the STEP Program. **Note:** This course is available only to students in the STEP Program.

EN 344. Studies in World Literature (3)

A study of selected works by non-American or non-British authors which may focus on an individual author, a topic, or a time period. May be repeated for credit as content changes. **Prerequisite:** Admission to the STEP Program. **Note:** This course is available only to students in the STEP Program.

FRENCH (FR)

FR 101, 102. Elementary French (4 each)

For students who have less than two years of high school French. These courses are designed to be taken in sequence. Objective: to help students acquire an active command of the four basic communication skills (speaking, oral comprehension, writing, reading) in French as well as an awareness of how French language and culture are intimately intertwined.

FR 201, 202. Intermediate French (4 each)

For students who have had at least two years of high school French or one year of college French. This sequence is designed to reactivate and further develop communication skills in French and to enhance cultural awareness of French-speaking cultures and literature. **Prerequisites:** FR 101, 102; or, equivalent.

FR 301. Advanced Conversational French (3)

For students who have taken 200 level courses or the equivalent. This course provides students with the opportunity to analyze and discuss various aspects of contemporary French culture through the study of realia taken from the French press, television and cinema. **Prerequisite:** FR 201; or, instructor's permission. Offered alternate years.

FR 333. The European Union (3)

A multi-disciplinary course designed to introduce students to the 15-member European Union, the world's second largest trade group and our major trading partner. This course presents discussion of the ramifications of the recently implemented economic and monetary union and its effect on world trade, social and political cohesion among EU members, a common defense policy, and eastward expansion of the EU. Course taught in English. Offered alternate years.

FR 351. French Civilization and Literature (4)

A study of the high points of French literature over the ages and their historical and social backdrop. Authors studied include the following: Rabelais, Montaigne, Racine, Voltaire, Rousseau, the Romantic poetics, Hugo, Flaubert, Proust, and Camus. A variety of genres will be examined and discussed. Course taught in French. Offered alternate years. **Prerequisite:** FR 201; or, instructor's permission.

FR 362. French Cinema (3)

A study of French cinema in its globality since the WWII period. Films will be viewed by genres and by themes. Each film will be studied and discussed stylistically to determine how it mirrors French culture and society and/or a specific movement. Course taught in English. Offered alternate years.

FR 394. Special Topics in French (1-4)

The course may comprise 1) various studies of topics related to the French language and Francophone cultures; or, 2) a multi-disciplinary study of the European Union. The courses may either be taught in English or French. May be repeated as content varies.

GEOGRAPHY (GE)

GE 105. Introduction to Geography (4)

An introduction to the basic concepts, principles and themes in the discipline of geography. The course also includes an investigation into the unique characteristics of

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the world's twelve major geographic realms. Special emphasis will be placed on the influence of geography on social, political, environmental, and economic aspects of human development.

GREEK (NEW TESTAMENT) (GK)

GK 101. Introduction to New Testament Greek (1)

A basic introduction to the language of the New Testament. Students will learn the alphabet, pronunciation, and some of the vocabulary, morphology, and grammar of Koine Greek. They will gain practice in the use of exegetical tools that presume some knowledge of Greek—computer software, concordances, lexicons, word studies, commentaries, etc. **Pre-or Co-requisite:** BL 111.

GK 111, 112. Elementary New Testament Greek (4 each)

A study of the basic elements of New Testament Greek. Grammar, vocabulary, and syntax will be emphasized. Course will include selected readings in the Greek New Testament. **Prerequisite:** GK 101; or, instructor's permission.

GK 201. Intermediate New Testament Greek (3)

A vocabulary review, an introduction to advanced grammar and exegetical principles and methods, and a broad reading of selected New Testament passages. **Prerequisite:** GK 112.

GK 352. New Testament Greek Exegesis (2)

An advanced study of the Greek New Testament. The course will focus on advanced grammar, application of exegetical principles and methods, and utilization of the major scholarly resources for Greek exegesis, applied to selected New Testament books. May be repeated for credit. **Prerequisite:** GK 201. (See BL 352.)

HEBREW (HB)

HB 101. Introduction to Biblical Hebrew (1)

An introduction to the language of the Old Testament. Students will learn the Hebrew alphabet, pronunciation, a simple vocabulary, and the grammatical structure of the language. Students will be able to identify Hebrew words and determine their meaning from lexicons, commentaries, and word study resources. **Pre- or Co-requisite:** BL 111.

HB 301. Biblical Hebrew Grammar and Readings (5)

A study of the basic elements of Biblical Hebrew. Grammar, vocabulary, and syntax will be emphasized. Course will include selected readings in Biblical Hebrew prose. Prior foreign language experience recommended. **Prerequisite:** HB 101; or, instructor's permission. (See BL 341.)

HISTORY (HS)

HS 101. World Civilization, The Classical Era (4)

A survey of world history from the origins of world civilizations through the sixteenth century. Themes include the earliest origins of human civilizations in the Middle East and China, classical world religions, the Greek and Roman empires, classical India, the ancient Americas, the Mediterranean World, barbarian invasions, medieval Europe and Asia, the Renaissance and Reformation.

HS 102. World Civilization, The Modern Era (4)

A survey of world history from the sixteenth century to the present. Themes include the religious wars of the sixteenth century, European discovery of the New World, early modern China and Japan, Europe's Old Regime and Enlightenment, world reactions to Europe's expansion, political and industrial revolutions, imperialism and decolonization, world wars, contemporary thought and culture.

HS 394. Topics in History (2-4)

A thematic approach to historical interpretation, may be conducted in a seminar format. Topics will vary. May be repeated for credit. **Prerequisite:** Instructor's permission.

HS 497. Senior Thesis (4)

An independent research paper based upon primary source materials. Written under the supervision of the history faculty. Required of all history majors. **Prerequisite:** Senior standing.

HS 498. Colloquium in History (4)

A capstone history course, discussion-centered and based upon extensive readings on a specific theme or time frame. May be repeated for credit. Offered alternate years. **Prerequisite:** Instructor's permission.

AMERICAN HISTORY

HS 203. History of the United States to 1865 (4)

An introduction to American history from the period of exploration and colonization to the conclusion of the Civil War. Major themes and events include the European settlement of North America, Native American responses to European development of colonial America, the war for American Independence, nation-building in the Early Republic, the development of slavery, western expansion and the Civil War.

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HS 204. History of the United States since 1865 (4)

An introduction to American history from the conclusion of the Civil War to recent times. Major themes include reconstruction, industrialization and urbanization, imperialism, two world wars, consumerism, radicalism and revolt and the post-Cold War world.

HS 331. The Era of the American Revolution 1750-1800 (2)

An in-depth study of the origins, progress and consequences of the American Revolution. Focusing on the years 1750-1800, consideration will be given to such problems as imperial administration, the Revolutionary War, the Confederation period, the writing and ratification of the Constitution and the Federalist administrations. Offered alternate years.

HS 332. The New Nation, 1800–1850 (2)

An examination of the development of the newly formed United States with particular attention paid to party conflict, social, cultural and economic growth and the competing themes of nationalism and sectionalism. Offered alternative years.

HS 333. U. S. Foreign Policy (4)

An in-depth examination of the factors influencing the U.S. as a participant in the international system, especially from the end of World War II to the present. Topics include U.S. foreign policy and ideology, domestic politics and interest groups, public opinion and the media, and historical events considered chronologically. (See PS 333.) Offered alternate years.

HS 335. The Civil War and Reconstruction (4)

An in-depth exploration of this country's greatest trial—the Civil War. The course will begin with a study of the manifestations of sectionalism, circa 1848, and the road to war, followed by an extended study of the military, social, political and economic aspects of the war and, finally, an examination of Reconstruction. Offered alternate years.

HS 339. Recent America (4)

An in-depth exploration of modern America from 1945 to the present emphasizing the political, economic, diplomatic and social aspects of the period. The course will investigate the origins of the Cold War, McCarthyism, increasing presidential power, the U.S. and the Third World, the civil rights struggle, women's movement, student revolts, Vietnam, Watergate, and the New Right and post-Cold War America. Offered alternate years.

HS 340. The Pacific Northwest (2)

A survey of the Pacific Northwest (Idaho, Oregon and Washington). Major themes include Indian-white encounters, the formation of frontier communities, land policy

and resource use, the impact of national movements and developments in the twentieth century and the West in the American imagination. Offered alternate years.

HS 344. History of Christianity in America (4)

A study of American Christianity from the colonial period to the present. The course will focus on the varieties of the religious experience in historical context. Included will be such themes as Puritanism, The Great Awakenings, Christian Utopias, the Social Gospel, Fundamentalism and liberation theology. Emphasis will be placed on the mutual influence of religion and American culture. (See CH 344.) Offered alternate years.

HS 433. History of American Culture (4)

An examination of the main currents of American thought and culture, emphasizing ideas and concepts that have influenced the development and growth of American institutions and values from the colonial era to the present. General themes include language, literature, fine arts, cinema, sports, recreation and leisure. Offered alternate years.

EUROPEAN HISTORY

HS 303. Roman Empire and Christian Community (2)

An exploration of the parallel development of two quite different “worlds,” the imperial system inaugurated by Caesar Augustus and the community brought by Jesus Christ. With political history as framework, social and economic history is emphasized, especially with regard to women and public compassion. Offered alternate years.

HS 304. “Not the Dark Ages” (2)

A celebration of those who preserved worship, literature and community in most unsettled times, from 500 to 1100 AD. Dynamic centers of energy belie the term Dark Ages: great families of monks, the Anglo-Celtic communities, Islamic cities and schools in Spain and emperors like Charlemagne and Otto the Great. Offered alternate years.

HS 308. Monks, Knights and Merchants (2)

A vigorous survey of the remarkable flourishing of the later Middle Ages, which lays foundations for the modern world. Highlights would include the rise of the great universities, growing interest in science and nature, revival of manufacturing and new energetic trade networks, great spiritual women, and the development of urban leaders who begin to balance the nobility in governments. Offered alternate years.

HS 310. The World of Caesar (2)

A presentation of the development of the Roman Republic to its demise in the time of Julius Caesar. Theses include the Republic as a unique alternative to monarchy, its variety of families and the Roman life of honor, its wars against Greek and Phoenician

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colonies, and its struggle to maintain its tradition after acquiring an empire. Offered alternate years.

HS 345. Early Modern Europe (1400-1800) (4)

An in-depth exploration of European intellectual, cultural and religious change during the Renaissance and Reformation periods, the Age of Exploration, scientific discovery, Old Regime and Enlightenment Europe to the French Revolution. Offered alternate years.

HS 348. Modern Europe (1800-Present) (4)

An in-depth exploration of Europe from the political and industrial revolutions of the 18th and 19th centuries, 19th century “isms” (Romanticism, liberalism, socialism, nationalism, imperialism), world wars, through contemporary European society and culture. Offered alternate years.

HS 391. Gender and Culture in Early Modern Europe (2)

An exploration of female and male identities in early modern Europe, 1400–1800. Topics include Renaissance court life, the Reformation and families, gender and early modern science, and gender roles in salon culture. **Prerequisite:** Instructor’s permission. Offered alternate years.

HS 392. Gender and Culture in Modern Europe (2)

An exploration of the “social relations between the sexes” of 19th and 20th century Europe: Victorian life, health and science, suffrage, military, economic and reproductive rights. This course explores how men and women of different periods understood masculinity and femininity. **Prerequisite:** Instructor’s permission. Offered alternate years.

HONORS (HU)

HU 250, 251, 252, 253. Western Intellectual Traditions (Freshman Honors) (2 each)

The four courses (2 quads each semester) focus on the following historical periods: Greek, Roman, and early Christian; Renaissance and Reformation; Enlightenment; and Modern. The structure and content of the courses are designed to help students achieve the following goals: recognize the connectedness of ideas and the unity of knowledge; examine values and presuppositions and learn to think creatively and critically; understand important themes and periods of Western thinking, and explore non-Western ideas, comparing them to Western thought; take an historical perspective when addressing current issues; improve written and oral communication; and acquire leadership skills in discussions with peers. **(Admission by selection only)**

KINESIOLOGY (KI)

Instructional Activities

KI 100. Fundamentals of Wellness (1)

An approach to health and physical education relating the value of physical activity to the human body. The content of the course will be presented by utilizing lecture and laboratory sessions. The course emphasized the “holistic” wellness approach to the individual regarding the five dimensions of wellness. Lecture and laboratory.

KI 101. Adapted Physical Education (1)

This course offers students who have physical deficiencies an opportunity to correct and overcome them as well as a chance to learn skills and recreational activities which are adapted to their particular conditions. Emphasis is given to individual guidance and healthy attitude development through this course. **Prerequisite:** Permission of the department chair.

KI 102. Heart Healthy Activities (1)

Wellness activities of adult fitness, aerobic fitness, cycling, life guarding, physical fitness, rhythmical aerobics, skiing and derivatives offered, swimming (intermediate), jogging/walking, water aerobics, weight control management, and water fitness. Two activities per semester. May be repeated for elective credit but not for general education credit.

KI 103. Lifetime Sport Activities (1)

Introductory skill, rules and play: archery, backpacking, badminton, bowling, golf, racquetball, rock climbing, soccer, softball, swimming (beginning), tennis, weight training, and volleyball (beginning and intermediate). Two activities per semester. May be repeated for elective credit but not for general education credit.

KI 124. Life Guarding (1)

Qualifies students for a life guarding certificate. **Prerequisite:** Instructor's permission.

KI 224. Water Safety Instruction (1)

Introduction to aquatic facilities management and methods of teaching swimming skills and water safety practices. Students will be issued certification as an Instructor of Water Safety on successful completion of this course. **Prerequisites:** Intermediate level swimmer and instructor's permission.

KI 250. Fitness Activities (1)

A practical application of military style fitness adapted for any students who wish to improve their overall physical fitness level. Emphasis is on cardiovascular and upper body development. May be counted as one KI heart healthy activity. May be repeated for up to 12 credits. (See MS 250.)

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KI 264. Kinesiology Majors Activity Laboratory (1)

Sports activity laboratory for majors in the department of Kinesiology; emphasis is on sports skills, development and teaching techniques. Different activities covered: soccer, football, aerobic fitness, badminton-racquetball, fitness testing, fitness prescription, movement-rhythms, softball, volleyball, track and field, basketball, weight training, archery, golf and tennis. Majors will take 8 credits; counts for KI General Ed requirement.. **Prerequisites:** Majors only; Instructor's permission.

KI 276. Intercollegiate Athletic Participation (1)

Participation in intercollegiate athletics. May be taken by athletes, managers, athletic trainers, statisticians, and cheerleaders. May be repeated for a maximum of eight credits: one credit per sport per year and a maximum of two credits per year. This course does not satisfy a general education requirement. **Prerequisite:** Permission of the Coach and Athletic Director.

Theory Courses

KI 131. Introduction to Recreation and Kinesiology (3)

An introductory course for majors in the field of health, kinesiology, athletic training and kinesiology. Emphasis is placed on history, objectives, philosophy and careers within the profession.

KI 141. First Aid/CPR (1)

Study of the prevention and immediate care of accidents and first aid procedures. Provides opportunity to certify for the American Red Cross Standard card.

KI 196. Clinical Observation (1)

A field-based observational experience which enhances first hand practical knowledge in either a physical therapy or athletic training setting. This course may be repeated for credit. **Prerequisite:** Instructor's permission. (See BI 196.)

KI 241. Introduction to Athletic Training and Physical Therapy with Laboratory (3)

An introductory course for students interested in athletic training or physical therapy. Emphasis of programs on basic anatomy and exposure to career opportunities. Laboratory will coincide with lecture about joint structure, evaluation, taping and support techniques.

KI 243. Health Issues in Today's Society (3)

Emphasis is on major health issues and problems of adolescence and college age students including the following topics: drugs, alcohol and tobacco, human sexuality,

AIDS/HIV, STD's, mental health, consumer health, sex and family planning, diseases, environmental health. Offered alternate years.

KI 273. Human Nutrition (3)

A basic course surveying the nutrients required by the human body including their assimilation, function, deficiency and food sources. Study of proper dietary intake throughout the life cycle, emphasizing importance of nutrition to good health. Cultural acceptance, socio-economic needs and aesthetic factors and their impact on food selection and nutritional adequacy is also highlighted.

KI 275. Outdoor Pursuits (1)

Fundamental skills and instructional techniques for outdoor educational activities. Also includes outdoor equipment use and safety emphases. Fulfills one general education lifetime sport activity requirement. May be repeated for credit. **Prerequisite:** Instructor's permission.

KI 285. Camp Administration and Outdoor Education (3)

An introduction to the philosophy, methods and skills necessary for outdoor leaders, along with instruction techniques in outdoor equipment use and safety emphasis. Experiences are provided in various outdoor educational settings.

KI 294. Topics in Kinesiology (1-4)

A course designed for those planning to enter the field of health, kinesiology, athletic training and recreation. Current issues will be addressed in health, physical education and recreation that have not been covered in other courses. May be repeated for credit.

KI 296. Field Experience in Kinesiology (1)

Designed to provide an introductory experience as a leader in various health, kinesiology and recreational settings. May be repeated for credit in a different setting. Kinesiology and health second teaching fields and recreation major require one credit in KI 296 as a lab assistant for the wellness laboratory. **Prerequisite:** Instructor's permission.

KI 332. Teaching Health in the Elementary Schools (1-2)

This course will serve as an introduction to health education and will acquaint the teacher with contemporary concepts for teaching health in the elementary school. Emphasis will be on learning and identifying health needs in the elementary school population. **Prerequisites:** ED 211, ED 296. (See ED 337.)

KI 334. Teaching Physical Education in the Elementary Schools (2)

A survey of the aims and objectives of physical education in the elementary school. Motor development in age appropriate fitness and sports skills activities will be

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introduced. **Prerequisites:** ED 211, ED 296. Instructor's permission if not a Kinesiology or Health major. (See ED 338.)

KI 344. Advanced Athletic Training (3)

A study of the advanced theory in the technique of athletic training necessary for the professional athletic trainer. Recognition and understanding of identification, care and rehabilitation of specific injuries. Particular emphasis is placed upon the proper use of various therapeutic modalities. Offered alternate years. **Prerequisites:** KI 141, 241, 362.

KI 352. Teaching Physical Education in the Secondary Schools (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experiences are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See ED 336.)

KI 354. Teaching Health in the Secondary Schools (2)

Designed to provide knowledge and background in three divisions of health education: healthful living, school health services, and health education. Recognition of health problems of children and adolescents with opportunity to develop competencies in handling methods and teaching techniques. Strategies appropriate to this subject field, instructional materials and tools, curricular structures common to this subject in the secondary school. Micro-teaching and other simulated experiences are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. Offered alternate years. (See ED 335.)

KI 356. Psychology and Techniques of Coaching (3)

A study of psychological implications in dealing with the student athlete in areas of motivation and performance. Coaching techniques in various sports will be covered as well as mentor experiences.

KI 360. Motor Development and Motor Learning (2)

Movement education in the areas of motor behavior, motor development and learning theories are emphasized. Movement patterns throughout the various life spans are studied. Psycho-motor and perceptual-motor development are covered in the course.

KI 361. Physiology of Exercise (3)

An analysis of the effects of exercise and training on the various systems of the body and how this influences performance, body weight and muscular efficiency. **Prerequisite:** 8 credits in Human Anatomy and Physiology; or, instructor's permission.

KI 362. Biomechanics and Structural Anatomy (3)

Principles of human motion and action of muscles involved in fundamental movement and athletics. **Prerequisite:** 8 credits in Human Anatomy and Physiology; or instructor's permission.

KI 363. Corrective and Adaptive Physical Education (2)

A course designed to develop understanding of the special needs child. Opportunity for learning to recognize defects, limitations, capacities and problems is provided. Students are taught to develop individual educational programs.

KI 385. Planning and Facilities Management (3)

Development of skills and techniques necessary for successful leadership in city, community, and school recreational programs. Offered alternate years.

KI 396. Field Experience in Kinesiology/Recreation (1)

Designed to provide an advanced experience as a leader in various health, kinesiology and recreational settings. **Prerequisite:** Instructor's permission.

KI 452. Tests and Measurements in Physical Education (3)

The use of tests, measurement and evaluation in physical education classes, teacher and program evaluations, selection, administration, construction and evaluation of skill and written examinations are emphasized. Offered alternate years.

KI 456. Administration and Supervision of HPERA (3)

The course is designed to serve as an introduction to the techniques of administration and supervision in kinesiology and athletics, as well as the capstone experience for majors. Emphasis is given to leadership theory, principles of sport training, current issues, and preparation for entry level employment.

KI 485. Recreation and Sport Management (2)

The development of community recreation programs: including trends, problems and interrelationships of the various community agencies offering recreation programs. Offered alternate years.

KI 494. Special Topics in Kinesiology (1-4)

Topics relating to Health, Physical Education, Athletic Training, or Recreation not ordinarily covered in other courses. May be repeated for credit.

KI 495. Internship in Athletic Training (1)

Practical application of training technique theory in a variety of settings. Training skills and principles may be applied to achieve the established goal of prevention and care of athletic injuries. May be repeated up to 3 credits. **Prerequisite:** Permission of the department chair.

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KI 496abcd. Recreation and Sport Internship (3 each)

Practical experience in planning, leading, supervising and evaluating recreation programs while working in a specific situation under qualified personnel. **Prerequisite:** Permission of the Department Chair.

MATHEMATICS (MA)

MA 090. Essential Mathematics (3)

Whole numbers, fractions and mixed numbers, decimals, ratio, proportion, percent, measurement, geometry, introduction of Algebra, solving equations, and statistics. This is a Pass/Fail course.

MA 095. Intermediate Algebra (3)

Linear equations and inequalities, graphing lines, systems of equations, exponents, polynomials, factoring, radicals, complex numbers, and the quadratic formula
Prerequisites: Pass MA 090, or Compass Exam score of at least 50 on the Pre-Algebra section, or an ACT score of at least 19. Students must verify they have met the prerequisites on the first day of class. This is a Pass/Fail course.

Credit for courses numbered below 100 is not transferable. These courses are designed to prepare the student to become math proficient.

MA 101. Fundamental Mathematical Structures I (3)

Includes problem solving and mathematical reasoning, sets, relations and functions, numeration, the system of whole numbers, integers and rational numbers, and number theory. Laboratory activities are included.

Prerequisites: High school algebra, and enrollment in a program leading to an elementary or secondary teaching certificate.

MA 102. Fundamental Mathematical Structures II (3)

Includes probability and statistics, basic geometric concepts and measurement, constructions, congruence, similarity and transformations. Laboratory activities are included. **Prerequisite:** MA 101; or, instructor's permission.

MA 110. Liberal Arts Mathematics (3)

A course designed for an introduction to mathematical concepts. This may include such concepts as sets, logic, functions and graphs, mathematical models, and history.
Prerequisite: a year of high-school mathematics.

MA 130. College Algebra (3)

Topics include polynomial arithmetic, synthetic division, zeroes of polynomials, systems of linear equations, matrices and matrix multiplication. **Prerequisite:** ACT

score of 23 or instructor's permission. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 140. Trigonometry (3)

Topics include the study of the trigonometric functions, plane trigonometry, and analytic trigonometry. **Prerequisites:** MA 130, a grade of C or better, or an ACT score of 23, or instructor's permission. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 151. Survey of Calculus (3)

The concepts of calculus are emphasized. All concepts are considered from the intuitive point of view. Applications are drawn primarily from business, economics and population models. Trigonometric functions are not considered. **Prerequisites:** MA 130, a grade of C or better, or an ACT score of 26, or instructor's permission. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 224. Elementary Statistics (3)

Introduction to statistical terminology and basic concepts, including common uses and misuses of statistics. Topics include experimental design, sampling, descriptive statistics, correlation and regression, probability, and tests of significance. **Prerequisites:** High school algebra. ACT score of 23, or a grade of C or better in MA 130. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 231. Discrete Mathematics (3)

An introduction to graph theory, logical operators, mathematical induction, enumeration and Boolean algebra. **Prerequisites:** MA 130 a grade of C or better; or, two years of high school algebra and one year of geometry. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 251, 252. Calculus I, II (4 each)

MA 251: limits, derivatives, integration and applications of the derivative, applications of integrals .

MA 252: logarithmic, exponential, trig and inverse trig functions and infinite series, vectors, partial differentiation, multiple integrals. **Prerequisite for MA 251:** MA 140 a grade of C or better, or an ACT score of 28, or instructor's permission. **Note:** Students need to verify they have the prerequisites the first day of class. **Prerequisite for MA 252:** MA 251 a grade of C or better.

Note: Students need to verify they have the prerequisites the first day of class.

MA 301. Teaching Mathematics in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other

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simulated experience are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See ED 357.)

MA 310. History of Mathematics (1)

A study of the emergence of numeration methods, the invention of new mathematical systems, the development of geometry, algebra, calculus and related concepts, and the life stories of some of the persons involved. May be repeated for credit. **Prerequisite:** MA 251.

MA 324, 325. Probability and Statistics I, II (3 each)

Study of combinatorial analysis, probability, random variables and their distributions, estimation, statistical inference, regression and correlation, and analysis of variance. **Prerequisite:** MA 252 a grade of C or better. Offered alternate years. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 328. Modeling and Operations Research (3)

A survey of fundamental operations research techniques. Emphasis is given to the linear programming model. Other topics will be chosen from network models, decision analysis, queuing theory and dynamic programming. **Prerequisite:** MA 130; or, MA 332. Offered alternate years.

MA 331. Introduction to Abstract Mathematics (3)

Logic, mathematical induction, sets, equivalence relations and equivalence classes and order relations are studied. Emphasis is given to constructing sound mathematical arguments. **Prerequisite:** MA 231 or 251; or, instructor's permission.

MA 332. Linear Algebra (3)

A study of vector spaces, linear transformations, matrices, determinants and system of equations. Special attention is given to the connection between linear transformations and matrices. **Prerequisite:** MA 130 or 251. Offered alternate years.

MA 341. Modern Geometry (3)

A review of Euclidean Geometry is followed by wider view of geometry. Topics may include hyperbolic geometry, finite geometries and other metric geometries other than Euclidean. **Prerequisite:** MA 140 or 251; or, instructor's permission. Offered alternate years.

MA 353. Calculus III (3)

A study of Euclidean space and the calculus of functions on this space. In particular vector fields with the operators curl and divergence. Also the integral calculus involving line and surface integrals. Green's Theorem, Stokes Theorem and Gauss' Theorem are further topics to be studied. **Prerequisite:** MA 252 a grade of C or better. **Note:** Students need to verify they have the prerequisites the first day of class.

MA 354. Differential Equations (4)

A first course in ordinary differential equations. Linear algebra will be introduced for systems of linear differential equations. **Prerequisite:** MA 252 a grade of C or better.

Note: Students need to verify they have the prerequisites the first day of class.

MA 356. Numerical Analysis (3)

Numerical solution of algebraic and transcendental equations and systems of linear equations; interpolation, finite differences; numerical differentiation and integration and solution of differential equations. Emphasis on methods most adaptable for computer use. **Prerequisites:** MA 252. Recommended: MA 354 and a programming language.

MA 394. Topics in Mathematics (1-4)

Intensive study of one topic. May be repeated for credit. **Prerequisite:** Instructor's permission.

MA 397. Introduction to Senior Project (1)

Staff presentation of possible topics for the senior seminar. Discussion of the style of the written paper and oral presentation required in senior seminar. Methods of collecting background information will be presented. Attendance at senior seminar presentations is required. A project proposal will be submitted and approved. **Prerequisites:** Instructor's permission; junior standing.

MA 432, 433. Modern Algebra (4, 2)

The similarities between the algebraic structures arising in the study of number systems, modular arithmetic and polynomial operations will be used to introduce the study of groups, rings, fields, and their mapping. These structures will be applied to number theoretic and geometric problems. Topics in MA 433 will include permutation groups, quotient structures, and finite fields and their applications.

Prerequisite for 432: MA 332; or, 331; or, instructor's permission. Offered alternate years

Prerequisite for 433: MA 432. Offered alternate years.

MA 451, 452. Introduction to Real Analysis (4, 2)

A two-course sequence in the theory of calculus. Topics include limits, continuity, derivatives, integrals, sequence, series, series of function. An introduction to metric topology is given. **Prerequisites:** MA 252, 331. Offered alternate years.

MA 498. Senior Seminar (1)

Required of and limited to senior students. The seminar involves the written and oral presentation of a research project. (Not required for mathematics-education majors.)

Prerequisite: MA 397. Must be taken at NNU.

MILITARY SCIENCE (MS)

MS 101, 102. Introduction to Military Science (1 credit each)

An introduction to ROTC, military customs and traditions, benefits of Army Service and basic military skills. Laboratory consists of participation in leadership exercises, introduction to land navigation, adventure training, rifle marksmanship, and basic First Aid.

MS 201. Introduction to Leadership (2)

An overview of Military Leadership which prepares students for ROTC advanced courses. Classroom and laboratory instruction includes: leadership, land navigation, adventure training, oral and written communications, responsibilities of Army officers, and other general military subjects. Course is designed to aid future leaders in acquiring effective skills for influencing others, with particular reference to positions of military leadership.

MS 202. Military Leadership (2)

A continuation of learning leadership skills with continuing emphasis on professional development through land navigation, rappelling, first aid, marksmanship, and other military skills. Laboratory consists of progressive participation in leadership exercises, adventure training, and tactical operations.

MS 250. Fitness Activities (1)

A practical application of military style fitness adapted for any students who wish to improve their overall physical fitness level. Emphasis is on cardiovascular and upper body development. May be repeated for up to 12 credits. May be counted as one KI activity. (See KI 250.)

MS 290. Military Science Practicum (6)

A field based introduction to military subjects such as land navigation, map reading, marksmanship, and leadership. Practicum is a five-week Leadership Training course at Fort Knox, Kentucky. This course fulfills MS101, 102, 201, and 202 ROTC program requirements. Students may also earn a two-year scholarship while at this course. The NNU Army ROTC advisor determines enrollment eligibility.

MS 301. Leadership and Management (3)

A study of tactics and skills which increases students' poise and confidence as military trainers and leaders. Students learn the techniques of effective counseling, training and management in a military environment. Laboratory consists of progressive participation in advanced leadership exercises and practical application of basic tactics and patrolling skills. **Prerequisite:** Instructor's permission.

MS 302. Basic Tactics (3)

A continuation of MS 301. Refines the fundamentals of patrolling and combat operations. Prepares students for participation at the National Advanced Leadership camp. Laboratory consists of practical application of basic tactics and patrolling skills.

Prerequisite: Instructor's permission.

MS 390. Military Science Practicum (6)

A field based course which provides students with the opportunity to apply the leadership skills they have learned. Course is completed at the five-week ROTC Advanced Leadership Camp at Fort Lewis, Washington. **Note:** This is required of all contracted students and is usually completed during the summer between the junior and senior years. **Prerequisite:** Instructor's permission.

MS 401, 402. Professional Preparation (3 each)

An investigation of ethics and human relations, counseling techniques, military service in today's society, obligations and responsibilities of an officer on active duty, and coordination and operation of the military team. Students evaluate leadership potential of lower classmen and are responsible for planning and executing laboratory training. Prepares the prospective Army officer for initial Army Assignment. **Prerequisites:** MS 301 and 302.

MS 496. Military Science Internship (1)

A supervised, practical work experience which provides the senior Military Science students the opportunity to apply the skills they have learned through independent study and assisting in the instruction of military science labs or participation in the SMP (simultaneous membership program) in a National Guard or US Army Reserve Troop Program Unit. **Prerequisite:** Instructor's permission.

Scholarships

Two and three year scholarship applications are available through the Military Science Department. Each scholarship recipient can receive up to \$18,000 per year for either 2 or 3 years. These scholarships pay for tuition and associated fees. There is an additional \$500 per year flat rate for books. Students who are recipients will also receive an additional \$300-350 per month (see "Financial Assistance" below). Each student selected for a scholarship must serve in the National Guard, Reserves, or Active Duty as a commissioned officer.

Financial Assistance

Each advanced course student receives an allowance of \$300-350 a month for up to ten months a year for two years. Summer camp pay, in addition to meals, quarters, medical/dental attention, and travel pay is \$760 (approximately). A uniform allowance of \$300 is paid to each commissioned student upon entry into active duty.

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Uniforms

Basic and advanced course students will be provided uniforms and equipment for ROTC courses. All such items of clothing and equipment are the property of the U.S. government and are provided solely for the purpose of furthering the military training of the student. Students are responsible for the safekeeping, care, and return of the property issued to them.

MUSIC (MU)

General Music

MU 294/494. Special Topics (1-4)

A concentrated study of one topic in music. May be repeated for credit. **Prerequisite:** Instructor's permission.

Music Theory

MU 120. Introduction to Music Theory (2)

An introductory course to acquaint the general student with the fundamentals of music: theory, conducting, and listening. Course has a required laboratory session.

MU 121. Music Theory (2)

Fundamentals of harmony and basic elements of sight-singing, melodic dictation, rhythmic dictation, keyboard, timbre, texture, and form used both in aural and visual analysis. Course has a required laboratory session. **Prerequisite:** MU120.

MU 122. Music Theory (4)

A continuation of the fundamentals of harmony and basic elements of sight-singing, melodic dictation, rhythmic dictation, keyboard, timbre, texture, and form used both in aural and visual analysis. Course has a required laboratory session. **Prerequisites:** MU 102, MU 121; Instructor's permission.

MU 221, 222. Advanced Music Theory (4 each)

A continuation of MU 121 and 122 with a further study and analysis of modulation, altered chords, modes, chromaticism, and devices used in contemporary music. Studies will be applied to written, aural, and keyboard skills. Courses have a required laboratory session. **Prerequisites:** MU 121, 122.

MU 311. Computer Music Editing (1)

An introduction to computer assisted production of printing music Finale. **Prerequisite:** Instructor's permission.

MU 313. Synthesizers and Sequencing (1)

An introduction to synthesizers and their applications. Emphasis will be placed on sequencing using Master Tracks Pro. **Prerequisite:** Instructor's permission.

MU 314. Audio Technology (1)

This course is specifically designed to prepare music ministers to manage sound and light technology and personnel in church settings. Emphasis will be placed on how to purchase and set up sound equipment, as well as opportunity to gain hands-on experience "running sound" in a local church.

MU 321. Orchestration (3)

A study of the orchestral instrument families and exercises in writing scores for instrumental ensembles. Emphasis is placed upon full orchestra with secondary attention given to small ensembles and the special needs of school performing groups.

Prerequisite: MU 222; or, instructor's permission.

MU 322. Counterpoint (3)

A study of 18th century counterpoint with emphasis on its influence on polyphonic writing of the 20th century. **Prerequisite:** MU 222. Offered alternate years.

MU 323. Composition (3)

The writing of original compositions, beginning with the song form and proceeding through the sonata form with emphasis given to stylistic elements. **Prerequisite:** MU 222; or, instructor's permission. Offered alternate years.

MU 324. Choral Conducting (3)

Introduction to the fundamentals of conducting techniques, rehearsal methods, and choral music scores. **Prerequisite:** Instructor's permission.

MU 330. Sight-Reading/Accompanying (1)

A fundamental course in developing basic sight-reading and accompanying skills.

Prerequisite: Instructor's permission.

MU 410. Forms and Analysis (3)

A study of standard musical forms in music from the common practice period to the present. **Prerequisite:** MU 222.

MU 498. Seminar in Music Theory (3)

Development of an advanced music theory project. **Prerequisite:** Instructor's permission.

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Music Literature

MU 101. A Survey of Art and Music (3)

An introduction to the stylistic characteristics and cultural climate of the important artistic epochs in history, and includes both the western and the non-western or ethnic traditions. (See AR 101.)

MU 326. Music History: Medieval, Renaissance and Baroque (3)

An introduction to music literature from ancient times to 1750.

MU 327. Music History: Classic, Romantic and Modern (3)

An introduction to music literature from 1750 to the present.

MU 375. Symphonic Literature (1 credit)

A study of representative symphonic literature from the baroque, classic, romantic, and modern periods (18th, 19th, and 20th centuries). May be repeated for credit.

Prerequisite: Instructor's permission.

Music Education

MU 331. Teaching Music in the Elementary School (2)

Study in the application of the principles, procedures, and objectives in school music in the primary and intermediate grades. Special emphasis is given to the basic elements of music and creativity found in Orff and Kodaly as well as folk music of various cultures and traditions. (See ED 334.)

MU 332. Teaching Music in the Secondary School (3)

Strategies appropriate to this subject field, instrumental materials and tools, curricular structure common to this subject in the secondary school. Activities and music of various cultural groups will be explored. Micro-teaching and other simulated experiences are included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See ED 354.)

MU 333. Strings (2)

A study of the basic techniques of the string instruments. Emphasis is placed on development of the requisite skill to direct school string programs.

MU 336. Woodwinds (2)

A study of the basic techniques of the woodwind instruments. Emphasis is placed on development of the requisite skill to direct school instrumental programs.

MU 337. Brass and Percussion (2)

A study of the basic techniques of the brass and percussion instruments. Emphasis is placed on development of the requisite skill to direct school instrumental programs.

MU 339. Piano Methods (3)

A study of teaching materials and methods for the beginner through college level.

MU 341. Voice Methods (3)

A study of voice production, teaching methods and repertoire for the various voice classifications.

MU 342. Choral Methods and Materials (2)

A course which explores the organization and development of a choral music program at the secondary school level. Topics include how to choose and develop voices, find and prepare to teach choral music of various styles, genres, and diverse ethnic cultures, and learn rehearsal techniques and classroom management suitable for school choirs.

Prerequisite: MU 324; or, instructor's permission.

Church Music

MU 211. Introduction to the Ministry of Music (2)

An introductory course dealing with the current status of the ministry of music, fundamental philosophies, historical developments, issues, practical considerations, and basic song leading. Twenty hours of observation experience required. Offered alternate years.

MU 320. Worship Leadership II (2)

This course continues the instruction in PT 322, Worship Leadership I. It is a practical approach to choosing and leading the music of worship in various settings: traditional, contemporary, and liturgical. Students will learn how and where to find music, how to choose the proper music for the situation, how to put several songs together with smooth transitions, and how to lead a congregation in singing the music of worship. In this course, students will have the opportunity to create their own worship services and then lead them in a church or university setting. **Prerequisite:** PT 322.

MU 338. Church Music Administration (3)

An examination of the various roles of the music minister, including techniques and tools for planning and organizing the music program in a local church. The course will explore key principles of leadership and interpersonal relationships, cover basic administrative computer software, and introduce methods of rehearsal planning, recruiting, staffing, budgeting, touring, and music production. Offered alternate years.

Course Descriptions

MU 352. Church Music for Children and Youth (2)

Techniques and resources for all phases of music for children and youth within the contemporary church. Includes vocal and rehearsal techniques, choral literature, handbells, and musical production techniques including use of sound, lights, etc. Offered alternate years.

MU 451. Music in Worship (3)

In-depth study of the role and function of music in worship. Particular attention will be given to literature and resources appropriate for the contemporary church setting, including graded choirs, use of the hymnal, praise and worship resources, choral anthems, and solo and instrumental materials. The student will investigate professional journals, organizations, and publishers. Offered alternate years.

MU 496. Internship in Church Music (1-3)

A course designed to place students in a local church where, under the supervision of the instructor and the minister of music, the student will assume many of the responsibilities in the music ministry. May be repeated for credit.

Music Ensembles

The Music Program reserves the right to place a student in a specific ensemble. With the permission of the Chair of the Art and Music Department, official enrollment may be waived for non-students participating in instrumental ensembles. Performance attire fee required in most ensembles.

MU 230. Jazz Improvisation (1)

Group study of jazz and blues improvisation. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 237. University Women's Choir (1)

Membership open to non-majors as well as majors. Personnel chosen by audition. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 241/441. Brass Ensemble/Hallelujah Brass (1)

An instrumental ensemble of select personnel chosen by audition. Membership open to non-majors as well as majors. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 242/442. Opera/Musical Theatre Production (1)

Hands-on involvement in the performing of a Broadway musical, including acting, singing, choreography, stage lighting and set construction. May be repeated for credit. **Prerequisite:** Audition or instructor's permission. (See AR242/442.).

MU 243/443. Jazz Band (1)

An instrumental ensemble of select personnel chosen by audition. Membership open to non-majors as well as majors. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 244/444. Orchestra (1)

Membership open to non-majors as well as majors. Personnel chosen by audition. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 245/445. Special Ensemble (1)

A course designed for students with unique musical skills. Membership open to non-majors as well as majors. Personnel chosen by audition. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 246/446. Concert Band (1)

Membership open to non-majors as well as majors. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 249/ 349. Crusader Choir (1)

A choir of select personnel chosen by audition. Membership open to non-majors as well as majors. May be repeated for credit. **Prerequisites:** One year of music organization (vocal or instrumental) or equivalent; instructor's permission.

MU 350. Northwesterners (1)

A vocal ensemble of select personnel chosen by audition. Membership open to non-majors as well as majors. May be repeated for credit. **Prerequisites:** One year of music organization (vocal or instrumental) or equivalent; instructor's permission.

Applied Music

Private instruction is available to all students in piano, organ, voice, strings, woodwinds, guitar, percussion, and brass instruments. Lessons missed because of holidays will not be made up. Lessons missed for other reasons, except for illness, will be made up only at the discretion of the teacher who, in all cases, must be notified a reasonable length of time in advance.

Applied music students are expected to practice regularly the assigned number of hours per week for each lesson taken.

One credit per semester is allowed for one lesson per week in any area of applied music. Students in their junior or senior years who have reached a degree of proficiency in applied music may enroll for 400 level credit with instructor's permission. Refer to the

Course Descriptions

Music Program Handbook for additional information. Handbooks are available in the Art and Music Department office.

MU 111. Class Guitar (1)

Class instruction in guitar. May be repeated for credit.

MU 114. Class Voice (1)

Group study of tone production, diction, breathing, and the basic techniques of singing.

MU 116, 117. Class Piano (1 each)

Designed to assist the music major in developing the functional skills necessary for passing the piano proficiency exam. **Prerequisite:** Instructor's permission.

MU 225. Instrument or Voice (1-2)

Private instruction in piano, voice, organ, strings, percussion, woodwind or brass instruments. May be repeated; additional fee required. **Prerequisite for non-major voice students:** MU 114; or, instructor's permission. **Prerequisite for piano students:** instructor's permission.

MU 343. Performance Practices (1)

Development and improvement of skills leading to efficient performance preparation. Emphasis will be placed on piano ensemble performances. May be repeated for credit. **Prerequisite:** Instructor's permission.

MU 344. Diction (3)

A study of Italian, German, French, and English diction employing the International Phonetic Alphabet. Offered alternate years.

MU 425. Instrument or Voice (1)

Private instruction in piano, voice, organ, strings, percussion, woodwind or brass instruments. Available to juniors and seniors who are applied music majors and other juniors and seniors who have reached an appropriate level of proficiency. May be repeated for credit; additional fee required. **Prerequisite:** Instructor's permission.

NATURAL SCIENCE (NS)

NS 101. Descriptive Astronomy (3)

A descriptive study of modern astronomy for the general student, with an emphasis on the structure and dynamics of stars, galaxies, and the Universe. The sun, planets and other objects in our local solar system will also be considered.

NS 102. Environmental Science (3)

A study of the energy crisis in the world today. Production of electrical energy by different methods with by-products, alternatives and future energy sources. Problems of population, types of pollution, recycling and other environmental problems will be discussed from a physical point of view. Although designed primarily for non-science majors all students may take this course.

NS 103. Earth Science (3)

Study of the earth's crust and mantle with emphasis on the physical and chemical processes at work in the earth. The principle of uniformity and the rock cycle are used to study formation and transformation of rocks and minerals. Topics on erosion, volcanism, earthquakes, and mountain building are included; weather and climate are included whenever pertinent. Although designed primarily for non-science majors, all students may take this course.

NS 111. Astronomy Laboratory (1)

A laboratory course taught in connection with NS 101. Observational and laboratory activities are included, some in the evenings. **Pre/Co-requisite:** NS 101.

NS 113. Earth Science Laboratory (1)

A laboratory course taught in connection with NS 103. Field and laboratory activities are included. **Pre/Co-requisite:** NS 103.

NS 201. Science from Space (4)

An interdisciplinary physical science course that covers the main educational topics influenced by NASA and the International Space Station. This course includes an integrated lab. This course is designed for elementary education majors but may be taken by any student with instructor approval. No prior knowledge of science is assumed.

NS 294/394/494. Topics in Natural Science (1-5)

A study of a current topic in science of an interdisciplinary nature. Topics may include, but are not limited to, natural resources practicum, field geology of the Pacific Northwest, and field geology. **Prerequisite:** Instructor's permission.

NURSING (NU)

NU 101. Introduction to Professional Nursing (1)

An introduction to the profession of nursing and the uniqueness of nursing in health care delivery. The origins, scope, and levels of nursing will be explored in relation to the current health care environment.

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NU 202. Conceptual Foundations of Professional Nursing (3)

An examination of nursing roles and professional responsibilities related to health and alterations in health. Students will explore accountability within defined standards of nursing practice and ethical-legal mandates of professional nursing. Professional and Christian values in nursing practice will be emphasized. **Prerequisites:** NU 101, Sophomore standing.

NU 203. Health and Health Promotion (1)

A presentation of the concepts of health in individuals, groups and communities. Professional responsibility of nurses and roles for nurses in health promotion and health maintenance across the lifespan will be explored. **Prerequisite:** Admission to nursing. **Co-requisites:** NU 211, 222.

NU 211. Health Assessment Across the Lifespan (4)

An experience-based presentation of skills designed to prepare the student for holistic health assessment focusing on client needs. A scholarly approach addressing influencing factors to quality health assessment will be emphasized. Clinical/Laboratory component. **Prerequisite:** Admission to nursing. **Co-requisites:** NU 203, 222.

NU 222. Fundamentals of Professional Nursing (4)

An introduction to the fundamental cognitive, affective and psychomotor skills needed for professional nursing practice. Nursing activities that promote, maintain and/or restore health will be presented and practiced within the context of common human needs and the nurse-client relationship. Communication, basic psychomotor skills and use of nursing process will be emphasized. Clinical/Laboratory components. **Prerequisite:** Admission to nursing. **Co-requisites:** NU 203, 211.

NU 304. Pharmacology (3)

An examination of the major classifications of drugs, their actions, interactions and clinical implications. Roles and responsibilities in pharmacotherapeutics will be explored. **Prerequisites:** NU 203, 211, 222. **Co-requisites:** NU 333, 344. (See BI 304.)

NU 333. Mental Health Nursing (4)

A study of nursing practice with the goals of promoting, maintaining, and restoring mental health of individuals and groups. Therapeutic use of self and communication techniques will be practiced in nurse-client relationships. Clinical/Laboratory component. **Prerequisites:** NU 203, 211, 222. **Co-requisites:** NU 304, 344.

NU 344. Nursing of Adults with Acute and Chronic Health Alterations (6)

A study of the nursing roles and actions with adults experiencing acute and chronic alterations in health with the goal of health restoration. Impact upon the family will be incorporated. Critical thinking and therapeutic skills will be practiced within nurse-

client settings. Clinical/Laboratory component. **Prerequisites:** NU 203, 211, 222. **Co-requisites:** NU 304, 333, BI 382.

NU 351. Nursing of Women and Childbearing Families (4)

An experience-based study of the roles and functions of nursing in health promotion, health maintenance and health restoration of women. Critical thinking in nursing management of the childbearing woman and family will be a focus. Clinical/Laboratory component. **Prerequisites:** NU 304, 333, 344.

NU 362. Nursing of Children and Childrearing Families (4)

An experience-based study of nursing roles and functions in health promotion, health maintenance, and health restoration of children from infancy through adolescence. Principles of growth and development will be applied in nursing management of children and adolescents. The significance of family relationships will be a focus. Clinical/Laboratory component. **Prerequisites:** NU 304, 333, 344.

NU 406. Leadership and Management in Professional Nursing (3)

An investigation of theories and principles of leadership and management applied within professional nursing practice. **Prerequisites:** NU 473, 484.

NU 407. Issues and Trends in Professional Nursing (2)

An investigation of trends and influences on nursing and health care within the context of regional, national and global arenas. Policies and processes for management of contemporary health care issues will be explored within professional nursing practice. **Prerequisites:** NU 473, 484. **Co-requisites:** NU 406, 496.

NU 408. Foundations of Nursing Research (3)

An analysis of the scientific research process in nursing. Students will be guided in applying and incorporating research into nursing practice. **Prerequisites:** NU 304, 333, 344.

NU 473. Nursing of Adults with Complex Health Alterations (6)

A study of nursing management of adults and families experiencing complex health alterations. Critical thinking and therapeutic skills will be practiced within critical care settings. Health restoration will be emphasized. Clinical/Laboratory component. **Prerequisites:** NU 351, 362.

NU 484. Community Health Nursing (5)

An experience-based study of nursing in health promotion, health protection, and health maintenance for communities. A major emphasis will be the collaborative role of nursing in management of community health care needs. Environmental influences upon the health of groups will be a focus. Clinical/Laboratory component. **Prerequisites:** NU 351, 362. **Co-requisite:** NU 473.

NU 496. Transition to Professional Nursing Practice (4)

A practical application of leadership and management theories in professional nursing practice and delivery of health care. Clinical/Laboratory component. **Prerequisites:** NU 473, 484. **Co-requisites:** NU 406, 407.

NU 499. Independent Study (1-2)

An advanced independent study designed in consultation with the major advisor and approved by the Chair of the Department. **Prerequisites:** Senior standing in nursing and permission of an instructor.

OFF-CAMPUS (OC)

Students granted acceptance for approved Northwest Nazarene University off-campus study programs will use the course numbers listed below along with the off-campus program course title.

OC 194. Topics (1-8)

An entry level off-campus program of study. May be repeated for credit under a different title. **Prerequisites:** Academic advisor's permission on pre-registration schedule, off-campus program acceptance, and approved NNU application for off-campus study.

OC 294. Topics (1-8)

A sophomore level off-campus program of study. May be repeated for credit under a different title. **Prerequisites:** Academic advisor's permission on pre-registration schedule, off-campus program acceptance, and approved NNU application for off-campus study.

OC 394. Topics (1-8)

A junior level off-campus program of study. May be repeated for credit under a different title. **Prerequisites:** Academic advisor's permission on pre-registration schedule, off-campus program acceptance, and approved NNU application for off-campus study.

OC 494. Topics (1-8)

A senior level off-campus program of study. May be repeated for credit under a different title. **Prerequisites:** Academic advisor's permission on pre-registration schedule, off-campus program acceptance, and approved NNU application for off-campus study.

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PHILOSOPHY (PL)**PL 201. Introduction to Philosophy (3)**

A study of the major problems with which philosophy deals and an introduction to the major philosophers of the Western world. Students will be introduced to critical thinking and writing.

PL 202. Ethics (3)

An introduction to the concept of good, involving a study of the major ethical theories of the West and their applications to contemporary moral problems.

PL 301. History of Ancient and Medieval Philosophy (3)

A chronological study of the foundations of Western thought from the early Greeks through the medieval period, concentrating on the primary source material from Plato, Aristotle, Augustine, and Thomas Aquinas.

PL 302. History of Modern Philosophy (3)

A survey of the major philosophers of the 17th, 18th, and 19th centuries with special consideration for the influence of their thought upon the modern world.

PL 306. Critical Reasoning (2)

An introduction to the science and art of reasoning, including both deductive and inductive reasoning processes. Basic concepts such as validity, soundness, strength, and argument evaluation will be covered. The course will be primarily concerned with uncovering pitfalls in everyday reasoning, e.g., probabilistic reasoning, informal fallacies, biases and distortions in perception and memory, context and emotion in thought processes, and social aspects of reasoning and persuasion. **Note:** This class may serve as a general education humanities elective, but will not fulfill the general education philosophy requirement unless PL 307 is also completed.

PL 307. Formal Logic (2)

An introduction to the characteristics of valid argumentation, including the recognition, recasting, construction, and evaluation of arguments and statements. The principles of symbolic logic, including both the syntax and the semantics of the sentential and the predicate calculus, will be covered. **Note:** This class may serve as a general education humanities elective, but will not fulfill the general education philosophy requirement unless PL 306 is also completed.

PL 311. Philosophical Perspectives (3)

A study of specific philosophers through the reading of their works. Each course will focus on a single philosopher or on a single philosophic movement. Significant works will be read and discussed. Special attention will be given to understanding and critical

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response. The course may be repeated for credit if the content is different each time. This course is offered only during the summer session.

PL 341. Philosophy and Literature of Existentialism (3)

A study of the major concepts of existential philosophy along with the literary styles that are used by the major existential thinkers. The study will include Kierkegaard, Nietzsche, Sartre, Camus, Tillich, and Buber.

PL 350. Bioethics (2)

A survey of biotechnological advances and a review of ethical theories. A series of guest lecturers explore various facets of biotechnology and ecology as viewed from each particular discipline. These include issues viewed from economics, religion, sociology, research science, politics, and law. **Prerequisites:** PL 201 or 202.

PL 351. Philosophy of Science (2)

A survey of the important epistemological foundations of scientific investigation. The study will provide students with an opportunity to make critical evaluation of these foundations. The nature of scientific inquiry and discovery will be examined historically. The course will also focus attention on ethical implications of scientific investigations and will stress interdisciplinary dialogue.

PL 352. Theories of Politics (4)

A critical exploration of major themes and issues in the Western political and philosophical tradition from Plato to today, organized around the question, "Why should I obey the State?" Special emphasis will be placed on the concepts of state, citizen, obedience, and the rule of law. Offered alternate years. (See PS 352.)

PL 360 Clinical Ethics (2)

A review of the traditional theories of and the contemporary ethical applications to health care. The focus is the integration of ethical responsibility and the medical environment. Theorists and practitioners will contribute insight about methodology and motives that determine the decisions that are made in the dynamic of modern medical care. **Prerequisites:** PL 201; or, 202. and BI 101; or, the equivalent. (See BI 360.)

PL 394. Topics in Philosophy (1-4)

An examination of a specific area in philosophy. Topics will be announced as the course is scheduled and may include: applied ethical theory, philosophy of education, philosophy of logic, philosophy of nature, etc. May be repeated for credit.

PL 421. Contemporary Philosophy (3)

A survey of the philosophers of the 20th century and the trends in natural, social, and political science that have impacted their thought. Both the analytic and continental

streams of thought will be addressed with special attention given to positivism, existentialism, linguistic analysis, and postmodernism. **Prerequisite:** 4 credits in philosophy; or, instructor's permission.

PL 440. Epistemology (2)

A careful study of the nature of knowledge and what constitutes a valid knowledge claim. The study will include the consideration of skepticism, other minds, beliefs, etc.

Prerequisite: 4 credits in philosophy; or, instructor's permission.

PL 443. Metaphysics (2)

A systematic study of the structure and meaning of reality. The problem of space, time, causation, universals, freedom and God will be considered. **Prerequisite:** 4 credits in philosophy; or, instructor's permission.

PL 452. Philosophy of Religion (3)

A constructive study of religious claims, thoughts, and practices from the philosophic point of view. Special attention is given to problems such as: the idea of God, immortality, evil, freedom and determinism. **Prerequisite:** 4 credits in philosophy; or, instructor's permission.

PL 498. Seminar in Philosophy (3)

A study of topics will be announced as the course is scheduled and could include: personality, social philosophy, philosophy of science, and aesthetics. **Prerequisite:** 8 credits in philosophy; or, instructor's permission.

STEP PROGRAM

PL 312. Philosophical Concepts (3)

An introduction to basic philosophical concepts. Special attention will be given to understanding and critical response. **Prerequisite:** Admission to the STEP Program.

PHYSICS (PH)

PH 101. Conceptual Physics (3)

Fundamental principles of physics. The concepts of physics as understood by modern physicists are presented through the use of simple, non-mathematical models, analogies and demonstration experiments. No prerequisite in mathematics or science is required.

PH 111, 112. College Physics with Laboratory (5 each)

A comprehensive non-calculus based approach to the fields of physics. Designed for students whose career goals are architecture, business, physical therapy, science education, and pre-medicine. Emphasis is placed on problem solving. Topics covered include mechanics, heat and thermodynamics, sound, electricity and magnetism, light

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and optics, and modern physics. The laboratory uses the discovery approach to physical principles. **Prerequisites:** MA 130, 140; or, equivalent to high school algebra and trigonometry.

PH 202. Introduction to Physics and Engineering (3)

An introduction to physics and engineering disciplines and careers. Topics include techniques for analyzing and solving problems, engineering graphics, software in engineering and science, and professional ethics. Guest lectures from area engineers and physicists will be given to the student for a feel of what is expected in the work force. May include field trips and/or projects. (See EG 202.)

PH 211, 212. Physics for Science and Engineering with Laboratory (5 each)

A comprehensive calculus based examination of the fields of physics. Designed for science students whose career goals are in engineering, physics, chemistry, medicine and veterinary science. Topics covered include mechanics, thermodynamics, wave phenomena, electricity and magnetism, and optics. Selected experiments from these fields are conducted in the laboratory. **Pre/Co-requisites:** MA 251, 252.

PH 231, 232. Instrumentation in Experimental Physics (1 each)

Selected experiments in physics and chemistry using instruments commonly used in these disciplines. **Prerequisites:** PH 211, 212.

PH 313. Modern Physics (3)

Basic ideas of quantum theory which led to the Rutherford-Bohr model of the atom; elementary quantum mechanics using the Schroedinger equation with applications to atoms, molecules, nuclei and elementary particles. Atomic and molecular spectra; ionic and covalent bonds; theory of alpha, beta and gamma decay. Quantum statistics of Bose and Fermi particles. **Prerequisites:** PH 212; MA 354.

PH 341. Analytic Mechanics (4)

Applications of Newtonian mechanics to physical systems. Topics covered include central force problems, equations of motion of Lagrange and Hamilton, normal modes resulting from small vibrations, and rotating frames of reference. **Pre/Co-requisites:** PH 211; MA 353, 354. Offered alternate years.

PH 351. Thermodynamics and Statistical Mechanics (4)

An integrated approach to the study of thermodynamics and statistical mechanics. Topics covered include the properties of gases, liquids, and solids from a thermodynamic viewpoint; phase diagrams, first, second and third laws of thermodynamics and related state functions such as energy, entropy, enthalpy; free energy and the Gibbs function with applications to chemical and physical systems. Additional topics include probability distributions for classical and quantum systems; microcanonical, canonical and grand canonical partition-functions and associated

thermodynamic potentials; conditions of thermodynamic equilibrium for homogenous and heterogenous systems. **Prerequisites:** PH 211; MA 353. Offered alternate years.

PH 394. Topics in Physics (1-4)

A concentrated study in a field of physics not covered in other courses such as low temperature physics, Mossbauer spectroscopy, elementary particles, relativity, and cosmology. May be repeated for credit. **Prerequisites:** PH 212; MA 354.

PH 461. Electricity and Magnetism (4)

A vector calculus based examination of the laws of Gauss, Biot-Savart, Ampere and Faraday; application of the equations of Laplace and Poisson to boundary valued problems. Maxwell's equations are introduced and used to investigate electromagnetic wave propagation in different media and radiation from antennas. **Pre or Co-requisites:** PH 212; MA 353, 354. Offered alternate years.

PH 471. Optics (4)

Physical optics with emphasis on the application of the principles of physical optics to interference, diffraction, and polarization; study of lasers, photometry and interferometry. **Prerequisite:** PH 461. Not offered every year.

PH 472 Solid State Physics (4)

An introduction to the physics of the solid state of matter. Topics include crystal structure, lattice vibrations and electronic band structure of crystals, electrical, optical, and thermal properties of solids, transport and other nonequilibrium phenomena in uniform and non uniform solids. **Prerequisite:** PH 461. Offered alternate years.

PH 481. Fundamentals of Quantum Mechanics (4)

A beginning course in quantum mechanics which starts with the postulates and derives Schroedinger's equation from physical optics principles. Several simple systems are studied and the properties of eigen functions are used to introduce matrix methods and operator theory. Emphasis is placed on mathematical formalism with applications to atomic systems. **Prerequisites:** PH 313, MA 353, 354. Offered alternate years.

PH 497. Junior-Senior Project (1)

Participation with a faculty member in an individual investigative project or literature review. May be repeated for credit. Required of all physics and engineering physics majors.

PH 498. Senior Seminar (1)

Required of and limited to seniors. Involves a written and oral presentation of work completed in PH 497.

POLITICAL SCIENCE (PS)

PS 101. American National Politics (4)

An introduction to American politics from the 18th century to the present. Major themes and events include the writing of the U.S. Constitution, the development of American political principles and institutions, and contemporary political practices and issues in the U.S.

PS 103. The Foundations of Politics: The Quest for Peace and Justice (4)

Special emphasis given to peace and justice in political communities, as well as the relationship of religious faith to political thought and practice. This course emphasizes the development of reading, writing and critical thinking skills and examines historical and contemporary political issues rooted in perennial questions about justice.

PS 105. Introduction to International Relations (4)

An introduction to the international political system and its major institutions, issues, and events. Major themes and events include the nature of the state system, national security and national interest, war and peace, alliances, diplomacy, the cold war, conflict resolution, and international law.

PS 221. The United Nations and International Law (2)

A survey of the work of the United Nations from its inception to the present. Special attention is placed on the purpose of the U.N., its major institutions, the role of the U.N. in dispute resolution, and the development and application of international law.

PS 222. International Diplomacy: The Model United Nations (2)

An application of material from PS 221 and other courses as students serve as delegates to the Model United Nations of the Far West. This course includes extensive research on the country the delegation represents, along with intensive preparation in parliamentary procedures and debate. May be repeated for credit. **Prerequisite:** PS 221.

PS 331. Presidential Power: The Politics of Leadership (4)

An in-depth analysis of the presidency in the American political system. The course will examine the origins of the presidency, the nature of executive-legislative relations, the growth of presidential power, and the exercise of presidential power, especially in the modern era. Offered alternate years.

PS 333. U. S. Foreign Policy (4)

An in-depth examination of the factors influencing the U.S. as a participant in the international system, especially from the end of World War II to the present. Topics include U.S. foreign policy and ideology, domestic politics and interest groups, public

opinion and the media, and historical events considered chronologically. (See HS 333.) Offered alternate years.

PS 341. American Political Thought and Ideology (4)

A critical investigation of political ideas and ideologies from the pre-revolutionary era through the founding period, early 20th century and New Deal, to present distinctions between liberals, conservatives, and other contemporary political orientations. The course examines the evolution of American political discourse, with particular emphasis on liberty, equality, the locus of power in the American political system, and the relationship between the included and excluded in American political history. Offered alternate years.

PS 352. Theories of Politics (4)

A critical exploration of major themes and issues in the Western political and philosophical tradition from Plato to today, organized around the question, "Why should I obey the State?" Special emphasis will be placed on the concepts of state, citizen, obedience and the rule of law. Offered alternate years. (See PL 352.)

PS 361. Comparative Politics (4)

An in-depth study of how nations are governed and how different political systems operate. This course examines how modern political systems try to resolve complex domestic and international problems. Topics include nation-building, the role of ideology and leadership, and the relationship between political and economic development. Offered alternate years.

PS 394. Topics in Political Science (2-4)

An examination of various aspects of politics and political science conducted in a seminar format. May be repeated for a maximum of 4 credits. **Prerequisite:** Instructor's permission.

PS 441. Constitutional Law (4)

An in-depth study of the U.S. Supreme Court and its role in the American political and legal systems. Landmark judicial decisions are examined concerning governmental powers, separation of powers and federalism. Special attention is paid to legal reasoning and the role of the Court and its work in American government and society. Recommended for students interested in law school. Offered alternate years.

PS 442. Civil Rights and Civil Liberties (4)

A critical examination of U. S. Supreme Court decisions involving constitutional rights and liberties with special attention given to the Bill of Rights and the Fourteenth Amendment. Topics will include religious freedom, freedom of expression, rights in criminal procedure, due process and equal protection, including racial and gender

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discrimination and sexual harassment. Offered alternate years. **Prerequisite:** PS 441; or, instructor's permission.

PS 456. International Peace and Global Governance (4)

An in-depth study of conflict and conflict resolution in the international political system. This course examines various theories and models such as negotiation theory, peace studies, Biblical models, international law, global human rights, and international order models. Offered alternate years.

PS 496. Internship in Political Science (4-8)

A supervised, practical work experience in either the public or private sectors. The internship is required of all political science majors and provides an opportunity to gain practical experience in government and politics. **Prerequisite:** Instructor's permission.

PS 497. Senior Thesis (4)

A capstone experience involving the writing of a major research paper under the close supervision of a political science faculty member. The paper is subject to multiple stages of criticism and rewriting. Required of all political science and international studies majors.

PS 498. Seminar in International Studies (4)

An in-depth examination of a particular problem, issue, or event in global affairs. The course is discussion-centered and involves extensive readings in the field of international studies. May be repeated for credit. **Prerequisite:** Instructor's permission. Offered alternate years.

PRACTICAL THEOLOGY (PT)

PT 171. Introduction to the Christian Ministry (1)

A study of the meaning of a call to vocational ministry. Topics included are standards of character and service; demands and opportunities confronting the ministry; and guidance in planning college courses.

PT 172. Introduction to Evangelism (1)

An introduction to personal and group evangelistic procedures. The philosophy of evangelism, the history of evangelistic methods, methods in personal evangelism, and other related topics will be presented. May be repeated for credit.

PT 222. Instructional Bible Study (2)

A Bible study course that will examine and apply appropriate methods and materials for teaching the Bible. Opportunity is given to develop personal skills in teaching and leading small group Bible Studies.

PT 271. Introduction to Missiology (3)

An introduction to the Biblical basis, the theory and philosophy of missions in a contemporary world setting. The call and preparation of candidates for missionary service will also be examined.

PT 296/396. Field Experience in Christian Ministry (1 each)

A study of and practical application of topics in pastoral theology. In addition to the weekly class time, the student will contract to be involved in some phase of Christian ministry in a local church or other appropriate ministry setting.

PT 321. Spiritual Formation and Christian Discipleship (2)

A study of the theory and practice of spiritual formation and Christian discipleship. The purpose of this study is to conserve the fruit of evangelism. Attention will be given to the reflective discipline of one's own individual journey with God in personal spiritual development. Further attention will be given to discipling through mentoring and in small groups.

PT 322. Worship Leadership I (2)

A study of the theory and practice of worship both personal and corporate. The purpose of this study is to help the student to envision, order, participate in, and lead in contextualized theologically grounded worship. Attention will be given to the ability to develop and lead appropriate services for regular worship services as well as for special occasions (i.e., weddings, funerals, baptism, and the Lord's Supper).

PT 355. Intervention Methods I (4)

A presentation of the basic skills, values, and knowledge bases for social service ministries practice. The systematic contexts for the profession, its clients, and the nation's social welfare policies will form the background for instruction. The ecosystems perspective will be used to focus on the individual and family systems.

Prerequisites: SW 211, 285, and departmental approval for the Intervention Methods sequence. **Co-requisite:** PT 359a

PT 356. Intervention Methods II (4)

An extension of the first practice methods course (PT 355). During this semester, attention will be given to the social service provider engaging in intervention with groups, organizations, and macro client systems. Both the strengths perspective and the planned change/intervention process will be employed for teaching and analytical purposes. Diversity factors (e.g., racism, ageism, genderism, classism, sexual orientation, and "foreignism") will be considered as issues for addressing assessment, case planning, and intervention. **Prerequisite:** PT 355 **Co-requisite:** PT 359b.

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PT 359a, b. Skills Practicum (1 each)

A ministry setting for observation of and engagement in social service ministries practice under the supervision of a skilled practitioner. Students will log 60 hours for each semester enrolled. Attention will be given to identifying the knowledge, skills, and values bases of intervention. During this junior year practicum setting, each student shall practice using the problem solving process (including assessment, goal setting, development of strategies, action plans, termination, and evaluation). **Co-requisites:** PT 355 and 356.

PT 371. Preaching (2)

A study of the preparation and delivery of sermons within the context of worship, including practice preaching. **Prerequisites:** CO 121; junior/senior standing.

PT 375. Urban Ministries (3)

A study of the developing philosophy, literature, and programs currently being developed by evangelical churches in America to focus on the social and evangelical needs of people living in American cities today. Special attention will be given to the urban missions being developed by the Church of the Nazarene. A field trip is a required part of the course.

PT 378. Pastoral Care and Counseling I (2)

A study of the scope, expectations, and techniques of pastoral care and counseling. Special attention will be given to parish pastoral care.

PT 379. Pastoral Care and Counseling II (2)

A study of the scope, expectations, and techniques of pastoral care and counseling. Special attention will be given to marriage preparation, marriage counseling, and family relations.

PT 394. Topics in Practical Theology (1-4)

An examination of some phase of Practical Theology not covered in other courses. May be repeated for credit.

PT 471. Church Growth and Evangelism (3)

A study of church growth and development with special emphasis on church health, mission, and evangelism. Attention will be given to the skills of observation of church and community, both historic and contemporary. Students will describe the socialization and dynamics of the church to culture, and create mission and vision statements for effective ministry. A field trip is a required part of the course.

PT 481. Leadership and Administration I (2)

A study of the principles of leadership and administration in Christian ministries. Special attention will be given to conflict management and professional ethics. (See CE 481.)

PT 482. Leadership and Administration II (2)

A study of the principles of leadership and administration in Christian ministries. Areas to be discussed will include: spiritual gifts; selecting, organizing, and maintaining a church staff; personal and church resource management. Field trips to several churches with multiple staff will be included. (See CE 482.)

PT 496. Internship in Ministry (3)

A practical course, open only to seniors in the Department of Religion, involving a ministry experience in areas including preaching, counseling, teaching, education, evangelism, and administration. This experience will be under the direction of the instructor in cooperation with the supervising ministry mentor. May be repeated for credit.

PSYCHOLOGY (PY)

PY 125. Psychology for Life (2)

An overview of the principle issues in the psychology of adjustment. The causes and patterns of behavior are analyzed to enable students to acquire insight and understanding regarding the actions of the emotionally healthy as well as the emotionally disturbed.

PY 155. Introduction to Psychology (3)

A study of the basic principles of human behavior giving attention to developmental patterns, motivation and adjustment, learning and memory processes, and individual differences in aptitude, personality, and mental health.

PY 210. Lifespan Development (3)

A study of growth and development of human beings from conception to death with emphases on the areas of cognitive processes, language development and social interactions. **Prerequisite:** PY 155.

PY 211. Educational Psychology (3)

A study of the psychological implications involved in the teaching-learning situation with emphasis on those psychological principles applicable to children ages 6-12 and adolescents 13-18. A variety of learning and developmental theories based on research from the field of psychology are covered. **Prerequisites:** PY 155; sophomore classification. (See ED 211.)

PY 274. Helping Skills (2)

An introduction to the basic principles of counseling and psychotherapy. **Prerequisite:** PY 155.

Course Descriptions

PY 336. Child Psychology I (2)

An overview of the emotional and cognitive development of the child. Attention is given to interruptions in the normal developmental pathways. **Prerequisites:** PY 155 and 210.

PY 337. Child Psychology II (2)

An overview of the social and health related development of the child. Attention is given to interruptions in the normal developmental pathways. **Prerequisites:** PY 155 and PY 210.

PY 345. Abnormal Psychology (3)

A study of the etiology and dynamics of psychopathology designed to give the student a working vocabulary of terminology and concepts in the area of abnormal behavior. The course includes discussions about treatments and ethics involved in caring for those suffering from mental disorders. **Prerequisite:** PY 125 or 155.

PY 355. Psychology of Religion (2)

A study of the psychological implications of religious experience and a comparison of psychological and religious views of human behavior. **Prerequisite:** PY 155. Offered alternate years.

PY 364. Experimental Design and Statistical Analysis with Laboratory I (4)

A course that integrates experimental methodology and statistical data analysis procedures in behavioral science. Emphasizes statistical descriptions, statistical inference and hypothesis testing. Lecture and laboratory. **Prerequisite:** 6 credits in psychology or related field.

PY 365. Experimental Design and Statistical Analysis with Laboratory II (4)

A course that integrates experimental methodology and statistical data analysis in behavioral science. Emphasizes experimental design, data collection, laboratory experience, and scientific report writing. Lecture and laboratory. **Prerequisite:** PY 364.

PY 366. Adolescent Psychology (2)

In this course as emphasis is placed on the psychological dynamics of the adolescent period. An analysis is made of those factors which create problems, and shape the behavior of adolescents. **Prerequisites:** PY 155 and PY210.

PY 375. Counseling Theory (2)

This course is a study of the fundamental theories of counseling and psychotherapy. An emphasis is placed upon the psychological processes involved in counseling. **Prerequisite:** 3 credits in psychology.

PY 376. Adult Psychology (2)

A course which examines theories that deal with development in the post-adolescent years. It explores the physical, intellectual, social and emotional aspects of development through the adult years, including issues related to the elderly. **Prerequisites:** PY 155 and PY210. Offered alternate years.

PY 385. Biological Foundations of Behavior (4)

A comprehensive study of the neural processes underlying brain function and behavior. A major emphasis is placed on an understanding of basic brain organization and function, and the neural substrates of emotion, motivation, learning, and memory. Lecture and laboratory. Offered alternate years. Recommended as background: BI 201, 203, or BI 221. (See BI 385.)

PY 394. Topics in Psychology (1-3)

A variety of subjects are presented. Different topics are covered each offering. May be repeated for credit with change of topic.

PY 396. Field Experience (1-2)

Readings and supervised field experience designed to give the student practical application in the areas of assessment, counseling, and behavior modification. May be repeated for a maximum of 4 credits. **Prerequisite:** Instructor's permission.

PY 411. Psychology of Learning with Laboratory (4)

An examination of the basic principles and theories of learning with major attention given to the problems of human learning. Lecture and laboratory. **Prerequisite:** 9 credits in psychology. (See ED 411.) Offered alternate years.

PY 435. Personality Theory (3)

A study of the development, structure, and modification of human personality. Modern theories of personality are submitted to critical analysis. **Prerequisite:** 6 credits in psychology. Offered alternate years.

PY 455. Social Psychology (3)

A study of the inter-relationships between individuals and their social environments. It introduces the student to the areas of interest, the methods of investigation, and some of the theories and findings of the field of social psychology. **Prerequisites:** 3 credits in sociology; 3 credits in psychology. (See SO 455.)

PY 461. Psychological Testing with Laboratory (4)

An introduction to the theory, problems, methods and content of psychological testing. The first part of the course deals with the basic concepts of the purpose of testing, test administration, scoring, standardization, reliability, validity, and test evaluation. The remainder of the course covers the principal intelligence, achievement, aptitude, interest

Course Descriptions

and personality tests. Lecture and laboratory. **Prerequisite:** 12 credits in psychology. Offered alternate years.

PY 472. Group Theory and Processes (4)

A study of historical and contemporary settings of groups as related to theoretical foundations of group work including experiential activities involving group dynamics. Lecture and laboratory. **Prerequisite:** PY 375 or SW 355. (See SO 472.)

PY 475. History and Systems of Psychology (2)

A historical survey of modern psychology and an analysis of the classical systems and contemporary theories in psychology. **Prerequisite:** 16 credits in psychology. Offered alternate years.

PY 495. Practicum in Mental Measurement (3)

An introduction to the most widely used individually administered intelligence tests: Kauffman Assessment Battery for Children (K-ABC), the Wechsler Intelligence Test series (WPPSI, WISC-III, WAIS-III), and the Stanford Binet Intelligence Scale. Administration, scoring, interpretation and report writing are emphasized. **Prerequisites:** PY 461; instructor's permission. Offered alternate years.

PY 497. Research (1-4)

The student will develop and complete an empirical research project and complete a written report suitable for submission to a psychological journal, or the student will assist a psychology faculty member in independent professional research. May be repeated for a maximum of 6 credits. **Prerequisites:** PY 364, 365, and instructor's permission.

PY 498. Seminar in Psychology (3)

A deeper probing of selected areas of psychology designed for study in-depth for advanced students. May be repeated for credit. **Prerequisite:** Instructor's permission. Offered alternate years.

SOCIAL WORK (SW)

SW 172. Social Welfare in Contemporary Society (3)

An introduction to the recurrent needs of citizens and how society is organized to respond to these needs. The course is organized around the major themes of poverty, socioeconomic class differences, and other major differences among people that interact with poverty and classism. Also, the course includes a review of the history and current nature of social welfare services.

SW 211. Introduction to Social Work (3)

An introduction to the profession of social work. This course serves as an orientation to the nature of social work practice, the issues that confront social workers, and the types of client systems served by social workers. Several social workers from varied practice specialties will be guests to describe their careers. Each student will be required to log some volunteer hours in a social service setting.

SW 285. Human Behavior and the Social Environment (4)

An assessment of the dynamic interactions of the social contexts in which human development occurs. This course will review the processes for biological, psychological, intellectual, emotional, and spiritual development. An ecosystems framework will be employed to give special attention to diversity issues such as ethnicity, social class, and discrimination as factors affecting human development. **Co/Prerequisites:** SW 211, BI 106, PY 155, SO 155 or SO 203, and PS 103 or EC 105.

SW 296. Field Experience in Social Work (1–4)

An in-agency experience involving observation and participation in the delivery of social services. Agency assignments will be made by the instructor. This course may be repeated for additional credits. May be repeated for a maximum of four credits.

Prerequisite: SW 172 or SW 211; or, the instructor's permission.

SW 297. Urban Field Experience (1)

A several-day urban immersion experience and coordinated readings. The foci for this course will be to look at services for the homeless and the programs for the development of housing stock for low income people in one major urban area. **Prerequisites:** SW 172 or 211; and the instructor's permission.

SW 325. Substance Abuse, Prevention, and Intervention (3)

An overview of the phenomenon of addictions in general and addictions to substances in particular. This course will focus on the role of alcohol, tobacco, and other drugs in American society, the abuse of these substances, and strategies and policies for prevention and intervention of abuse. The skills required for professional social workers and allied treatment professionals to work with substance abusers will be considered. Special attention will be given to the role of macro policies, societal values, and the support systems required for effective intervention and prevention strategies.

Prerequisite: SW 172 or 211; or, instructor's permission. Offered alternate years.

SW 335. Child Welfare Services (3)

An exploration of the nature and range of child (up to age 18) welfare services offered in the United States with some comparative studies from international social work. Material covering social work intervention strategies, governmental child welfare policies, and societal values regarding these strategies and policies will be introduced.

Prerequisite: SW 172 or 211; or, instructor's permission. Offered alternate years.

SW 345. Gerontology and Geriatric Social Work (3)

An overview of the need for and the nature of social work practice with the increasing population of elderly Americans. This course includes a review of the multiple dimensions of aging and the implications of these for social work practice with the elderly. Material covering social work intervention strategies, governmental policies and programs, and societal values regarding services for the elderly will be considered.

Prerequisite: SW 172 or 211; or, instructor's permission. Offered alternate years.

SW 355. Social Work Methods I (4)

A presentation of the basic skills, values, and knowledge bases for social work practice. The systemic contexts for the profession, its clients, and the nation's social welfare policies will form the background for instruction. The ecosystems perspective for social work practice will be used to focus on the individual and family client systems.

Prerequisites: SW 211, 285, and acceptance for taking methods courses in the Department of Social Work. **Co-requisite:** SW 359a.

SW 356. Social Work Methods II (4)

An extension of the first practice methods course (SW 355). During this semester, attention will be given to the social worker engaging in intervention with groups, organizations, and macro client systems. Both the strengths perspective and the planned change/intervention process will be employed for teaching and analytical purposes. Diversity factors (e.g., racism, ageism, genderism, classism, sexual orientation and "foreignism") will be considered as issues for addressing assessment, case planning, and intervention. **Prerequisite:** SW 355. **Co-requisite:** SW 359b.

SW 359a,b,c. Skills Practicum (1 each)

An in-agency setting for observation of and engagement in social work practice under the supervision of a skilled practitioner. Students will log 60 hours for each semester enrolled. Attention will be given to identifying the knowledge, skills, and values bases of the profession. During this junior year practicum setting, each student shall practice using the planned-changed/intervention process (including assessment, goal setting, development of strategies, action plans, termination, and evaluation). **Co-requisites:** SW 355 or 356.

SW 375. Social Welfare Policy (3)

An investigation of the history, development, and current nature of welfare policies in the United States. Some comparative material with other developed and developing countries will be added for the purposes of teaching and analysis. The dynamic interaction of organizations, rationale, and perspectives behind the policies and programs developed by federal, state, local, and private entities will be reviewed. Strategies for developing, implementing, and/or influencing the development of policies will be studied. **Prerequisite:** SW 172 or 211.

SW 397. Social Work Research and Statistics (4)

An introduction to research and statistics as tools for understanding and improving social work practice. This course will include a review of traditional scientific research methodologies and alternative perspectives, such as the feminist approach to research. Attention will be given to how to employ descriptive, exploratory, explanatory, and evaluative research (and supportive statistical tools) to assess one's professional practice and agency programs. The course will include an introductory review and use of SPSS (Statistical Package for the Social Sciences). **Prerequisites:** SW 211, 285.

SW 494. Topics in Social Work (1)

A workshop format course designed to cover current topics of interest in the field of social work. This course may be repeated for credit. **Prerequisite:** SW 285.

SW 496a,b,c. Advanced Practicum in Social Work (4 each)

A senior-level social work internship in a social service agency. The student is assigned to work under the supervision of a licensed social worker. The placement is chosen to assure that the student attains necessary competencies for entry level social work. Normally the internship experience is spread across two terms, involving 200 hours of on-location time for each semester. **Prerequisites:** SW 355, 356, 359a,b. **Co-requisites:** SW 498a, b.

SW 498a,b,c. Senior Field Seminar (1 each)

A senior-level seminar that runs concurrently with Advanced Practicum in Social Work. This seminar is designed to help students integrate social work theory and social work practice. A small group format is used so that each student contributes to the learning of the other students. The focus is for each student to be prepared for entry into generalist social work practice upon graduation. **Co-requisite:** SW 496a, b.

SOCIOLOGY (SO)

SO 132. Family Relationships (2)

A personality oriented study of the individual and her or his place in the family. Sections on mate selection, courtship, engagement, marriage and subsequent adjustment. Offered alternate years.

SO 155. Introduction to Sociology (3)

An introduction to the sociological perspective and to basic theories and procedures for studying society with an emphasis on understanding the fundamental nature of social relationships, structures and processes.

SO 203. Cultural Anthropology I (2)

Course Descriptions

This course focuses on basic perspectives and concepts for understanding and productively relating to other cultures. Includes an introduction to the discipline, history and methods of cultural anthropology.

SO 204. Cultural Anthropology II (2)

This course focuses on the function and interpretation of cultural arrangements and practices and their implications for working in a cross-cultural context.

SO 225. Issues of Developing Nations I (3)

A course designed to guide students in the study of under or lesser developed nations. Recognizing the issues are complex, the course covers the interrelatedness of political, cultural and economic development as well as the influences of religion, conflicts and special populations. The course is interdisciplinary in nature.

SO 226. Issues of Developing Nations Lab (1)

This lab is designed for students enrolled in SO 225 or SO 325. Labs will be a week of concentrated study and experience in one area including sociological, political, environmental, religious or economic issues impacting the people of the lesser developed nation. The lab occurs in the lesser developed country. **Co-requisite:** SO 225 or SO 325.

SO 325. Issues of Developing Nations II (3)

A course designed to allow students in an advanced study of under or lesser developed nations. Students will study the interrelated issues of political, cultural and economic development as well as the influence of religion, conflicts and special populations. Students will select a discipline in which she or he will complete in-depth study.

Prerequisite: SO 155 or EC 105 or PS 105.

SO 243. Social Problems in Modern Society (2)

An examination of the origin, development, and attempted solutions of some of the major problems confronting contemporary society. Sociological and Christian perspectives are utilized in analyzing and responding to problems of focus.

Recommended: SO 155. Offered alternate years.

SO 244. Population and Environment (2)

An examination of population-related, problems, planning and policy, economic growth, ecology and refugee issues from sociological, cross-cultural, and Christian perspectives **Recommended:** SO 155. Offered alternate years.

SO 252. Criminology (3)

A study of the causes and types of crime and deviance and of the classes and nature of offenders. Means of treating the offender and of prevention are also considered.

Recommended: SO 155 or SO 243. Offered alternate years.

SO 253. Juvenile Delinquency (3)

A study of the forms, causes and consequences of juvenile deviance. Means for treating the offender and of prevention are also considered. **Recommended:** SO 155 or SO 243. Offered alternate years.

SO 318. Race, Class and Ethnicity (3)

A study of the contemporary diversity of society with a focus on inter-group relations (e.g., assimilation, conflict, and pluralism.) Emphasis is placed on gaining an understanding of the multi-cultural nature of American society in comparison with other societies and on formulating a viable response. **Recommended:** SO 155 or SO 243.

SO 334. Sociology of the Family (3)

A study of the nature and diversity of marriage and family relationships and of perspectives for investigating and understanding the social issues and forces impacting them with the aim of clarifying standards and objectives. **Recommended:** SO 155. Offered alternate years.

SO 355. Sociology of Religion (3)

An examination of the changing role and function of religion for the individual and in society, with emphasis on understanding and responding to the forces conditioning the nature of this relationship. Offered alternate years. **Recommended:** SO155, 204, or 243.

SO 365. Methods of Social Research (3)

An introduction to social research and data analysis through the application of the scientific method to the description, analysis and assessment of social and socio-political phenomena. **Prerequisites:** Mathematical proficiency; 6 credits in sociology. Offered alternate years.

SO 396. Field Experience (1)

Students will have opportunity to observe and apply various sociological theories, methods, and perspectives under a plan devised in cooperation with the instructor and, in addition, may focus on a relevant social problem of concern. May be repeated for credit. **Prerequisite:** Instructor's permission.

SO 455. Social Psychology (3)

A study of the inter-relationships between individuals and their social environments. It introduces the student to the areas of interest, the methods of investigation, and some of the theories and findings of the field of social psychology. **Prerequisites:** 3 credits in sociology; 3 credits in psychology. (See PY 455.)

Course Descriptions

SO 472. Group Theory and Processes (4)

A study of historical and contemporary settings of groups as related to theoretical foundations of group work including experiential activities involving group dynamics. Lecture and laboratory. **Prerequisite:** PY 375 or SW 355. (See PY 472.)

SO 496. Internship (4)

An internship assignment in social research, community development, rural or urban planning, law, criminal justice, or social policy. Offered as a single course or as a block placement for a semester or summer. **Prerequisites:** 6 sociology credits plus permission of the supervising faculty member.

SO 498. Seminar in Sociology (3)

An in-depth study involving the sociological analysis and investigation of contemporary problems and issues with the aim of developing appropriate response strategies. **Prerequisites:** Instructor's permission plus 6 credits in sociology. Offered alternate years.

SPANISH (SP)

SP 101, 102. Elementary Spanish (4 each)

For students who wish to begin the study of Spanish. The acquisition of basic vocabulary, sounds and structures with emphasis on conversation. An introduction to Spanish and Hispanoamerican cultures.

SP 201, 202. Intermediate Spanish (4 each)

For students who have had at least two years of high school Spanish or one year of college Spanish. A refinement of basic skills and structure with continued emphasis on conversation and increasing emphasis on composition and reading. **Prerequisite:** SP 102 or equivalent.

SP 301. Advanced Conversation and Composition (4)

Extensive conversation with lesser emphasis on composition. Spanish-language media such as television and Internet provides or supplements topics for discussion and writing. Counts for cultural or linguistic credit. May be repeated for credit once. **Prerequisite:** SP 202; or, instructor's permission. Alternates with SP 322.

SP 322. Spanish for Business (4)

A study of language, forms, and culture for conducting business in the Hispanic world. Useful for students majoring in business or for the general student. Students who are Business Administration majors will consult with a faculty advisor from the Business Department for the field placement and conditions. **Prerequisite:** SP 202; or, instructor's permission. Alternates with SP 301.

SP 331. Hispanic Civilization (4)

Historical survey to the present with focus on varying themes from sociology, politics, religion and literature. The course alternates between focus on Hispanoamerica and Spain in coordination with SP 351 Survey of Hispanic Literature. May be repeated once for credit. **Prerequisite:** SP 202; or, instructor's permission. Offered yearly.

SP 341. Spanish Phonology (4)

A study of the phonetics and phonology of Spanish; includes an introduction to Spanish dialectology. Oral drill and analysis. **Prerequisite:** SP 201; or, instructor's permission. Alternates with SP 342.

SP 342. Introduction to Spanish Linguistics (4)

A study of the basics of phonetics, phonology, syntax, and lexicon of Spanish. **Prerequisite:** SP 201; or, instructor's permission. Alternates with SP 341.

SP 351. Survey of Hispanic Literature (4)

A survey of Spanish literature from the medieval or colonial times to the present. Includes the genres of poetry, drama, and novel. The course alternates between focus Hispanoamerica and Spain in coordination with SP 331 Hispanic Civilization. May be repeated once for credit. **Prerequisite:** SP 202; or, instructor's permission. Offered yearly.

SP 363. Teaching Spanish in the Secondary School (2)

Strategies appropriate to this subject field, instructional materials and tools, curricular structure common to this subject in the secondary school. Micro-teaching and other simulated experience is included. **Prerequisite:** Junior classification. **Co-requisite:** ED 351. (See ED 363.)

SP 394. Topics in Hispanic Culture, Literature or Linguistics. (4)

Topics of special interest in Hispanic culture (including history), literature, or linguistics. May be taught in Spanish or English. May be repeated for credit. **Prerequisite:** Instructor's permission if course is taught in Spanish.

SP 497. Senior Thesis (4)

A capstone experience involving the writing of a major research paper under the close supervision of a modern language faculty member. The paper is subject to multiple stages of criticism and rewriting. Required of all Spanish majors.

STUDY SKILLS COURSES (ST)

ST 111. Freshman Seminar (1)

Course Descriptions

A small-group seminar required of all freshmen. Students meet weekly with a faculty member to discuss readings. The seminars are designed to foster scholarly and personal interaction among students and to acquaint them with the values inherent in a liberal arts Christian education.

ST 121. College Study Methods (1)

Course content will include techniques for academic success at the university level with emphasis on the individual student's course work. Subjects to be included are time-management techniques, note-taking and listening skills, reading and critical thinking development, and essay and objective test taking tips. Topics of special interest to the individual student may also be included.

ST 131. Computer Applications - Introduction to the Internet (1)

A self-study course of introductory Internet concepts. This course will be graded Pass/Fail.

ST 132. Computer Applications - Introduction to Word (1)

A self-study course of introductory word processing concepts using Word. This course will be graded Pass/Fail.

ST 133. Computer Applications - Introduction to Excel (1)

A self-study course of basic spreadsheet concepts using Excel. This course will be graded Pass/Fail.

ST 134. Computer Applications - Introduction to Windows and MS-DOS (1)

A self-study course of the basics of Microsoft Windows and MS-DOS. This course will be graded Pass/Fail.

ST 135. Computer Applications - Introduction to Power Point (1)

A self-study course introducing Power Point. This course will be graded Pass/Fail.

ST 141. Reading Strategies (1)

A practical application of the strategies readers need to develop higher level reading and comprehension skills. Acquaints students with strategies for increasing speed, flexibility, vocabulary, and recognition of structure and organization in reading. May be repeated for credit.

ST 151. Mathematics Strategies (1)

An individualized study of mathematics emphasizing re-entry, review, or development of mathematics competency in new areas. May be repeated for credit.

ST 161. English Mechanics and Usage (1)

An individualized study of English writing conventions and parts of speech, emphasizing writing skills necessary to develop effective prose.

THEOLOGY (TH)**TH 211. Introduction to Christian Theology (4)**

A study of the essential doctrines of the Christian faith in systematic form. The underlying foundation will be biblical faith, with special emphasis given to the interpretation of the Wesleyan-Arminian tradition. Attention will also focus on the historical development of such doctrines as the Trinity, Christology, and the doctrines of sin and salvation.

TH 353. History of the Wesleyan-Holiness Tradition (2)

A study of the historical development of the Wesleyan-Holiness tradition, including its theological sources and influences in the early church to late Reformation period, the development of Methodism under the leadership of John Wesley, and the extension of Methodism and the Holiness Movement in America through the 19th century. Particular focus will be given to theological developments in historical context.

Prerequisites: BL 111, TH 211. (See CH 353.)

TH 354. Christian Holiness (2)

A study of the doctrine of entire sanctification, or Christian perfection, stressing its Biblical and historical background, and giving particular attention to its development in the writings of John Wesley and the Wesleyan holiness tradition. **Prerequisites:** BL 111, TH 211.

TH 356. World Religions: Asian Traditions (2)

A historical, descriptive, and theological examination of the great religious traditions originating in Asia, including Hinduism, Buddhism, Taoism, Confucianism, and Shintoism. **Prerequisites:** BL 111, TH 211.

TH 357. World Religions: Western Traditions (2)

A historical, descriptive, and theological examination of the dominant Western monotheistic traditions of Judaism, Christianity, and Islam. Special attention will be given both to each tradition's uniquenesses as well as to their historical and theological connections. A brief study of Zoroastrianism will be included. **Prerequisites:** BL 111, TH 211.

TH 394. Topics in Theology (1-4)

An examination of some phase of theology not covered in other courses. May be repeated for credit. **Prerequisites:** BL 111, TH 211.

Course Descriptions

TH 452. Theology of the Church (2)

An advanced study of Ecclesiology, the nature and mission of the church. The subjects include the relationship of church and culture, and the relationship of church and clergy. The course will review the historical development of Ecclesiology as well as reflect on its contemporary form and function. **Prerequisite:** TH 211.

TH 453. Christian Theology I (3)

An advanced systematic study of the Christian faith from a Wesleyan perspective, with particular reference to historical development and contemporary understanding. The subjects include Theological Methodology, Revelation and Inspiration, the Trinitarian God, Humanity, and Sin. **Prerequisites:** Two courses in theology; or, instructor's permission.

TH 454. Christian Theology II (3)

An advanced systematic study of the Christian faith from a Wesleyan perspective, with particular reference to historical development and contemporary understanding. The subjects include Christology, Soteriology, Pneumatology, Christian Ethics, and Eschatology. **Prerequisites:** Two courses in theology, or instructor's permission.

TH 498. Seminar in Theology (1-4)

An advanced study of a theological topic. Topics will be announced as the course is scheduled, but will, in general, deal with the great personalities and issues of theology. May be repeated for credit. **Prerequisite:** Instructor's permission.

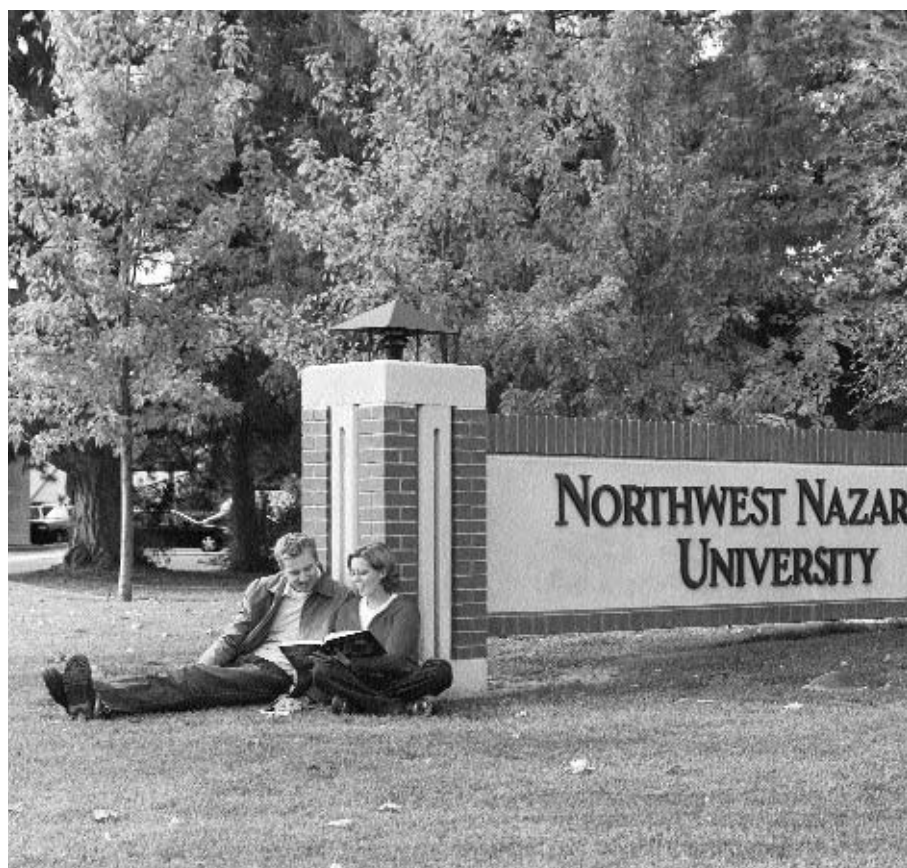
STEP PROGRAM

TH 212. Survey of Christian Theology (3)

A study of the foundational doctrines of the Christian faith from a biblical perspective with special emphasis given to the Wesleyan-Arminian tradition. **Prerequisite:** Admission to the STEP Program.

TH 311. Studies in Theology (3)

An in-depth study of a selected theological topic. The specific focus of the class will be determined by the instructor and announced as the course subtitle. **Prerequisite:** Admission to the STEP Program.



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Sciences: Stephen K. Shaw, Dean

Art and Music: Jim Willis, Chair

Communication Studies:

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English: Gaymon L. Bennett, Chair

History and Political Science:

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Modern Languages:

Newell Morgan, Chair

Psychology and Sociology:

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School of Business:

Ronald R. Galloway, Dean

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Graduate Business (MBA)

Acting Program Leader:

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School of Education, Social Work, and
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Placement: Ronald E. Manley, Dir.

Teacher Education:

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Social Work: Jerry D. Hull, Chair

Graduate Programs

Counselor Education:

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Community Counseling

Marriage and Family

School Counseling

Organization

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Curriculum and Instruction,
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School of Health and Science:

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Biology:
Thomas E. Mangum, Chair
Chemistry: Jennifer Chase, Chair
Kinesiology:
Scott Armstrong, Chair
Mathematics and Computer
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Edward C. Korntved, Chair
Nursing: Judith P. Stocks, Chair
Physics: Dan Lawrence, Chair

School of Theology and Christian

Ministries:

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Religion: Wendell Bowes, Chair

Ministerial Development:

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Graduate Ministry Program Leaders

Master of Ministry: Gary L. Waller

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Church Resource Services:

Jim Stocks, Director

Online Theological Resources:

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Center for Professional Development:

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Professional Development

Summer School-Undergraduate

Travel Tours

Concurrent Credit

Express Education

Center for Business Leadership

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-
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ANNOTATED ACADEMIC CALENDAR

2003-2004

FALL SEMESTER (FA03)

Aug 21-26	Thurs-Tues	New Student Orientation, Testing, and Registration
Aug 25-26	Mon-Tues	Returning Student Registration
Aug 27	Wed	Classes Begin: Semester and Quad I
Sept 1	Mon	Last Day to Add a Semester and Quad I Class
Sept 5	Fri	Last Day to Drop a Semester and Quad I Class Without a "W"
Sept 26	Fri	Last day to Withdraw from a Quad I Class with a "W"
Oct 13	Mon	Student Holiday
Oct 16-21	Thur-Tue	Final Exams for Quad I
Oct 21	Tues	End Quad I Classes
Oct 23	Thurs	Quad II Classes Begin
Oct 28	Tues	Quad I and Semester Mid-Term Grades Due
Oct 28	Tues	Last Day to Add a Quad II Class
Nov 3	Mon	Last Day to Drop a Quad II Class Without a "W"
Nov 7	Fri	Last Day to Drop from a 14-15 week Semester Class With a "W"
Nov 24	Mon	Last Day to Withdraw from a Quad II Class With a "W"
Nov 27-29	Thurs-Sat	Thanksgiving/Homecoming
Dec 12	Fri	Last Day of Undergraduate Classes
Dec 15-18	Mon-Thurs	Final Exams for Semester and Quad II Classes
Dec 23	Tues	Grades Due

SPRING SEMESTER (SP04)

Jan 12-13	Mon-Tues	Check-In/Registration and Testing
Jan 14	Wed	Classes Begin: Semester and Quad I
Jan 19	Mon	Martin Luther King Day
Jan 20	Tue	Last Day to Add a Semester/Quad I Class
Jan 26	Mon	Last Day to Drop a Semester/Quad I Class Without a "W"
Feb 16	Mon	Last Day to Withdraw from a Quad I Class with a "W"
Mar 4-9	Thur-Tues	Final Exams for Quad I
Mar 9	Tues	End of Quad I Classes
Mar 11	Thurs	Quad II Begins
Mar 16	Tues	Last Day to Add a Quad II Class
Mar 16	Tues	Quad I and Semester Mid-Term Grades Due
Mar 20-28	Sat-Sun	Semester Break
Mar 29	Mon	Last Day to Drop a Quad II Class Without a "W"
Apr 2	Fri	Last Day to Drop from a 14-15 week Semester Class With a "W"
Apr 12	Mon	Student Holiday (Easter)
Apr 20	Tues	Last Day to Withdraw from a Quad II Class with a "W"
May 7	Fri	Classes End
May 10-13	Mon-Thur	Final Exams for Semester and Quad II Classes
May 14	Fri	Baccalaureate
May 15	Sat	Commencement
May 18	Tues	Grades Due

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