2015-2016 Northland Catalog

Welcome

This online catalog can help you quickly locate and save details about undergraduate programs. Whether you are a prospective student or already enrolled, you can easily see what Northland College has to offer.

About the Northland Catalog

Students are assigned to the catalog that is in force at the time of their first entry into Northland College. Students entering in the fall of a new catalog cycle are assigned to the new catalog. For example, a student entering in September of 2011 is assigned to the 2011-12 catalog, not the 2009-11 catalog.

Students wishing to declare a major or minor in a catalog newer than the one to which he or she is assigned may petition the Academic Standings committee for permission to move forward into a newer catalog. Once a student adopts a new catalog, all rules and policies in the newer catalog go into effect for that student. Students are not allowed to move backward to adopt an older catalog.

Sometimes it becomes necessary for the faculty in a department to make changes to a major or minor as it is published in the official catalog. This may be due to a correction of a typographical error or because of changing dynamics within departments. These updates are not made in the original catalogs as they appear here. Changes are processed and made public through Academic Council and are recorded by the Registrar's Office. These changes appear on degree audit sheets as applicable. Students should check with the department chair person to help determine how to meet the requirements of any catalog changes that may affect his or her status. Please do not hesitate to ask your advisor or someone in the Registrar's Office if you have any questions relating to academic policy or your academic progress.

Disclaimer

Every effort has been made to assure the accuracy of the information in this publication. However, provisions of this publication are subject to change without notice and do not constitute an irrevocable contract between any student or applicant for admission and Northland College. The College is not responsible for any misrepresentation of its requirements or provisions that might arise as a result of errors in the preparation of this publication.

Courses

Art

ART 106 - Design Studio

3 Credits This hands-on course examines the fundamental elements and principles of two-dimensional and three-dimensional composition and encourages students to explore traditional methods and discover new solutions to visual problems. This is a foundational course to all fields of visual study.
Course Fee.

ART 111 - Drawing I

3 Credits Students explore the human impulse to make a mark on the world through an active seeing and recording of the world on a two-dimensional surface. By developing skills that allow them to work from direct observation, students establish a foundation for personal imagery that prepares them to work with a variety of techniques and media.
Course Fee.

ART 210 - Painting I

3 Credits Students experience the capacities of oil and/or acrylic media on canvas. Students complete a series of studio exercises focused on color theory and direct observation leading to a personal aesthetic.
Course Fee.
Prerequisites: ART 111

ART 212 - Drawing II

3 Credits Students continue exploring and refining skills presented in Drawing I with more emphasis on the relationship between form, subject matter, and content leading to intelligent, self-directed creation. Students will be introduced to abstraction as a vehicle for expressive mark making.
Course Fee.
Prerequisites: ART 111

ART 220 - Ceramics I

3 Credits This course introduces students to the basic forming processes, throwing on the potter's wheel, glazing, and decorating of ceramic ware. Students acquire a working understanding of clay and glaze formulation, as well as firing methods.
Course Fee.

ART 222 - Ceramics Handbuilding

3 Credits This ceramics course focuses on off-wheel forming methods that do not rely on the potter's wheel. Students practice structural techniques that will enable them to create unique and singular forms of expression in the clay medium.
Course Fee.

ART 225 - Introduction to Film

3 Credits This course provides an introduction to American cinematic arts, its production methods, and broader cultural implications. Students develop a deeper appreciation and critical understanding of motion pictures by exploring styles, structures, techniques, aesthetic, and cultural implications of American films.
Connections Discipline: Humanities

ART 229 - Ceramics: History & Methodology

3 Credits This course is a slide-illustrated survey of Ceramics from the 7th century to our contemporary times. Students study ceramic works from Asia, the Middle East, Europe and the Americas. This introduction into ceramic history serves as an inspiration for the creation of a ceramic piece.
Course Fee
Connections Discipline: Humanities

ART 230 - Art History Ancient to Medieval

3 Credits This course is a slide-illustrated survey of the architecture, painting, sculpture, and minor arts starting with prehistoric and ethnographic art, and ending with 14th century international painting style. Students study Egyptian, Greek, Roman, Early Christian, Islamic, Medieval, Romanesque, and Gothic styles.
Connections Discipline: Humanities

ART 231 - Art History Renaissance to Modern

3 Credits This course is a slide-illustrated survey of art from the 15th century to the dawn of the modern age. Students study Renaissance, Baroque, Neoclassical, Romantic, Impressionist, and American wilderness landscape styles.
Connections Discipline: Humanities

ART 232 - Contemporary Art History

3 Credits This course is a slide-illustrated investigation into the varied and competing trends in the visual arts from Impressionism to the 21st century. Students study cubism, fauvism, expressionism, surrealism, abstract expressionism, pop art, minimalism, conceptual art, post-modernism, and artists working in the natural environment.
Connections Discipline: Humanities

ART 262 - Digital Photography I

3 Credits This studio course introduces students to the basic principles and applications of digital photography as a medium, a skill-set, and an integral part of today's digital literacy needs. Topics covered include capturing images using digital cameras while emphasizing the manipulation of camera controls, exposure, lighting, on-and-off camera flash, essential imaging tactics, digital workflow for photography, print, web and image

storage and archival. Students are required to have a digital SLR camera.
Course Fee

ART 270 - Printmaking: Relief and Intaglio

3 Credits The focus of this studio class is on relief and intaglio processes including woodcut, linoleum cut, drypoint, hardground, softground, and aquatint. Lectures and readings put printmaking in historical and contemporary contexts to help students achieve personal aesthetic goals. Low toxic processes are used when possible.
Course Fee.
Prerequisites: ART 111

ART 271 - Printmaking: Screen Printing and Lithography

3 Credits The focus of this studio class is on screen printing and lithographic processes including hand-cut stencils, photo stencils, stone and polyester plate lithography. Lectures, and readings put printmaking in historical and contemporary contexts to help students achieve personal aesthetic goals. Low toxic processes are used when possible.
Course Fee.
Prerequisites: ART 111

ART 280 - Graphic Design I

3 Credits This foundational course in graphic design guides students in developing and expanding their vocabularies in visual communication. Utilizing basic design elements and principles students explore graphic solutions for communication problems through digital and traditional tools. Emphasis is placed on research and idea generation as students learn to analyze and discuss their work as well as that of others, as they become familiar with the theoretical and practical aspects of the graphic design process. Creative studio practice is combined with lectures, readings, and software training.
Course Fee
Prerequisites: ART 106 and ART 111

ART 282 - Interactive Design I

3 Credits This course is an introduction to concepts, methods, and technologies utilized in the design of interactive media. Students study user and site requirements and address design problem solving within screen-based projects developed for various content, needs, and audiences. Creative studio practice is combined with lectures, readings, and software training
Course Fee
Prerequisites: ART 280

ART 285 - Typography

3 Credits This class explores creative, historical, theoretical, and applied principles of type. Creative projects and exercises guide students to explore the impact of choosing typefaces, their combinations, and the expressive possibilities of type. Students also develop skills to enhance, clarify, and support meaning through typographic choices. Creative studio practice is combined with lectures, readings, and software training.
Course Fee
Prerequisites: ART 106

ART 306 - Art Collaborations with Nature

3 Credits Students create environmental and ecological art using natural materials, responding to nature and mitigating environmental problems. After surveying examples of art from indigenous peoples to recent ecologically restorative works, students create outdoor, ephemeral works of art using nature itself.
Connections Discipline: Humanities or Experiential
Prerequisites: ART 106, ART 111, or ART 260 and Junior Standing recommended

ART 320 - Ceramics II

3 Credits This course is a continuation of ART 220. Students further develop their knowledge, skills, and aesthetic awareness in the ceramic arts. They expand their basic knowledge of techniques and acquire additional information regarding clay and glaze formulation as well as kiln firing.
Course Fee.
Prerequisites: ART 220

ART 340 - Alternative Photographic Processes

3 Credits This course explores a variety of alternative photographic processes, including pinhole and toy cameras, hand-applied emulsions, and other processes. Using historical context and hands-on experimentation with alternative photo processes, students design, review, and make images.
Course Fee.
Prerequisites: ART 260 or Instructor Consent

ART 370 - Printmaking II

3 Credits Students choose one of the processes introduced in ART 270 (relief, serigraphy, lithography, or intaglio) and explore it more deeply. Coursework includes an emphasis on color registration, autographic, photographic, and digital processes that result in a personal creative statement. (This course may be repeated for credit with instructor approval.)
Course Fee.
Prerequisites: ART 270 or ART 271

ART 380 - Graphic Design II

3 Credits This intermediate course in graphic design builds on the skills and concepts learned in Graphic Design I. Students have an opportunity to work on design problems with professional clients. Creative studio practice is combined with lectures, readings, and software training.
Course Fee
Prerequisites: ART 280

ART 382 - Interactive Design II

3 Credits This advanced interactive design course allows students to put their understanding and training to use by working with clients to solve real world design problems. Creative studio practice is combined with lectures, readings, and software training.
Course Fee
Prerequisites: ART 282

ART 385 - Graphic Design History

3 Credits Students explore the history and theory behind the evolution of graphic design, with a particular focus on the past 100 years.
Course Fee
Prerequisites: ART 280

ART 402 - Senior Exhibition

1 Credits Students install, promote an exhibition of their work, and create a statement reflective of their development as a Northland College art student.
Prerequisites: Instructor Consent

ART 403 - Senior Seminar

3 Credits Students develop standards for aesthetic judgments and gain insight into their own creative potential through the study and discussion of the theories of the character and functions of art and artists' perceptual, conceptual, and motivational processes. Students learn guidelines for portfolios, resumes, and professional display and documentation of artwork.
Course Fee.
Prerequisites: Art major or minor and Junior or Senior Standing

ART 420 - Ceramics III

3 Credits This is a continuation of ART 320. Students further develop their knowledge, skills, and aesthetic awareness in the ceramic arts. With an emphasis in individual expression, students will continue to expand their knowledge of ceramic techniques, firing, and glaze formulation.
Prerequisites: ART 320

ART 470 - Printmaking III

3 Credits Students continue to explore and begin to develop technical mastery of a printmaking process that they worked with in ART 370 Printmaking II. Students also develop an understanding of printmaking history in fine art and of its relationship to commercial processes.
Course Fee.
Prerequisites: ART 370

ART 480 - Graphic Design III

3 Credits This advanced course in graphic design builds on the skills and concepts learned in Graphic Design II while working with clients to solve real world design problems. Creative studio practice is combined with lectures, readings, and software training.
Course Fee
Prerequisites: ART 380

Biology

BIO 115 - Concepts of Biology

4 Credits Students learn the basic principles of biology, from basic cell chemistry, energetics, and genetics, to the broader environmental topics of evolution and ecology. The laboratory focuses on the development of skills needed by biological scientists and emphasizes analytical thinking.
Course Fee.
Connections Discipline: Natural Science

BIO 128 - Natural History and Conservation in the Lake Superior Watershed

4 Credits Part of the Superior Connections Program, this course introduces students to the natural history, conservation, and restoration of the region's natural resources. Students begin by studying the general natural history of the Lake Superior region, and then focus on regional conservation biology issues. The course concludes with an examination of restoration from ecological, economic, and philosophical perspectives.
Course Fee
Connections Discipline: Natural Science
Corequisites: XNN 115 and GSC 112

BIO 208 - Anatomy

4 Credits This course provides an overview of mammalian anatomy, with an emphasis on human anatomy. In the laboratory, students engage in dissections and work with models in order to apply what they learn in lecture.

Course Fee
Prerequisites: BIO 115

BIO 220 - Plant Science

4 Credits This course covers topics in plant morphology and development, along with an introduction to plant physiology. There is an emphasis on the phylogenetic relationships of plant types.
Course Fee.
Prerequisites: BIO 115.

BIO 222 - Woodland Plants of Northern Wisconsin

4 Credits Students participate in a taxonomic study of plants commonly found in northern Wisconsin, with a focus on early flowering shrubs, spring wildflowers, and ferns.
Course Fee.
Prerequisites: BIO 115 or BIO 128

BIO 225 - Aquatic Invertebrates

4 Credits This course is a survey of the natural history, ecology, and taxonomy of freshwater invertebrates, with an emphasis on local animals. Students are required to collect invertebrates, prepare a specimen collection, and gain proficiency in identifying animals by sight and keying.
Course Fee.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128

BIO 231 - Paleobiology

4 Credits In this course students explore the history of life on earth, the interplay between geological and biological processes, and the tools scientists use to study the fossil record. There is one, multi-day field trip to a paleontological museum.
Course Fee
Prerequisites: BIO 115 or BIO 128

BIO 234 - Ecology

4 Credits This course is an introduction to the study of ecology, including the topics of energy flow, trophic structure, nutrient cycles, population dynamics, and adaptations. Students experience the study of ecology through numerous local field experiences leading to the collection and analysis of data.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: BIO 115 or BIO 128

BIO 235 - Biology of Organisms

4 Credits This course introduces students to organismal biology, specifically focusing on plants and animals. Major topics include basic anatomy, physiology and phylogenetic relationships.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: BIO 115 or BIO 128

BIO 238 - Cell Biology

4 Credits Students study life at the cellular and molecular levels. Lecture topics include: structure of biological molecules, metabolism, gene expression, cell signaling, the cell cycle, and cell death. Additional topics include structure, function, and dynamics of cellular components such as membranes and the cytoskeleton. The biology laboratory emphasizes cell visualization and acquisition of skills in basic molecular techniques.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: BIO 115 or BIO 128

BIO 242 - Ichthyology

4 Credits In this course students study the biology, ecology, taxonomy, and management of fish, with a focus on Great Lakes and northern Wisconsin fishes.
Course Fee.
Prerequisites: BIO 115 or BIO 128

BIO 244 - Field Ornithology

4 Credits In this field-intensive course, students learn to identify birds of northern Wisconsin by sight and sound. To maximize exposure to birds in the area, the course includes daily field excursions to a variety of habitats. Discussion of the natural history of birds is also an integral part of the course.
Course Fee.
Connections Discipline: Natural Science or Experiencial
Prerequisites: BIO 115 or BIO 128

BIO 245 - Mammalogy

4 Credits Students study the biology of mammals with an emphasis on evolution, population structure, reproduction, and physiological adaptations. Lab sessions focus on morphology and general taxonomy of local mammals.
Course Fee.
Prerequisites: BIO 115 or BIO 128
Corequisites: BIO 234

BIO 246 - Ornithology

4 Credits This course introduces students to avian anatomy, physiology, behavior, ecology, systematic, and conservation. The lab surveys the major orders of birds. Local field trips are required.
Course Fee.
Prerequisites: BIO 115 or BIO 128

BIO 328 - Vegetative Communities of Northern Wisconsin

4 Credits Students study the community structure, taxonomy, and natural history of woody plant species which comprise the plant communities in the Upper Great Lakes Region. Lecture and discussions are complemented by weekly field trips to various plant communities.
Course Fee.
Prerequisites: BIO 234

BIO 330 - Genetics

4 Credits This course integrates the classical and molecular principles of genetics. Topics include transmission, population, conservation, and quantitative genetics, as well as gene expression, regulation, and mutation. Problem solving is emphasized.
Prerequisites: BIO 234

BIO 331 - Microbiology

4 Credits Students develop a solid background in microbiology and study the physiology, ecology, molecular biology, and phylogeny of microbial organisms, as well as the impact of these organisms on human health and the environment. In the laboratory, students acquire skills in culturing, characterizing, and quantifying microorganisms.
Course Fee.
Prerequisites: BIO 238

BIO 332 - Immunology

3 Credits This course provides an overview of the immune system of vertebrates, with an emphasis on human immunology. Students study cellular and humeral responses, antibody diversity, evolution of the immune system, application of immunological techniques to ecological problems, and vaccines.
Prerequisites: BIO 238

BIO 343 - Biology of AIDS

3 Credits This course provides a survey of the biology of HIV infection. Topics include the retrovirus life cycle, the impact of HIV on the immune system, viral transmission, diagnosis of HIV and symptoms of AIDS, and epidemiology of the disease. Students also

discuss the social and political dimensions of the AIDS epidemic and present on a topic of their choice.
Prerequisites: BIO 115 or BIO 128

BIO 360 - Vertebrate Physiology

4 Credits This course focuses on the fundamental principles of animal physiology, such as circulation, digestion and respiration. It also emphasizes the comparative approach and interactions of the organism with its environment.
Course Fee.
Prerequisites: BIO 234

BIO 370 - Applied Conservation Biology

3 Credits Part of a Round River field experience. This course introduces students to the application of scientific principles to inform interdisciplinary protection and management of biological diversity. Topics include population ecology, landscape ecology, community ecology and genetics, as well as social, economic and community-related aspects of conservation.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128 and Admittance to the Round River Program

BIO 371 - Natural History Methodology and Application

3 Credits Part of a Round River field experience. This course provides an overview of the physical and biological features of a specified habitat with an emphasis on discerning patterns and processes on the landscape. Students adhere to a rigorous field journal system to record and understand the flora and fauna of a place, and make regular use of diagnostic field guides.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128 and Admittance to the Round River Program

BIO 372 - Biological Field Methods

3 Credits Part of a Round River field experience. This course introduces students to a variety of methodologies for the study of plant and animal populations. Topics include field journal techniques, ecological field research methodologies and rationales, and field safety and risk management.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128 and Admittance to the Round River Program

BIO 373 - Introduction to Ecological Models

3 Credits This course introduces students to the use of ecological models to understand ecological phenomena, as well as to the implications of management actions for the conservation of biological diversity. Experiential.

Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128

BIO 374 - Tropical Ecology and Conservation

3 Credits Part of a Round River field experience. This course provides an introduction to the ecological complexity of tropical forests and to the natural history, evolutionary biology, and conservation status of the animals, plants, and ecosystems of the Neotropics. This course also examines major threats to biodiversity, the main conservation problems of tropical environments, as well as current alternatives to the destruction of tropical forest.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128 and Admittance to the Round River Program

BIO 375 - Grass Paramo Pyro Vegetation

3 Credits This course focuses on the theory that the paramo habitat of the high elevation grasslands of the Andes Mountains is a landscape derived from human use. Students explore issues of fire ecology, climate history, and the co-evolution of flora and fauna. Experiential.
Connections Discipline: Experiential
Prerequisites: BIO 115 or BIO 128

BIO 409 - Evolutionary Biology

3 Credits This course covers evolution from a historical point of view, both biologically and conceptually. Students study the various mechanisms by which populations evolve, such as sex linkage, mutation rates, selection, and polymorphism.
Course Fee.
Prerequisites: BIO 330

BIO 410 - Conservation Biology

3 Credits Students build on ecological principles learned in other courses, with a particular emphasis on how to apply more advanced ecological theory and concepts in natural ecosystems. Primary goals of the course include understanding 1) how natural ecological systems behave in a human dominated world and 2) methods conservation biologists use to maintain and/or enhance biological diversity. Topics include population genetics, population biology, community ecology, behavioral ecology, ecosystem ecology, and conservation policy.
Prerequisites: BIO 234

BIO 420 - Methods in Molecular Biology

4 Credits Students examine the laboratory techniques used to study how higher organisms maintain and express genetic information. The course emphasizes model

organisms and their responses to environmental stimuli; topics include DNA and RNA isolation, PCR, gene cloning and manipulation, analysis of gene expression, conservation genetics, and bioinformatics. Laboratory only.
Course Fee.
Prerequisites: BIO 234 or BIO 238

BIO 425 - Eco League Field Experience

4 Credits This advanced field course brings together students and faculty from each of the institutions of the EcoLeague consortium in an interdisciplinary, field-based inquiry into relationships between human and natural systems. The course will focus on issues relevant to the particular landscapes in which it is offered, which will vary from year to year. Students must apply to participate and will be selected by a panel of faculty. Competence in writing and understanding of fundamental ecological principles is expected.
Course Fee.
Connections Discipline: Experiential
Prerequisites: BIO 234

BIO 460 - Animal Behavior

3 Credits This course introduces students to major concepts and theories in animal behavior. Topics include neural and hormonal mechanisms, communication, foraging and reproductive behavior, mating systems, and sociality. The course is grounded heavily in an evolutionary approach to these topics.
Prerequisites: BIO 234

BIO 473 - Limnology

4 Credits Students study the functional relationships of freshwater communities as they are affected by their physical, chemical, and biological environments. Students perform limnological studies using techniques gained through field and lab experiences.
Course Fee.
Prerequisites: BIO 234 and CHM 103, CHM 105, CHM 108, or CHM 110.

BIO 480 - Biology Senior Seminar

3 Credits In a seminar format, students discuss primary literature, develop a research proposal on a topic of their interest, and give an oral presentation on their proposal. Students may conduct research based on their proposal by registering for the biology capstone.
Prerequisites: Biology major and Senior Standing

Business

BUS 120 - Quantitative Methods

3 Credits Problem-solving approach to systems of equations, matrix algebra, mathematics of finance and optimization techniques. Modeling applications in the managerial and social sciences. Recommended three years of high school mathematics.
Connections Discipline: Quantitative Reasoning

BUS 168 - Technology and Communication

3 Credits This project-based course introduces students to contemporary business issues surrounding communication and technology. Students build a basic technical vocabulary to better understand current computing technology, as well as to develop computer literacy skills to adapt to emerging technologies in the global marketplace. Students enhance reading, writing, computing, professional communication, and reasoning skills and apply them to the business environment.

BUS 222 - Fundamentals of Accounting

4 Credits Students acquire background in accounting, including treatment of sole proprietorship, partnership, and corporate forms of business organization. The course emphasizes accounting procedures used in interpreting, analyzing, and evaluating financial statements. Topics include accounting for assets, liabilities, owners' equity, and merchandising concerns as well as preparation of the four basic financial statements.

BUS 226 - Essentials of Economics

4 Credits This course combines the basic aspects of macroeconomics and microeconomics to develop the fundamental skills of economic thinking. Students examine the relevance of economics to society and the interaction between politics and economics. Students complete the course understanding that economics is neither business nor finance but that knowledge of economics is vital to understanding these fields.
Connections Discipline: Social Science

BUS 228 - Marketing Management

3 Credits Students study basic marketing principles and functions as well as competitive, legal, economic, and social environments and their effects on strategic planning, analysis, and decision making. Topics emphasized include market segmentation, product development and management, distribution, promotion, and pricing strategies. The focus of the course is on the application of marketing concepts in businesses and non-profit organizations and the construction of a strategic marketing plan.
Connections Discipline: Social Science

BUS 229 - Small Business Management

3 Credits Students study practical approaches to the organization and management of a small business or non-profit organization. Major areas of study include starting,

financing, managing, and operating a small business or non-profit organization. The focus of the course is on the application of small business management concepts and the construction of a small business plan.
Connections Discipline: Social Science

BUS 232 - Principles and Practice of Management

3 Credits Students learn how to achieve desired results through efficient utilization of human and material resources in a profit or non-profit setting. The course emphasizes the history of management and the functions of planning, organizing, staffing, directing, and controlling enterprises.
Connections Discipline: Social Science
Prerequisites: Any 200-level BUS course

BUS 235 - Introduction to Sustainable Business

3 Credits This course presents a study of the Triple Bottom Line concept; organizational profitability, environmentalism, and social responsibility. This course explores the relationship between businesses, the community, and managing the future to achieve environmental quality. It also examines the principles and practices of the sustainable organization. Liberal Education: Environmental Perspectives.
Connections Discipline: Social Science

BUS 237 - Environmental Marketing

3 Credits This course introduces general principles of marketing within the context of environmentally focused organizations. Students learn to develop integrated marketing plans that are targeted at enhancing an organization's market effectiveness through environmentally responsive marketing mix.
Prerequisites: Sophomore standing

BUS 288 - Ethics and Business

3 Credits The elements of ethics relevant to business organization. The identification and analysis of moral issues facing managers and employees. Ethical decision-making for managers, conflict of interest, discrimination, product safety, and advertising. Social responsibility of business. Satisfies the religion and philosophy liberal education requirement for Business Economics majors.
Connections Discipline: Humanities
Prerequisites: Sophomore Standing or Instructor Consent

BUS 312 - Economics for Managers

3 Credits Students study the decision-making processes that involve the economic activities of a firm. They develop tools and techniques for generating cost, demand, and other information that contributes to decision making. Specific topics include consumer

behavior, production, cost and pricing analysis, and market structure.
Prerequisites: BUS 226 and BUS 120 or MTH 107

BUS 326 - Global Business Management

3 Credits Students explore and analyze internal and external factors that affect a global business enterprise. The course focuses on the development of necessary changes and strategies needed in accounting, finance, marketing, management, and production for a business to be competitive in the global marketplace. Topics presented emphasize profit-making businesses, but students also study the management of non-profit organizations in other cultures and countries.
Prerequisites: Any 200-level BUS course

BUS 330 - Managerial Finance

3 Credits Students study the theory and practice of financial management. Topics include asset management, internal financing, short-term and intermediate financing, capital budgeting, and risk analysis.
Prerequisites: BUS 222, BUS 226, and MTH 107 or BUS 120

BUS 331 - Legal Environment of Business

3 Credits Students survey the legal environment in which businesses and non-profit organizations must operate. The course emphasizes the formation, implementation, and results of the many legal issues that affect business and non-profit organizations. Topics include regulation of commerce and competition, labor-management relations, contracts, consumerism, environmental protection, formation of businesses, mergers, and acquisitions.
Prerequisites: Any 200-level BUS course

BUS 338 - Human Resource Management

3 Credits Students focus on the various functions of HRM in profit and non-profit organizations. Topics studied include selection, training, recruiting, developing employees, wage and benefit management, unions and employee relations, performance appraisal, and employee law.
Prerequisites: BUS 232 and Junior Standing

BUS 342 - Business and Public Policy

3 Credits Students examine how changes in the business environment affect business organizations and how organizations respond to such changes through public issue and crisis management, public policy strategies, and social responsibility, with an ultimate objective of aligning with the changes in the external business environment.
Connections Discipline: Social Science
Prerequisites: BUS 344, BUS 346, or Junior or Senior Standing

BUS 344 - Ethical Leadership

3 Credits This course examines business behavior in the context of moral philosophy. The course emphasizes philosophical theories of morality and relates these theories to leadership and decision making in business organizations.
Connections Discipline: Social Science
Prerequisites: IDS 105

BUS 346 - Social Entrepreneurship

3 Credits This course is structured around the general field of social entrepreneurship, business structures that social entrepreneurs typically follow in starting as well as managing a social enterprise. Students examine leadership characteristics of social entrepreneurs, how social enterprises are sustained financially, and how social entrepreneurs create and spread innovation and social change.
Prerequisites: BUS 232

BUS 358 - Innovation and Creativity

3 Credits Students develop a conceptual and applied understanding of organizational innovation by examining the institutional contexts that foster or impede innovation. Students also become familiar with the key organizational characteristics associated with innovation and creativity applicable to both for and not-for-profit organizations. Ultimately, students are prepared to manage innovation and foster creativity within organizations.
Prerequisites: Junior Standing

BUS 359 - Entrepreneurship

3 Credits The course is designed to stimulate entrepreneurial thinking among students and help them recognize opportunities that can be converted into successful ventures using the principles and best practices of management. Students will learn application of marketing, finance, ethics, and human resource concepts. Special emphasis is placed on providing hands-on experience of developing comprehensive business plan.
Connections Discipline: Social Science
Prerequisites: Junior Standing

BUS 360 - Grant Writing

3 Credits In this introductory course, students will learn grant writing basics. Students will develop a program in an area of personal interest; practice pre-writing exercises; write sections of a proposal and a letter of inquiry; and prepare budgets. The emphasis in the course is on grant writing for program support, program development, and operating grants. Writing research and construction grants are touched on but not discussed in depth.
Prerequisites: Junior Standing or Instructor Consent

BUS 361 - Organizational Behavior

3 Credits Students examine different types of leadership skills used to resolve organizational problems and to achieve the goals of the organization. The behavioral sciences are stressed, with emphasis on leadership and motivation theories. Includes the principles, concepts, and processes that interpret human relations in management at the individual and organizational levels.
Connections Discipline: Social Science
Prerequisites: Junior or Senior Standing

BUS 362 - Non-Profit Management

3 Credits The course will help students learn about the macro-environment surrounding the non-profit sector. By examining case studies drawn from social cause organizations as well as from arts and culture-promoting organizations, students will learn concepts and best practices for managing a successful non-profit organization. This course will help prepare students for managerial careers in the non-profit sector.
Prerequisites: Junior Standing or Instructor Consent

BUS 383 - Consumer Behavior

3 Credits Consumer and buyer behavior characteristics and theories as they relate to marketing, management, planning, analysis and control. Explanations of how demographic, cultural, psychological processes, and socioeconomic differences affect consumption. The implications of the consumer decision-making process on the marketing mix variables.
Connections Discipline: Social Science
Prerequisites: BUS 228

BUS 415 - Multicultural Aspects of Organizational Development

4 Credits Students acquire knowledge and skills that increase their intercultural competence, preparing them to be effective managers of diverse populations and in different organizational cultures. The course focuses on multicultural aspects of organization development practice and organizational culture issues through a business lens.
Prerequisites: BUS 338, BUS 361, or BUS 429

BUS 429 - Managing People and Conflict Resolution

3 Credits Students study the practical application of management training techniques to the management of people's behavior in the workplace. Students participate in interviews as interviewer, interviewee, and critic. The course emphasizes the use of reinforcement theory and methods of giving critical feedback using performance appraisals.
Prerequisites: BUS 232 and PSY 110

BUS 441 - Corporations and Activism

3 Credits Students examine why activist groups have relatively limited success in changing business behavior. As such, the focus of this course is to analyze activists' campaigns and corporate response to those campaigns using theoretical explanations and case studies.
Connections Discipline: Social Science
Prerequisites: BUS 342

BUS 475 - Strategic Planning and Policy Capstone

3 Credits Students analyze policy formulation and implementation from an organizational-wide standpoint. The course emphasizes integration of knowledge and planning approaches, analysis of both internal and external resources and constraints that affect organizational policies, and the role of the firm in society. Case analyses are integral to the course.
Prerequisites: BUS 222, BUS 228, BUS 232, and BUS 330

BUS 482 - Corporate Citizenship and Stakeholder Management Capstone

3 Credits Students identify and explore the philosophical, ethical, and practical issues of relationships between businesses and their broader stakeholders. A central focus for the course is developing an appreciation for these relationships as well as the skills to balance the diverse and sometimes conflicting demands that stakeholders place on business organizations.
Prerequisites: BUS 342

ECN 263 - Economics in Context

4 Credits In this course students study the basics of microeconomic and macroeconomic theory under the neoclassical model, including supply and demand, wage determination and monetary and fiscal policies. Students are challenged to situate the model in historical, social and ecological contexts, beyond what is typically considered in an introductory economics course. Students also explore empirical work that challenges the assumptions underlying the dominant theory.
Connections Discipline: Social Science

Chemistry

CHM 103 - General Chemistry: The Chemistry of Food

4 Credits Through laboratory and classroom investigations, students study sustainable agricultural techniques from a scientific perspective and measure concentrations of both nutrients and contaminants in the campus garden. Students also examine the societal benefits and risks of pesticides to our society, and study the connection between diet and health.

Course Fee.
Connections Discipline: Natural Science
Corequisites: XNN 105

CHM 105 - General Chemistry: Chemistry in Social Context

4 Credits Students examine the natural and human world through the lens of chemistry. In particular, they examine small molecular interactions that help determine how humans and other organisms interact with one another. Specific topics include the chemistry of air pollution, neurochemistry, global climate change, and the impact of human produced pollutants in the ecosystem. In the lab, students synthesize compounds and measure chemical attributes of the natural world.
Course Fee.
Connections Discipline: Natural Science
Corequisites: XNN 110

CHM 108 - General Chemistry: Respondng to Climate Change

4 Credits Students investigate how chemistry relates to climate change by looking historically at what technologies have contributed to or mitigated against climate change. Students also investigate what new technologies are being developed and how these may reduce climate change and our environmental impact. This course is an applied version of general chemistry and has a significant laboratory component associated with it.
Course Fee.
Connections Discipline: Natural Science

CHM 110 - General Chemistry

4 Credits Students learn models and theories of atomic and molecular structures and explore uses of the periodic table. Using modern techniques, such as atomic emission spectroscopy, atomic absorption spectroscopy, gas liquid chromatography, and visible light spectrophotometry, students determine the constituents of matter in real world samples. Students also apply classical techniques in the laboratory to elucidate the behavior of environmental samples. (Advanced Placement or CLEP credit accepted for 110)
Course Fee.
Connections Discipline: Natural Science

CHM 210 - Chemistry of Natural Waters

4 Credits Students spend time in the field and in the laboratory measuring attributes of natural water ecosystems. They explore appropriate ecological and chemical theories to help them understand how and what they might wish to measure. Students relate experimental measurements to relevant theories.
Course Fee.

Connections Discipline: Natural Science or Experiencial
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 212 - Water Quality Lab Techniques

4 Credits This laboratory based course provides hands-on experience in water quality analysis with a focus on regional water quality issues. In collaboration with Northland's Applied Research and Environmental Laboratory, students will learn quantitative methods of analysis while measuring water quality indicators such as total phosphorous, chlorophyll a, nitrate, and chloride. The course will incorporate a wide range of chemical techniques including volumetric, potentiometric, and spectrometric methods.
Course Fee
Connections Discipline: Experiential
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 214 - Chemistry in a Regulatory Environment

3 Credits Students explore the relationship between analytical measurements of pollutants in the environment and regulatory policy. They examine EPA regulations and EPA protocols for laboratory work. The course includes in situ water sampling as well as visits to government agencies in the region that impact the Lake Superior watershed.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 220 - Organic Chemistry I

4 Credits This course focuses on the properties and environmental transport of organic chemicals as well as the functional group transformations most often encountered in biological and environmental systems. Students study the following major classes of chemicals: aliphatic and aromatic hydrocarbons, alkyl halides, alcohols, carbonyl compounds, and amines. Instrumental analysis of the compounds students synthesize is also an important component of the course. With Lab.
Course Fee.
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 221 - Organic Chemistry II

4 Credits The second semester of organic chemistry presents a comprehensive study of structures, reactions, syntheses, and spectroscopy of aliphatic and aromatic compounds. Students focus on modern mechanistic models as well as organic chemistry laboratory techniques.
Course Fee.
Prerequisites: CHM 220

CHM 225 - Ecological Quantitative Analysis

4 Credits Students learn how to apply quantitative methods of analysis, including volumetric, photometric, and chromatographic methods to complex environmental samples. An independent laboratory project is required. Students also learn the relevant theories that underlie the operation of complex modern instrumentation and learn and apply statistical methods of quality control and validation of results.
Course Fee.
Prerequisites: CHM 103, CHM 105, CHM 108, and CHM 110

CHM 234 - Green or Toxic Chemistry

3 Credits Through lectures, discussion, and labs, students explore a number of questions related to green or toxic chemistry, including the following: What makes some chemicals toxic? How do scientists determine the environmental fate of contaminants? How has chemical synthesis been changed to reduce or eliminate environmental impacts?
Course Fee.
Connections Discipline: Natural Science
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 240 - Inorganic Chemistry

4 Credits This course focuses on descriptive chemistry of main group elements. Students study spectra, structure, and reactions of transition metal complexes, as well as preparation, bonding, and applications of organometallic compounds.
Course Fee.
Prerequisites: CHM 103, CHM 105, CHM 108, or CHM 110

CHM 245 - Atmospheric Chemistry and Climate

4 Credits This course evaluates the many factors affecting global climate, its feedback mechanisms, and climate change. Topics include the global energy balance, the hydrological cycle, radiative transfer, general circulation, and natural and anthropogenic climate change. Students also study greenhouse warming, ozone layer depletion, acid rain, air pollution toxins, and other anthropogenically induced effects. The course is focused on basic concepts of atmospheric science but also includes principles of physics, chemistry and hydrology.
Course Fee.
Connections Discipline: Natural Science

CHM 320 - Advanced Organic Chemistry

4 Credits Students study advanced topics in organic chemistry, including both synthetic and mechanistic material. Fused ring systems and conformational analysis are a particular focus of the course.
Prerequisites: CHM 221

CHM 326 - Atmospheric Chemistry

4 Credits Students investigate the chemistry of the upper and lower atmosphere, including issues such as photochemical smog, acid deposition, stratospheric ozone depletion, and climate change. Along the way, students develop the necessary background in chemical kinetics, thermodynamics, and photochemistry to better understand these complex atmospheric issues.
Prerequisites: MTH 141 and any 100-level CHM course

CHM 345 - Biochemistry

4 Credits In this course, students explore four major biochemical themes—the nature and synthesis of proteins, pathway regulation and integration, energy flux, and information transmission—through the study of topics such as endocrine disrupters, pharmacology, biochemical adaptations, and environmental toxicology. Students also use computer data analysis for predicting biochemical structure and classifying protein sequences.
Course Fee.
Prerequisites: CHM 221

CHM 374 - Pharmacology

3 Credits Students study the action and uses of drugs employing the fundamentals of pharmacodynamics and pharmaceutical chemistry based on theories of organic chemistry and biochemistry. In particular, the course focuses on in-depth investigations of the interactions of drugs within biological systems, emphasizing relationships between the function of drugs and their overall structure.

CHM 443 - Quantum Mechanics and Molecular Spectroscopy

4 Credits Students solve Schrodinger's equation for several important model systems to explore the qualitative nature of quantum systems. They examine the nature of the covalent chemical bond theoretically, using both ab initio and semi-empirical treatments of molecular orbital theory and valence bond theory. Students also explore molecular spectroscopy through application of solved model quantum systems.
Prerequisites: MTH 141, PHY 110, CHM 220, and CHM 225 or CHM 240

CHM 447 - Chemical Thermodynamics

4 Credits Students study the laws of thermodynamics and apply these laws to chemical processes in order to develop an understanding of chemical equilibrium and the nature of spontaneity in physical and chemical processes. Students also develop an understanding of the Boltzmann distribution and analyze molecular spectra in light of the insight provided by Boltzmann.
Prerequisites: MTH 141, PHY 110, and CHM 225 or CHM 240

CHM 449 - Kinetics and Transport

4 Credits Students study the kinetics of chemical reactions and the development of theory of transport of species in various systems. They also develop an understanding of the partitioning of species in the environment. Throughout the course, students apply these theories to the fate and transport of chemical pollutants in air, water, and soil.
Course Fee.
Prerequisites: MTH 141, PHY 110, and CHM 225 or CHM 240

CHM 460 - Qualitative Organic Analysis

4 Credits This course focuses on structure elucidation and characterization of organic compounds by chemical and physical methods. Students use I.R., U.V., N.M.R., E.S.R., visible, and mass spectroscopy in determining molecular structure.
Course Fee.
Prerequisites: CHM 221

CHM 462 - Advanced Experimental Chemistry Capstone

3 Credits Students design and carry out experiments utilizing advanced instrumentation. Specifically, students develop the expertise to interpret and analyze complex results from experiments utilizing techniques such as gas chromatography with mass spectroscopic detection, high performance liquid chromatography with varied detection including fluorescence, diode array ultra-violet spectroscopy, or conductivity detection, Fourier transform nuclear magnetic resonance spectroscopy, and electroanalytical methods.
Course Fee.
Prerequisites: Instructor Consent

Computer Science

CPS 220 - Computer Science

4 Credits Students study software-engineering design concepts, effective problem-solving techniques, and Object-Oriented Programming.
Prerequisites: Any 100-level MTH course, ACT math score of 17 or higher, SAT math score of 830 or higher, or Instructor Consent

CPS 260 - Computer Organization and Systems

4 Credits Students study the organization and role of various computer components in processing information, including data representation, Boolean algebra, digital logic design, and an introduction to assembly language.
Prerequisites: CPS 220 or Instructor Consent

Economics

ECN 310 - Environmental Economics

3 Credits Students study the economics of environmental quality and tools for understanding and analyzing environmental problems. The course treats environmental quality as an economic good, and focuses on hazardous wastes, solid wastes, water quality, air quality, and social costs.
Connections Discipline: Social Science
Prerequisites: BUS 226 or BIO 234

ECN 330 - Global Economics

3 Credits This course expands the students' interests and expertise beyond the economic boundaries of the United States. Global economics is a macroeconomic-based study that teaches the theory, methodologies, and policies that have shaped the rapidly growing global economy. Students explore policy options for improving the global economy for future generations.
Connections Discipline: Social Science
Prerequisites: BUS 226

ECN 460 - Economics of Sustainability

3 Credits This course focuses on sustainable economic development, i.e., the development process which optimizes the long-run, net benefits to humankind. Students explore a development path that makes conservation of resources the underpinning of economic development and the welfare of future generations. Special attention is given to issues pertinent to the local region or area. Pre 2009 Lib ed: Environmental Perspectives.
Connections Discipline: Social Science
Prerequisites: BUS 226

Education

EDU 203 - Foundations Math for Elementary Teachers

3 Credits This course is an introduction to number theory, structure of the real number system, algebra, geometry, trigonometry, coordinate and transformational geometry, as well as statistics and probability. Course content will be presented consistent with the NCTM Principles and Standards for School Mathematics and the Common Core State Standards for Mathematics. This course meets the quantitative reasoning liberal education requirement for elementary education majors only.
Connections Discipline: Quantitative Reasoning

EDU 204 - Language Arts for Educators

3 Credits This course will enable the student to understand and create the elementary and middle school literacy curriculum through a balanced approach of using the Common Core State Standards for English as the framework.

EDU 205 - Curriculum, Planning, and Assessment

3 Credits Students learn to develop and deliver lessons using components of good lesson design. Students learn to design a multi-disciplinary framework and a variety of assessments to measure student learning, organize content, utilize resources to maximize student learning, all in the framework of diversity and human relations.

EDU 222 - The Reflective Educator

2 Credits Students focus on enhancing reflective skills in order to analyze and interpret data collected from a variety of classroom settings. Students initiate the electronic portfolio of evidence, which is required throughout all teacher education majors, to demonstrate competency in the educator standards and professional dispositions.

EDU 223 - Teaching in the Middle School

3 Credits This course is designed to explore the many facets of teaching at the middle-school level. The students will work toward an understanding of characteristics of adolescents at this stage of development, examine the elements of middle-level concepts, and research current literature. Specific topics include motivating middle-level learners, advisor/advisee programs, block scheduling, classroom management strategies, exploration courses, transition programs, parent-teacher conferences, interdisciplinary teams, brain research, and middle-school level philosophy.

EDU 225 - Foundations of Education

3 Credits Students examine philosophical, historical, and social foundations of education. Topics include teaching as a profession, human relations, history of American education, the administrative structure, legal, political, and economic issues and trends, social class, diversity, the challenges of equal educational opportunity, and the impact of technology.
Connections Discipline: Social Science

EDU 289 - Children and Adolescent Literature

3 Credits Students read and evaluate a broad range of children's and adolescent literature focusing on both classical and contemporary works. Students evaluate literature, analyze text and artwork, discuss multiculturalism, and understand the influence of literature on the emotional and academic growth of children and adolescents.

EDU 315 - Classroom Management and Conflict Resolution

3 Credits Students develop strategies for managing a classroom, investigate diverse classroom management and conflict resolution strategies, and design a classroom

environment management action plan. This course is taken in the last fall semester prior to student teaching. Clinical experience required.
Prerequisites: Formal admission to the education program

EDU 337 - Fall Practicum

1-4 Credits This course is designed to prepare pre-service teachers for the full-time student teaching semester as well as their role as future classroom teachers. The course is divided into three parts: organization of curriculum, instruction, and assessment; an intensive clinical field experience, which deepens and strengthens the skills necessary to have a successful student teaching placement; reflection and analysis of teaching effectiveness. Clinical emphasis will be in math, classroom management, and diverse learners teaching methods.
Prerequisites: Formal admission to the education program

EDU 338 - Winter Practicum

1-4 Credits This course is designed to prepare pre-service teachers for the full time student teaching semester as well as their role as future classroom teachers. The course is divided into three parts: organization of curriculum, instruction, and assessment; an intensive clinical field experience which deepens and strengthens the skills necessary to have a successful student teaching placement; reflection and analysis of teaching effectiveness. Clinical emphasis will be in literacy, science, and social studies teaching methods.
Prerequisites: Formal admission to the education program

EDU 341 - Science Teaching Methods

3 Credits Pre-service teachers use appropriate tools, tactics, pedagogies, and technologies for teaching science content in a school setting. Pre-service teachers use the information, skills, and shared experiences to build self-confidence. Clinical experience required.
Course Fee.
Prerequisites: Formal admission to the education program

EDU 347 - Secondary Content Teaching Methods

4 Credits Students will develop skills with a variety of research-based teaching strategies, which will be adapted to their particular teaching majors. Students will be matched with a secondary teacher in their major who will provide additional support for content-specific planning, teaching , and assessment.
Prerequisites: Formal Admission to the Education Department

EDU 349 - Literacy Teaching Methods

4 Credits Pre-service teachers plan, present, and assess a variety of language arts strategies--including phonics instruction--develop the ability to assess the level of materials, and diagnose student reading levels and writing proficiency as related to the content areas. Pre-service teachers explore resources, tools, and strategies to align with state and national standards in reading and writing. Clinical experience required.
Prerequisites: Formal admission to the education program

EDU 351 - Physical Education Teaching Methods

1 Credits Pre-service teachers develop appropriate tools, tactics, and strategies for teaching physical education and health in the classroom. Information provided, skills taught, technology used, and experiences shared will serve to build self-confidence.
Prerequisites: Formal admission to the education program

EDU 364 - Early Language and Literacy Development

3 Credits Students research the speaking, listening, reading, and writing development of young children as well as holistic and skill-oriented literacy programs, with an emphasis on the literacy-rich environments at home and in schools.
Prerequisites: Formal admission to the education program

EDU 366 - Curriculum Design in Early Childhood Education

3 Credits Students research cognitive, social, emotional, physical, and creative needs of young children and design curriculum to meet these needs in both indoor and outdoor learning environments.
Prerequisites: Formal admission to the education department

EDU 370 - Social Studies Teaching Methods

3 Credits Pre-service teachers use appropriate tools, tactics, pedagogies, and technologies for teaching social studies content in a school setting. Pre-service teachers use the information, skills, and shared experiences to build self-confidence. Clinical experience required.
Prerequisites: Formal admission to the education program

EDU 371 - Fine Arts Teaching Methods

1 Credits Pre-service teachers use appropriate tools, tactics, pedagogies, and technologies for teaching fine arts in a school setting. Pre-service teachers use the information, skills, and shared experiences to build self-confidence.
Course Fee.
Prerequisites: Formal admission to the education program

EDU 376 - Strategies for Teaching Diverse Learners

3 Credits Pre-service teachers will gain an understanding of child development and the procedures used for assessing pupils with disabilities. Pre-service teachers will be able to distinguish the roles and responsibilities of regular and special education providers, and they will plan lessons and activities aimed at engaging diverse audiences, including pupils with disabilities. Course meets statutory requirements for MC-EA and EA-A (elementary/middle and secondary) education licensure. Clinical experience required.
Prerequisites: Formal admission to the education program

EDU 377 - Mathematics Teaching Methods

4 Credits Pre-service teachers use appropriate tools, tactics, pedagogies, and technologies for teaching mathematics content in a school setting. Pre-service teachers use the information, skills, and shared experiences to build self-confidence. Clinical Experience: 20 hours for elementary majors and 40 hours for secondary majors.
Course Fee.
Prerequisites: Formal admission to the education program

EDU 393 - Portfolio Development

0 Credits This course is required for all education majors and must be taken in the semester immediately preceding the student teaching semester. The purpose of this course is to complete and present the developing portfolio as required by DPI for assessment by the Education Department faculty members. Successful completion of this course is a pre-requisite for enrolling in student teaching.

EDU 460 - Student Teaching (EA-A) and Seminar

6 - 12 Credits Students teach full days for a full semester in grades 7 through 12 following the daily schedule and semester calendar of the cooperating schools, under the direct supervision of classroom cooperating teachers and college supervisors. During the interactive seminar, students focus on curriculum, human relations, career development, and reflective practices.
Course Fee.
Connections Discipline: Experiential
Prerequisites: Formal admission to the education program

EDU 471 - Student Teaching (MC-EA) and Seminar

6 - 12 Credits Students teach full days for a full semester in grades 1 through 8 following the daily schedule and semester calendar of the cooperating schools, under the direct supervision of classroom cooperating teachers and college supervisors. During the interactive seminar, students focus on curriculum, human relations, career development, and reflective practices.
Course Fee.
Connections Discipline: Experiential
Prerequisites: Formal admission to the education program

EDU 472 - Student Teaching Minor (MC-EA/EA-A)

0 Credits Students teach in the area of their academic minor full days for a full semester following the daily schedule and semester calendar of the cooperating schools, under the direct supervision of classroom cooperating teachers and college supervisors.
Connections Discipline: Experiential
Prerequisites: Concurrent enrollment in EDU 471 or EDU 460 and formal admission to the education program

EDU 479 - Student Teaching Continuation

1 Credits This is a continuation of the winter semester of student teaching.
Prerequisites: EDU 460 or EDU 471

EDU 540 - Teaching Reading and Writing

3 Credits Theory and practice in the teaching of reading and writing in the content subjects at the middle and secondary levels. Meets DPI requirements for secondary teachers and Reading Teacher Certification.

EDU 580 - Supervision of Student Teachers I

2 Credits Classroom teachers complete training through a seminar format and distance learning in the supervision of student teachers and the Wisconsin educator standards. Topics include introducing student teachers to the teaching process, establishing effective personal relationships, planning, clinical supervision, legal issues, and evaluating student teachers.

EDU 581 - Supervision of Student Teachers II

2 Credits Classroom teachers continue training in the supervision of student teachers and the Wisconsin initial educator standards from the previous course in order to meet the requirement of PI34.
Prerequisites: EDU 580

EDU 582 - Remedial Reading

3 Credits Assessment and remediation strategies to maximize potential of students with at least a two-year deficit in reading ability. Evaluation instruments, record keeping, school resources, and effective methods will be considered.

EDU 583 - Remedial Reading Practicum

3 Credits A reading lab to provide supervised clinical experiences in the diagnosis and correlation of reading disabilities. College students work directly with elementary,

middle, of secondary learners to remediate reading problems. Supervisor will model strategies and oversee program planning and delivery.

EDU 589 - Adolescent Literature

3 Credits Reading and evaluation of a broad range of adolescent literature will be covered. This course is designed for middle and secondary teachers in all content areas, and focuses on issues and themes as they relate to adolescent development across the curriculum.

English

ENG 110 - Introduction to College Writing

3 Credits Students develop skills required to successfully complete writing assignments for collegiate-level courses. Particular focus is given to sentence and paragraph structure, grammar and spelling, critical analysis, thesis statements, and research techniques. Students work on assignments required for their disciplinary courses, develop strategies for effectively engaging in the writing process, and acquire knowledge required to accurately evaluate their own writing. Successful students acquire the confidence and skills required to continue improving their writing after completion of the course.

ENG 126 - Confluences: Reading and Writing in the Lake Superior Watershed

4 Credits Part of the Superior Connections Program, in this course students gather and integrate their experiences and studies of the Lake Superior Watershed using the creative and synthetic potential of dialogue and written expression. The reading of literary and historical texts, the composition of essays, and delivery of oral presentations are integral to the course.
Connections Discipline: Humanities
Corequisites: XHH 115

ENG 140 - Food for Thought: Reflecting upon Agrarian Life in America

3 Credits In this course, students in the Growing Connections program synthesize their studies through the medium of literature. Using stories, essays, and poetry students explore varied current and historical perceptions regarding the consumption of food and those who work to provide it. The focus of student work in this course is on written and spoken expressions of the role agriculture has played, and will play, in human life.
Course Fee
Connections Discipline: Humanities

ENG 160 - Natural Disasters in Literature and Film

4 Credits Students critically examine natural disasters in literature and cinema, focusing on how the representation of events such as tornados, floods, volcanic eruptions, asteroid

hits, and environmental apocalypse involves social issues such as gender, race, economics, nationhood, and global climate change.
Connections Discipline: Humanities
Corequisites: XHS 105 or XHS 107

ENG 165 - Pastoral and Agricultural Literature

4 Credits This course explores depictions of rural and agrarian life in literary contexts—how the relationship to "the land" has been figured aesthetically and historically. Students examine how rural work—especially farming and herding—is idealized, valued, or ignored in a variety of textual forms, including the short story, the essay, and poetry.
Connections Discipline: Humanities
Corequisites: XHH 105

ENG 180 - Public Speaking

3 Credits Students develop speech writing, presentation, and analysis skills, with concentration on the development of speech content and delivery methods.

ENG 211 - Humanity and Nature in Literature

3 Credits Students read and analyze selected short stories, novels, plays, essays, and poetry that focus on human relationships with the natural world.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 213 - Literature of the Western Worlds

3 Credits Students study seminal Western Literature texts from Antiquity to the Renaissance with a particular focus on the Medieval period (Andrea Capellanus, Dante, Boccaccio, Chaucer).
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 216 - The Contemporary Novel

3 Credits In this course, students examine the novel as a genre as well as prominent novels of the past 30 years.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 217 - Contemporary Third World Literature

4 Credits Study of selected novels and short stories of established authors as well as emerging young writers from Africa, Latin American, and Asia.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 227 - The Gothic Novel

3 Credits Students examine the gothic tradition as it evolved from British novels in the late 18th century to writings in contemporary American horror. The course charts the progress of various themes and motifs, including the nature and origins of evil, hidden or double lives, and the natural versus the unnatural and the supernatural.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 228 - Literature of the Arab World

4 Credits This course emphasizes the study of selected contemporary short stories and novels written by established authors as well as emerging young writers, of both genders. It covers culture, politics, women's as well as other issues. Recent documentaries and movies accompany the course readings.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 229 - Reading the Waters

4 Credits In this introductory literature course, students read and analyze essays, short stories, novels, and poems that focus on or were inspired by human relationships to the Lake Superior Watershed or by water in general. Through the course, students learn how to apply systematic interpretive approaches to their reading and develop an appreciation for literary works from different genres and periods. Written and oral interpretive assignments are integral to the course.
Connections Discipline: Humanities
Prerequisites: XHH 115 or XNN 115

ENG 233 - Women of the Third World

3 Credits Study of short stories and novels that explore many issues from the vantage point of women in Africa, Latin America and Asia.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 234 - Science Fiction and Societal Collapse

4 Credits Focused on the theme of environmental and societal collapse, this course explores through Science Fiction (novels and short stories) the different literary dystopias of possible futures. Selected movies are viewed in conjunction with the literature of the course.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 240 - Pens and Paddles in the North Woods

4 Credits This course combines literary study with wilderness fieldwork. Students read accounts of North Woods canoe journeys by authors such as Henry David Thoreau, Florence Page Jacques, and Sigurd F. Olson, and then travel to the Boundary Waters Canoe Area for a 15-day canoe trip.
Course Fee.
Connections Discipline: Experiential

ENG 262 - Survey of British Literature

3 Credits Students read and study major British and Irish literary works from the early Medieval period to the present day.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 264 - Survey of American Literature

3 Credits Students read and study representative works of American literature from its origins to the present.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 318 - Nature Writers

3 Credits Students read and study selected texts from the genre of non-fiction nature writing. Discussions and writing assignments help students develop an understanding of movements and trends within the genre as well as an appreciation for the achievements of individual authors.
Connections Discipline: Humanities
Prerequisites: ENG 165, ENG 211, ENG 240, ENG 264, ENG 372, ENG 377, OED 328, or HIS 325

ENG 372 - Nature in Latin American Literature

3 Credits Students read and study contemporary short stories from Latin America and the Caribbean, focusing on their unique treatment of nature in both content and form. Particular attention is given to the metaphoric use of nature to treat sensitive historic, political, psychological, and social issues.
Prerequisites: Any 200-level literature course

ENG 377 - Green Romanticism

3 Credits This course focuses on British Romantic-era nature writing and explores the emergence of proto-ecological thought in period authors such as William Wordsworth, John Clare, and Charlotte Smith, with an emphasis on their use of precise physical detail, their depictions of the dynamism of natural processes, and their descriptions of the impact of human activities on local eco-systems.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 384 - Literary Criticism

3 Credits This is an advanced course in literary study. Students examine diverse scholarly approaches to literature, including New Critical, Feminist, Historical, Psychoanalytic, Post-Structuralist, and New Historical critical traditions.
Connections Discipline: Humanities
Prerequisites: Any ENG Course

ENG 387 - The English Language

4 Credits Students study the origins and development of the English language, advanced grammar, and issues in contemporary linguistics.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 413 - Shakespeare

4 Credits This course explores 5-6 Shakespeare plays in their literary, historical, and dramatic contexts. Students engage actively with the texts as scripts in discussion environments and watch several stage and screen adaptations (in and out of class). Coursework includes two 10-page research papers and regular reading quizzes.
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 415 - Chaucer

4 Credits Students gain exposure to literary form, language and pronunciation of Middle English in the Minor Poems and in-depth study of the Canterbury Tales in Modern

English.
Connections Discipline: Humanities
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

ENG 489 - English Senior Honors Thesis

3 Credits Students complete a long scholarly or creative work in consultation with a thesis director. The thesis is presented to the college community in a public reading. Students may only take this course by invitation of the English Program Coordinator. This course is not a capstone option for the English or Writing majors.
Prerequisites: Senior Standing

Geographic Information Systems

GIS 201 - Introduction to Geographic Information Systems

4 Credits Students learn GIS concepts through studying spatial data structures, sources of data, GIS analysis tools and sample applications. Students complete hands-on computer activities using ArcGIS software.

GIS 260 - Global Positioning Systems

1 Credits Students learn how the GPS satellite system works, accomplish GPS data collection using Trimple GPS receivers, and integrate GPS data into GIS projects.
Prerequisites: GIS 201

GIS 301 - Intermediate GIS Applications

4 Credits Building on knowledge and skills learned in GIS 201, students continue to use ArcGIS to create and analyze data through numerous computer activities. ArcGIS extensions will be introduced and students will learn to apply GIS project methodology to complete a specific GIS project.
Prerequisites: GIS 201

GIS 315 - Geodatabases

3 Credits Students study the elements and behaviors of spatial data within the geodatabase data model and apply their knowledge by building a relevant GIS geodatabase for a project.
Prerequisites: GIS 201

GIS 380 - Remote Sensing

4 Credits Students learn the principles of remote sensing and its applications in GIS project work. Course lab work includes hands-on interpretation of aerial photography and computer analyses of different types of satellite imagery.

GIS 401 - Advanced GIS Applications

4 Credits Students gain practical experience in designing and managing GIS projects, in addition to learning advanced GIS techniques, such as geostatistical analysis. Students complete their own GIS project encompassing all project management procedures – design, data acquisition, analysis, results, and presentation.
Prerequisites: GIS 201 and GIS 301

Geoscience

GSC 107 - Geology and Agriculture

4 Credits In this course students learn about the earth systems, soils, minerals, water, and energy used in agriculture and the environmental impacts caused by the use of those resources. The course focuses on how these impacts can be decreased so that agriculture can sustainably provide for the needs of society.
Course Fee.
Connections Discipline: Natural Science
Corequisites: REL 258 and XHN 115

GSC 112 - Geoscience Issues of Lake Superior

4 Credits Part of the Superior Connections Program, students learn about the geologic processes and history of the Lake Superior basin and how past geologic events established the setting in which the current ecosystem and human society reside. Field trips and laboratory exercises develop their skills in map reading, rock identification and interpretation, and give them an appreciation for the beauty and complexity of the natural environment of the lake basin and humans' relationship to the lake.
Course Fee.
Connections Discipline: Natural Science
Corequisites: BIO 128 and XNN 115

GSC 120 - Physical Geology

4 Credits Students study the origin and character of rocks and minerals and the geologic forces of ground water, running water, wind, and ice. Students also gain an understanding of volcanism, earthquakes, and mountain building as they relate to plate tectonics.
Course Fee.
Connections Discipline: Natural Science

GSC 140 - Natural Hazards

4 Credits Students study the Earth's surface processes and how they influence human activities. Topics include earthquakes, tsunamis, volcanoes, floods, subsidence, mass wasting, coastal hazards, hurricanes, tornadoes, wildfires and bolides.
Connections Discipline: Natural Science

GSC 222 - Sediments and Soils

4 Credits In this course students study the origin and characteristics of sediments and soils. They learn how sediments are created through rock weathering and how they are transformed into productive soils at Earth's surface. Through classes, laboratories and field trips, students learn sediment and soil classification; how water and nutrients move through soils; how soils become degraded and how they can be replenished.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 233 - Earth Resources

4 Credits In this course students learn about the geological occurrence and use of water, minerals, and energy resources, as well as the environmental and social impacts resource extraction and use. The course emphasizes environmental issues and solutions to resource problems.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 260 - Geology of the Lake Superior Region

4 Credits In this field course, students examine the rocks of the Lake Superior region to decipher the long, complex history of the area. The course includes travel to spectacular geologic and scenic areas for first-hand experience with the geology of the region.
Course Fee.
Connections Discipline: Natural Science or Experiencial
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 262 - World Regional Geography

3 Credits Students examine a world which is undergoing political, economic and social transformations at many different spatial scales. Current issues and events will be discussed. Students become familiar with basic concepts in geography in order to understand the place of world regions in the global system and the underlying forces of world events.
Connections Discipline: Social Science

GSC 305 - Hydrology

4 Credits This course focuses on the processes of the hydrologic cycle. Students learn about the occurrence and movement of water in the atmosphere, over land, and in the ground.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 320 - Landforms

4 Credits Students study the earth's surface features and the processes that create and modify them.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 321 - Minerals and Rocks

4 Credits In this course students study the composition and occurrence of the common minerals and rocks that make up the Earth. Through classes and laboratories that include extensive hands-on work with samples, students learn about the chemistry, structure, and importance of the rock-forming minerals, and the origin and significance of different kinds of rocks. The emphasis is on identification of rocks in the field.
Course Fee.
Prerequisites: GSC 120

GSC 324 - Coastal Geology

4 Credits Students study the physical and geological processes that control the formation and evolution of coasts, coastal morphology, classification, beach formation and evolution, and human impact on coasts.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 370 - Glacial Geology

4 Credits Students study the formation of glaciers and the processes by which glaciers flow and create landforms, the history of glaciation on Earth, and important controls on climate.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 406 - Hydrogeology and Geochemistry

4 Credits In this course students study the flow of groundwater and the chemical changes that it undergoes as it moves through aquifers. Students learn what controls the chemistry of water in the environment and learn to test water-quality parameters and how to determine the rates and directions of groundwater flow. An important theme that runs through the course is how humans impact water quality and how water quality can be

improved.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 474 - Tectonics and Structural Geology

4 Credits In this course students learn the details of how plate tectonics operates and the huge influence it has on conditions on Earth. They study everything from small-scale structures in rocks to the largest mountain ranges on Earth, and, in the process, they learn how conditions on Earth's surface are intricately connected to what is going on deep inside the planet.
Course Fee.
Prerequisites: GSC 107, GSC 112, or GSC 120

GSC 481 - Geologic Field Methods

2 Credits In this course students learn how to measure geologic structures and make geologic maps. The course prepares students for Geologic Field Camp, which is a month of field mapping in the Rocky Mountains in Wyoming. Recommend GSC 474 Tectonics and Structural Geology
Course Fee.
Prerequisites: GSC 120, GSC 222, and GSC 321

GSC 482 - Geologic Field Camp

4 Credits In this course students learn to make geologic maps that document the nature and distribution of earth materials in the field. Through extensive field work in the spectacular rock exposures of the Rocky Mountains, students become proficient at interpreting rocks and geologic histories.
Course Fee.
Connections Discipline: Experiential
Corequisites: GSC 481

GSC 486 - Senior Seminar in Water Science

2 Credits In this capstone independent research project, students use all of the skills and knowledge acquired in their coursework to complete a comprehensive drainage basin analysis. This analysis includes the water budget, stream characteristics, soils and sediments, and ground water flow in a drainage basin of their choosing. Students produce maps and a report and then present their research to the campus community. Offered by arrangement.
Prerequisites: Environmental Geoscience major with Water Science emphasis and Senior Standing

GSC 488 - Geoscience Capstone Research

2 Credits Students conduct geoscience field work and gather data for an original research project. The research topic is chosen by students and completed in collaboration with a faculty mentor.
Prerequisites: Environmental Geoscience major and Senior Standing

GSC 498 - Senior Seminar in Geology

2 Credits Students complete an independent research project and prepare for the Geoscience Exit Examination. The Exit Examination requires a presentation to the faculty about the research project and demonstration of competency in basic topics in geoscience. This seminar, along with required field experiences in GSC 482, constitutes the capstone experience for geoscience majors. The seminar provides preparation for career employment or graduate school.
Prerequisites: Environmental Geoscience major with Geology emphasis and Senior Standing

Gender and Women's Studies

GWS 265 - Introduction to Gender and Women's Studies

3 Credits Students study major issues, debates, and challenges in contemporary feminism as a political and academic movement, including representations and experiences of women, the construction of gender and gender roles, and their impact in areas such as body image, health, sexuality, reproductive rights, work, and domestic violence.
Connections Discipline: Humanities

GWS 266 - Ecofeminism

3 Credits Students examine ecofeminism as an intersection of environmentalism and feminism, focusing on relationships between nature, culture, and gender. Readings and discussions explore diverse approaches to ecofeminist concerns, including environmental ethics, spirituality, and political practice.
Connections Discipline: Humanities

GWS 331 - Feminist Theory

3 Credits Students participate in an advanced study of the theory and politics of contemporary feminism, including the contributions of prominent feminist academics and activists.
Connections Discipline: Humanities
Prerequisites: Any GWS course

GWS 343 - Queer Ecologies

3 Credits Queer Ecologies explores queer, feminist, environmentalist cultural theories that illuminate and interrogate historical and current intersections between sexualities, politics, and environments. This course asks, what do queer and feminist theories of gender, identity, power, and desire contribute to environmentalism, and likewise, how might environmentalist theories of nature and environment enrich queer and gender theory, politics, and activism?
Prerequisites: Any GWS course or HIS 209, HIS 260, SOC 234, SOC 236, SOC 240, SOC 341

History

HIS 101 - United States History to 1865

3 Credits Students examine major social, political, and economic developments in United States history from the origin of settlement through the Civil War. Students will pay special attention to such factors as race, class, religion, ethnicity, and gender in the shaping of the United States within this time frame.
Connections Discipline: Humanities

HIS 102 - United States History since 1865

3 Credits Students examine United States political, economic, and social developments from Reconstruction to the present. They focus especially on the evolution of cities, industrial capitalism, immigration, and ethnic and women's rights in the designated time frame.
Connections Discipline: Humanities

HIS 111 - History of World Civilizations to 1500

3 Credits This course surveys human history from the beginning of agriculture to 1500. Students examine how technological innovation, religious ideas, culture, social structures, economic forces, and the environment interacted to shape civilizations.
Connections Discipline: Humanities

HIS 112 - History of World Civilizations since 1500

3 Credits Students examine the interactions and increasing integration of the world's civilizations in the modern era. The course covers global trade networks, the rise of the Atlantic slave trade, European hegemony, the two World Wars, the Cold War and contemporary world trade, culture and politics.
Connections Discipline: Humanities

HIS 209 - Gender in the United States Landscape

3 Credits Students study the complex ways in which landscapes are constructed through ideology, commerce, and gendered understandings of nature. Students cover several

American landscapes and their construction, including but not limited to cities, wilderness, frontiers, suberbs, and parks.
Connections Discipline: Humanities

HIS 221 - History of Medieval Europe

3 Credits A history of the beginnings and development of Western European civilization from the later Roman Empire to the beginning of the modern era around 1500. The medieval period will be studied from the political, social, economic, and cultural perspectives of history.
Connections Discipline: Humanities

HIS 234 - Ideology in the 20th Century

3 Credits Students will explore the ways that political ideologies have shaped the world since 1900. Topics include European colonialism, the rise of communism and fascism, the Russian and Chinese Revolutions, the two World Wars, the Holocaust, the Cold War, colonial independence movements, globalization and the status of ideologies such as liberalism today.
Connections Discipline: Humanities

HIS 241 - American Environmental History

3 Credits Students trace the cultural perceptions of nature and humanity's impact on the environment over the course of American history. Students study various sites of environmental degradation and preservation and the history and politics of environmental protection and sustainability within several crucial frames, including those of race, class, and gender.
Connections Discipline: Humanities

HIS 242 - European Environmental History

3 Credits Students study the major climatic changes in Europe in the last 2000 years and the ways that these changes have impacted European society. Students also study the major ideas in European culture about human relationships with the environment, including scientific, religious, and more general cultural conceptions of nature.
Connections Discipline: Humanities

HIS 260 - Gender in Modern Europe

3 Credits Students examine how gender roles for both men and women have interacted with political, social, economic, and cultural changes over the last 400 years. Specific topics include gender's relationship to psychology, work and family, science, urban space, war, and imperialism.
Connections Discipline: Humanities

HIS 263 - History of the Middle East

3 Credits Students trace the history of the Middle East from the rise of Islam to the present with an emphasis on the events of the 20th century. Topics include European and American colonialism, Zionism and Arab Nationalism, the Iranian Revolution, the Persian Gulf Wars, the Israeli-Palestinian conflict, and the Arab Spring.
Connections Discipline: Humanities

HIS 264 - Middle East History and Politics

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course allows students to study the historical and political context of the complex struggle between Israelis and Palestinians, with particular attention to the sequences of action and time, the study of events, and the role of political power. As students develop an understanding of the origins and causes of the Israelis-Palestinian conflict, on-site visits to historic sites and guest speakers help them to make links to the present.
Connections Discipline: Interdisciplinary or Experiencial

HIS 266 - American Material Culture/Objects in Everyday Life and History

3 Credits In this course, students uncover the cultural messages in the objects and spaces of our everyday lives. They attend to the development of American consumer culture and how physical objects construct racial, ethnic, and gendered identities. Objects of study include, among others, cemetaries, museums, architecture, clothing, and vernacular art.
Connections Discipline: Humanities

HIS 270 - The Holocaust

3 Credits The course covers European anti-Semitism, racial ideology, the political crises of the early 1930s, Nazi ideology, the course of World War II, and the structures and functioning of the Nazi machinery of death. Questions regarding moral responsibility, memory, modernity, and depersonalization will figure prominently in discussions.
Connections Discipline: Humanities

HIS 315 - American Foodways

3 Credits Students examine various key sites and moments of agricultural production throughout United States history. Students study land law, as well as institutions of slavery, sharecropping, seed patenting, and spaces such as the plantation, farm, and botanical garden. Students examine various implements, including the fence, plow, as well as crate labels.
Prerequisites: Sophomore Status

HIS 320 - The Enlightenment

3 Credits Students examine the intellectual foundations of our culture from the Scientific Revolution to the French Revolution. The course emphasizes how the Enlightenment articulated Western civilization's understandings of science, the role of government, the nature of the individual, and rationalism. Assignments focus on placing texts in context.
Connections Discipline: Humanities
Prerequisites: Any HIS course

HIS 321 - The French Revolution

3 Credits Students study the French Revolution, an event that marks the beginning of modern politics in the West. Topics include the ideas of the Enlightenment, the events of 1789-1794, the rise of Napoleon, the birth of political ideologies, and the fundamental questions of government, representation, and violence in politics.
Connections Discipline: Humanities
Prerequisites: Any HIS course

HIS 325 - Nature and Nation: Environment, Art, Ideology

3 Credits This course examines the intersection of nature and nation-building in three periods: the early national period, 1950s cowboy culture, and present-day National Parks tourism. Students study the relationship of natural history to national culture, examining how empire and Enlightenment thinking come together to constitute nation-building as an imperial and Romantic art.
Connections Discipline: Humanities
Prerequisites: HIS 241, HIS 242, HIS 315, or Junior Standing

HIS 357 - Gender in Total War

3 Credits Students examine the transformation of gender roles during World Wars I and II and explore in particular challenges to ideals of masculine courage, valor, and military efficacy in the face of mechanized warfare as well as the ways in which the wars drew women into industrial workplaces and onto the killing fields. Illustrations of these dramatic upheavals in European and American conceptions of gender are examined in secondary histories, film, literature, and memoirs.
Connections Discipline: Humanities
Prerequisites: Any HIS course

Humanities

HUM 220 - Soviet Art and Music

3 Credits Beginning with some brief background on the late Czarist period and late Romantic music by Tchaikowsky, the course proceeds through the revolutionary periods, examines politics, poetry of Anna Akhmatova, music of Prokofiev, then focuses primarily on the Stalin years and the music of Shostakovich. Students will view and discuss the documentary film, Shostakovich vs. Stalin--The War Symphonies, a short

work of Solzhenitsen, One Day In The Life of Ivan Denisovich, and the novel, City of Thieves by David Benioff. The concluding period, death of Stalin through the dissolution of the Soviet State, is addressed through The Ransom of Russian Art by John McPhee, the long poem, "Zima Junction" by Yuri Yevtushenko, and late musical works of Shostakovich.
Course Fee.
Connections Discipline: Humanities

HUM 235 - Arts, Letters, and The World War

3 Credits Primarily focused on Europe, leading up to and through, World War I, the course examines arts, letters, and music of the period in the context of the cataclysmic changes of those times, probes the resulting sea change within the arts and the approaches and styles of many of the major exponents, and human response to world events and to the arts. Key themes: reorientation and disorientation.
Connections Discipline: Humanities

HUM 249 - Voices in the American West

3 Credits Students investigate the rich and varied art that treats the American West. Paintings, music, fiction, poetry, and film are considered. The manner in which creators such as Frederic Remington, Annie Proulx, Andrew Wyeth, Sherman Alexie, Cormack McCarthy, Aaron Copland, Zane Grey and Larry McMurtry inform and are informed by both the realities and the myths of the West are a central concern throughout.
Connections Discipline: Humanities

Interdisciplinary Studies

IDS 130 - Climate and the Complexities of Societal Change

4 Credits This course explores the complexity of societal action to address climate change. Insights come from the fields of environmental education, communication, history of science, clinical psychology, religion, economics, and environmental philosophy as well as from case studies of current events and from experiences of communities on the front lines of climate change.
Connections Discipline: Interdisciplinary

IDS 141 - Sustainable Agriculture Synthesis

4 Credits Students develop a holistic understanding of humanity's relationship to nature through famine and food, gain understanding of agricultural challenges through projects in the campus garden and surrounding farms, and consider how a systems perspective informs the practice of farming and advances in sustainable food production.
Connections Discipline: Experiential

IDS 168 - War and Peace in Film

3 Credits This Spring Term course critically considers how filmmakers, producers and executives, activists, and governments have advocated for war and peace through the medium of film in the past century. Students primarily examine the American experience in war and peace in this period, but international perspectives on the topic also receive consideration.
Connections Discipline: Interdiscplinary

IDS 180 - Lake Superior Circumnavigation

4 Credits In this May-term travel course, students explore the Lake Superior Watershed as they circumnavigate the Lake by van, boat, and foot. Visits to prominent natural and historical sites as well as interactions with members of regional communities are integral to the course.
Course Fee.
Connections Discipline: Experiential
Prerequisites: Superior Connections 4-course block

IDS 243 - Sustainable Agriculture Practicum

4 Credits In this field course, students gain hands-on experience in sustainable agriculture either by working on selected farms or by assisting organizations working on food or agricultural policy issues. Students have the opportunity to work in-depth with one farm or organization for the semester, or gain a broad experience with several farms and organizations over the semester.
Course Fee.
Connections Discipline: Experiential
Prerequisites: IDS 141

IDS 254 - Diversity and the Environment

3 Credits Students explore the unique issues that impact under-represented populations and their relationships to the environment. Issues that students examine include environmental policy, race and environmental injustice, cultural identity and the natural world, environmental activism, and diversity.
Connections Discipline: Interdisciplinary

IDS 274 - Israel and Palestine Studies

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course provides an interdisciplinary review of contemporary issues in three countries of the Levant region: Israel, Palestinian Territories, and Jordan. The first-hand survey includes home stays, touring, and study to understand the geography, culture, language, religion, economics, foreign relations, environment, and arts of the region.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to CELL Program

IDS 276 - Middle East Sustainability

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course provides students with an opportunity to explore the principles and integral relationship of peace and sustainability in Israel and Palestine. In addition to examining choices being made in their own lives and how these impact both peace and sustainability, the course provides an opportunity to examine current efforts in the region to build peace and a sustainable future. Field trips and opportunities to apply classroom learning to current peace and sustainability projects are integral to the course.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to CELL program

IDS 278 - Applied Peace and Sustainability

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this service-learning course challenges students to apply what they are learning in their academic courses to real-life peace and sustainability issues and practices in the programs and villages where they are working and living. Students will have opportunities to work with community partners in various organizations relating to peace and sustainability such as a refugee camp in Bethlehem, Friends of the Earth Middle East, Arava Institute, Seeds of Peace, Peace Players, an Environmental Education Center in Beit Jala, and Volunteering for Peace.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to CELL Program

IDS 280 - Trekking Planet Japan

4 Credits Students participate in an international study trip to Japan. The focus of the course is on historic and contemporary expression of Japanese religions, notably Buddhism and Shinto.
Course Fee.
Connections Discipline: Humanities or Experiential

IDS 281 - Spring in Italy

4 Credits Students study the great artistic, intellectual, and religious achievements of Medieval and Renaissance Italy as they travel in the heart of Tuscany and Umbria. Students reside in a medieval villa atop the Umbrian mountains in addition to resident studies in Florence.
Course Fee.
Connections Discipline: Humanities or Experiential

IDS 284 - Central American Culture, History, and Language

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course provides students with a hands-on introduction to the history and

culture of Honduras, Nicaragua, and Costa Rica; the challenges of conservation and development facing this region; and the language of the region. Students participate in several homestay experiences, visit cultural and historical sites, and engage in discussions, lectures, and reflective writing.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to CELL Program

IDS 285 - Iceland Culture, History, and Language

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course provides students with an overview of the culture, language, and history of Iceland. Students receive instruction in conversational Icelandic and develop an understanding of the socio-cultural and environmental contexts relevant to Icelandic studies. Field trips to historical sites are integral to the course.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to CELL Program

IDS 373 - Humans and the Environment

3 Credits Part of a Round River field experience, in this environmental anthropology course, students study a variety of topics that range from cultural models and narrative constructions of the natural environment to more applied, developmental issues associated with sustainability and community-based natural resource management, and the wider political and economic context of environmental issues as reflected in political-ecology and the environmental justice movement.
Connections Discipline: Interdisciplinary or Experiencial
Prerequisites: Admittance to the Round River Program

IDS 480 - Senior Seminar

3 Credits Through seminar discussions and essay assignments, students synthesize their learning from courses and experiences in the Humanity and Nature core and Environmental humanities emphasis. Specific topics of study vary in a given year.
Prerequisites: ENG 384, GWS 331 , HIS 325, REL 315 , or REL 331

Meteorology

MET 125 - Introduction to Meteorology

4 Credits This course provides students with an introduction to the general circulation of the atmosphere and the mechanisms responsible for the generation of daily weather. Students study seasonal and daily temperatures, atmospheric moisture, stability and cloud development, air pressure and winds, weather forecasting, and severe weather.
Course Fee.
Connections Discipline: Natural Science

MET 255 - Practicum Broadcast Meteorology

3 Credits This practicum provides students with an introduction to the field of broadcast meteorology and offers hands-on experience in creating and airing weather reports at the Northland News Center in Duluth. Students become familiar with the technology and operating procedures of a news/weather/sports studio environment, gain skills in the use of specialized software, and learn how to put together a broadcast package under time constraints. For this course, students must arrange their own transportation to the Northland News Center in Duluth.
Connections Discipline: Experiential

MET 270 - Oceanography

4 Credits Students learn about the two-way interaction between the ocean and its surrounding environment. Students study how the surrounding environment has shaped the ocean from the initial origins to today. This examination considers everything from the influence of humans, the atmosphere, and the smallest marine life. The course also covers how the ocean influences life in the sea as well as on land. Topics include mixing, currents, ocean chemistry, waves, tides, and tsunamis.
Course Fee.
Connections Discipline: Natural Science

MET 364 - Synoptic Meteorology I

4 Credits Students learn basic techniques for analyzing and forecasting surface and upper-air weather systems. The course focuses on air mass classification, frontal analysis, construction of surface weather maps, upper-air analysis, interpretation of satellite imagery, and discussions of standardized techniques for collection and reporting weather information and for displaying weather data patterns and preparation of forecasts.

Prerequisites: MET 125 and MTH 140 or PHY 110

MET 365 - Synoptic Meteorology II

4 Credits Continuation of Synoptic Meteorology I. Quasi-geostrophic theory, baroclinic instability, and potential vorticity dynamics are discussed in light of the development and propagation of mid-latitute cyclones and anticyclones. Interactions of synoptic-scale phenomena with the global and mesoscales are also discussed.
Prerequisites: MET 364 and MTH 141 or PHY 111

MET 387 - Mesoscale Meteorology

3 Credits By applying atmospheric dynamics and physical analysis techniques, students develop a physical understanding of and an ability to forecast certain mesoscale phenomena, including mesoscale convective systems, severe thunderstorms, and tornadoes. Students also are thoroughly educated in storm safety. The final week of the

course includes a storm chasing trip to Kansas, Nebraska, and South Dakota. To be eligible for the chasing trip, students must have SKYWARN spotter certification.
Connections Discipline: Experiential
Prerequisites: MET 125 and MTH 140

MET 464 - Dynamic Meteorology I

4 Credits

Students examine the theoretical foundations of meteorology and oceanography through the application of calculus and physics. Topics include the equations of motion, balanced flow, thermodynamics, circulation, and vorticity.

Prerequisites: MET 364, MET 365, and MTH 312

MET 465 - Dynamic Meteorology II

4 Credits Continuation of Dynamic Meteorology I. Topics include atmospheric waves, the planetary boundary layer, baroclinic and barotropic instability, and atmospheric turbulence.
Prerequisites: MET 464

MET 467 - Physical Meteorology

3 Credits Students complete an in-depth examination of various topics in atmospheric sciences including thermodynamics of moist air, radiative transfer through the atmosphere, and atmospheric fluid dynamics. The course requires a combination of advanced mathematics and a solid understanding of fundamental physics.
Connections Discipline: Natural Science
Prerequisites: MTH 141 and PHY 330

MET 480 - Senior Seminar in Meteorology

3 Credits The Senior Seminar in Meteorology is a capstone course intended for students majoring in meteorology and may include readings and presentations of current topics in meteorology, discussions, laboratory experimentation, and other preparation for employment and/or graduate school.

Modern Languages

MLG 105 - Elementary Spanish I

4 Credits Students develop a working knowledge of modern Spanish, allowing them to speak, write, and understand the language as it is used today. Classes are taught in Spanish and consist of dialogue practice, presentation of grammatical forms, and

intensive language drills. Regular attendance and steady, incremental work is essential for success in the class. Out-of-class support is provided by the instructor and a tutor. Texts for the course are carefully selected and include workbooks for drills and practice, as well as a strong focus on the different cultures of the Spanish-speaking world. Advanced Placement and CLEP credit accepted for MLG 105.

MLG 106 - Elementary Spanish II

4 Credits This course is a continuation of MLG 105, students further develop a working knowledge of modern Spanish, allowing them to speak, write, and understand the language as it is used today. Classes are taught in Spanish and consist of dialogue practice, presentation of grammatical forms, and intensive language drills. Regular attendance and steady, incremental work is essential for success in the class. Out-of-class support is provided by the instructor and a tutor. Texts for the course are carefully selected and include workbooks for drills and practice, as well as a strong focus on the different cultures of the Spanish-speaking world. Students develop conversational skills. Advanced Placement and CLEP credit accepted for MLG 106.
Prerequisites: MLG 105, Advanced Placement or CLEP credit

MLG 205 - Intermediate Spanish I

4 Credits This course continues to build a solid grammatical foundation and to reinforce the four basic skills —listening, speaking, reading, and writing— while giving more opportunities for conversation, so students can use the language freely and spontaneously. Culture is amplified with the class study of a movie script and viewing of the film, as well as various presentations on Latin America and Spain. Advanced Placement and CLEP credit accepted for MLG 205.
Prerequisites: MLG 106

MLG 206 - Intermediate Spanish II

4 Credits This course represents a mix of advanced grammar and conversation as well as an Introduction to literature. Students read short stories from renowned authors: those are analyzed and discussed in class and students write position/reaction papers on the topic of their choice. There are "windows" into other cultures through documentaries and films. Advanced Placement and CLEP credit accepted for MLG 206.
Prerequisites: MLG 205

Mathematics

MTH 106 - Environmental Mathematics

4 Credits Students explore environmental issues and problems using the mathematics of functions and basic statistics. Specific topics include explorations of measurements and units; ratios and percentages; tabular and graphical displays of data; linear, exponential, and power functions; difference equations; and statistical descriptions of data. Students

reinforce all concepts through application to environmental data and situations.
Connections Discipline: Quantitative Reasoning
Prerequisites: ACT math score of 17 or higher, SAT math score of 830 or higher, or Instructor Consent

MTH 107 - Statistical Concepts and Analysis

4 Credits Students learn to explore questions about data and populations through the application of exploratory data analysis and inferential statistics. Specific topics include summary graphics and statistics; normal distribution calculations; experimental design and sample collection; sampling distributions; inference concept; t-family of tests; chi-square family of tests; and regression. Students analyze data and perform tests with modern statistical software.
Connections Discipline: Quantitative Reasoning
Prerequisites: Any 100-level MTH course, ACT math score of 17 or higher, SAT math score of 830 or higher, or Instructor Consent

MTH 109 - Precalculus Mathematics

4 Credits Students review the real number system and develop understanding of functions and graphs. Topics include polynomials and zeros, rational functions, exponential and logarithmic functions, trigonometric functions, identities and inverse functions, solution of triangles and elements of coordinate geometry.
Connections Discipline: Quantitative Reasoning
Prerequisites: ACT math score of 20 or higher, SAT math score of 950 or higher, or Instructor Consent

MTH 140 - Calculus I

4 Credits Students learn the concepts of limit, continuity, derivative, and integration. Topics include Mean Value Theorem, anti-derivatives, definite integrals and their applications. Students apply the derivative concept to curve sketching and extreme value problems of optimization in the life, social, and physical sciences.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 109, ACT math score of 25 or higher, SAT math score of 1150 or higher, or Instructor Consent

MTH 141 - Calculus II

4 Credits In this course students develop a deeper understanding of calculus and its applications. Topics include applications of the definite integral, techniques of integration, improper integrals, Taylor polynomials, sequence and series, functions of several variables, partial derivatives, and multiple integrals.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 140

MTH 207 - Biometry

4 Credits Students learn to explore more advanced questions about data and populations through the application of statistical models and inferential statistics. Specific topics include linear models of one- and two-way ANOVA with multiple comparisons and transformations, linear regression with transformations and indicator variables, and logistic regression. Students apply theoretical constructs to real-life situations in the life and natural sciences using modern statistical software.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 107

MTH 230 - Mathematical Modeling

4 Credits Students use deterministic and stochastic models based on difference and differential equations to draw conclusions and make predictions about natural systems. Topics include equilibrium analysis, bifurcation, chaos, hysteresis, phase plane analysis, and numerical simulation. Students apply modeling concepts to population ecology, population viability, predator-prey relationships, sustainable use of renewable resources, and global climate.
Prerequisites: MTH 140

MTH 307 - Probability and Its Applications

3 Credits Students learn combinatorial analysis, axioms of probability, conditional probability, discrete, continuous and jointly distributed random variables, moment generating functions and limit theorems. Students apply theoretical concepts to inferential statistics, Bayes' Theorem, and Markov chains.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 141 or Instructor Consent

MTH 312 - Advanced Calculus

4 Credits Students explore multivariate functions and vector calculus. Topics include extreme values of functions of several variables, implicit functions and Jacobians, transformation of coordinates, derivatives of vector-valued functions, line integrals, surface integrals, Green's theorem, Stokes' theorem, and the divergence theorem.
Prerequisites: MTH 141

MTH 328 - College Geometry

3 Credits Students learn both Euclidean and non-Euclidean geometry. Topics include vector methods of proof, classical theorems, geometric transformations of the Euclidean plane, the Poincare model of hyperbolic space and non-Euclidean geometry, and introductory projective geometry.
Prerequisites: MTH 141 or Instructor Consent

MTH 330 - Differential Equations

4 Credits Differential equations serve as mathematical models for displaying the interrelations between mathematics and the physical sciences engineering. Students study the methods of solutions of ordinary differential equations to represent the dynamics of physical phenomena. Topics include first and second order linear differential equations, power series, and Laplace transform solutions of differential equations.
Prerequisites: MTH 141

MTH 335 - Discrete Mathematics

4 Credits Students learn fundamental discrete structures. Topics include algorithms, mathematical induction, elements of set theory, graphs, trees, combinatorics, difference equations, recursion, logic, and probability.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 140 or Instructor Consent

MTH 337 - Linear Algebra

4 Credits Students use matrix and generalized vector spaces to understand multi-variable functions in real-life applications. Topics include vector spaces, linear dependence/independence, properties of matrices and determinants, linear transformations, inner product spaces, and eigenvalues.
Connections Discipline: Quantitative Reasoning
Prerequisites: MTH 141 or Instructor Consent

MTH 470 - Advanced Topics in Mathematics

4 Credits Students learn methods of rigorous proofs in analysis and algebra. Topics from analysis include sequences and series, continuous functions on metric spaces, derivatives, basic point set topology and properties of Riemann integrals. Topics from modern algebra include groups, rings, and fields. Real Analysis/Modern Algebra offered in alternate years.
Prerequisites: MTH 141 or Instructor Consent

MTH 496 - Mathematics Senior Capstone Seminar

1 - 4 Credits Students select, conduct, and complete a research project. The focus of the seminar reflects particular competencies of faculty and specific interests of students. Strongly recommended for all senior mathematics majors.

Music

MUS 101 - Introduction to Music

3 Credits This course is an introduction to music history, language and form. Students learn to listen to and discuss music critically. Classical, western tonal music is the foundation, but other styles of music are included. Students experience live music in various settings.
Connections Discipline: Humanities

MUS 121 - Chamber Music in Performance

1 Credits Students rehearse and perform chamber music repertory for various standard combinations of instruments and/or voices. Repeatable for credit.
Course Fee.

MUS 122 - Voice in Class

1 Credits Students study the basic principles of vocal tone production and develop vocal skills in a group setting.

MUS 131 - Symphonic Band

0 - 1 Credits In this Northland College and community concert band, participants study traditional and contemporary band literature and participate in concerts throughout the academic year, balancing the musical and educational needs of the members with service to the cultural needs of the community. Membership is open to all qualified students. Repeatable for credit.
Course Fee.

MUS 141 - Northland Singers

0 - 1 Credits This is a mixed choir for students who enjoy the challenge of singing a wide variety of choral music in a range of different styles. The course is offered by audition and is repeatable for credit.
Course Fee.

MUS 143 - Lumberjack Chorus

0 - 1 Credits This is a male choir for students and community members who enjoy the challenge of singing a wide variety of choral music in a range of different styles. The course is offered without audition and is repeatable for credit.

MUS 145 - Accidentals Women's Chorus

0 - 1 Credits This is a female choir for students and community members who enjoy the challenge of singing a wide variety of choral music in a range of different styles. The course is offered without audition and is repeatable for credit.

MUS 151 - Jazz Band

0 - 1 Credits The band is organized for the study and performance of jazz arrangements and composition in a variety of styles. This ensemble provides the opportunity to strengthen improvisational skills. Membership is open to all qualified students. Repeatable for credit.
Course Fee.

MUS 161 - Chequamegon Symphony

0 - 1 Credits Students participate in a college-community orchestra that performs major orchestral repertory during a season of three or four concerts. Repeatable for credit.
Course Fee.

MUS 171 - Chamber Choir

0 - 1 Credits An extension of Northland Singers, Chamber Choir explores music written for small vocal ensembles. Singers have opportunities to perform music from a number of different style periods, with an emphasis on music from the Renaissance. Students perform regular concerts and are involved in musical outreach in the community. Repeatable for credit.

MUS 181 - Individual Brass Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 182 - Individual Guitar Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 183 - Individual Percussion Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 184 - Individual Piano Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects

of solo performance.
Course Fee.

MUS 185 - Individual Strings Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 186 - Individual Voice Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in voice. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 187 - Individual Woodwind Lessons

1 Credits Students meet regularly with a faculty member for a specialized, one-on-one instruction in an instrument. Instruction focuses on both technical and interpretive aspects of solo performance.
Course Fee.

MUS 203 - Evolution of American Song

3 Credits This course surveys popular songs, songwriters, and trends in songwriting from the 19th century through the modern era. Students study the nature of melodies, lyrics, changing trends, the creative process, and the social and economic contexts of the music.
Connections Discipline: Humanities

MUS 205 - Story of Jazz

3 Credits This course covers the development of jazz from its African heritage through ragtime, blues, Dixieland, swing, and bop to today's styles. Recordings support the historical-analytical approach to the subject.
Connections Discipline: Humanities

MUS 206 - History of Rock and Roll

3 Credits In this course, students survey Rock and Roll music from its predecessors up to the present day. The elements of music (Sound, Harmony, Rhythm, Melody, Form, and Text) are discussed in the context of Rock and Roll, as are the cultural and sociological influences and implications of this music.

MUS 217 - Music in World Culture

3 Credits This course examines music across a broad and diverse spectrum of cultures, both within the United States and worldwide. The course addresses the intrinsic nature of each type of music considered as well as its function and meaning in its social context.
Connections Discipline: Humanities

MUS 221 - Music and Text

3 Credits Students examine the relationship between text and music in a wide range of musical styles. Discussions include an examination of poetry and metaphor, musical and literary forms, tropes, and transumption of ideas. Students gain experience with art-song, opera, musical theater, as well as select popular genres.
Connections Discipline: Humanities

MUS 231 - Music Theory I

3 Credits This course focuses on the mastery of the fundamentals, diatonic materials, ear-training and sight-singing, as well as the beginning of formal analysis.
Connections Discipline: Humanities

MUS 232 - Music Theory II

3 Credits This course continues the study of formal analysis, including chromatic harmony and 20th century materials, and the mastery of ear-training, and sight-singing.
Prerequisites: MUS 231

MUS 260 - Contemporary Music

3 Credits Students survey important avant-garde and post avant-garde musical works and composers of the 20th and 21st centuries and examine relevant cultural shifts, innovations, and techniques that form the underpinnings of the music. The significant parallels between contemporary music and contemporary visual arts are also addressed. Musical styles such as atonality, serialism, minimalism, electronic and electroacoustic music will be considered.
Course Fee.
Connections Discipline: Humanities

MUS 263 - Music and Nature

3 Credits Through case studies and experimentation, students learn how music can build a sense of community in a variety of natural and cultural settings. Specific topics include campfire songs, adaptive music for the physically challenged, Ojibwa music in the Chequamegon Bay region, African traditions, hybrid and syncretic musics. Students also engage in song writing and develop their own skills with voice and instruments such as the dulcimer, banjo, penny whistle, drums, and keyboard.
Connections Discipline: Humanities or Experiential

MUS 315 - Conducting and Scoring

4 Credits This course addresses conducting, arranging, scoring, and programming choral and instrumental literature.
Prerequisites: MUS 232

MUS 323 - Survey of Musical Styles I

3 Credits This course focuses on Western music from its beginnings through the Baroque era and traces both the religious and secular traditions. Students study major composers and works, with an aural and visual emphasis on the harmonic and formal structure characteristic of each.
Connections Discipline: Humanities

MUS 324 - Survey of Musical Styles II

3 Credits A continuation of MUS 323, this course focuses on the Classical and Romantic eras, as well as the musical development of the Twentieth Century. Students analyze changing forms and structures through the study of major composers and works.
Prerequisites: MUS 323

MUS 330 - Music Half-Recital

1 Credits This course requires a public performance of 25-30 minutes' duration. Prior to the last day to drop without record, the music faculty must grant permission for a student to continue with this course.
Prerequisites: Instructor Consent

MUS 331 - Music History I

4 Credits This course focuses on Western music from its beginnings through the Baroque era and traces both the religious and secular traditions. Students study major composers and works with an aural and visual emphasis on the harmonic and formal structure characteristics of each.
Prerequisites: MUS 231

MUS 332 - Music History II

4 Credits A continuation of MUS 331, this course focuses on the Classical and Romantic eras, as well as the musical development of the Twentieth Century. Students analyze changing forms and structures through the study of major composers and works.
Prerequisites: MUS 331

MUS 345 - Instrumental Methods

1 Credits This course is a seminar focusing on major issues in elementary and secondary instrumental music and on advanced conducting techniques. Taught by arrangement only.

MUS 430 - Music Full Recital

3 Credits This course involves a public performance of 50-60 minutes' duration. Prior to the last day to drop without record, the music faculty must grant permission for a student to continue with this course.

Native American Studies

NAS 100 - Introduction to Native American Studies

3 Credits This course gives students an overview of the historic and contemporary experiences of Native American peoples in North America. Topics will include: Native identity, labor, politics, philosophy, religion, literature, arts, representation, law and ethics, social justice, and language preservation.
Course Fee
Connections Discipline: Humanities

NAS 121 - Introduction to Ojibwe Language I

3 Credits Students develop an appreciation for the Ojibwe culture through the study of its language and basic expressions.
Course Fee.

NAS 122 - Introduction to Ojibwe Language II

3 Credits This course is a second-semester continuation of NAS 121 Introduction to Ojibwe Language I. Students further develop their appreciation for Ojibwe culture through continued study of its language and basic expressions.
Prerequisites: NAS 121

NAS 160 - Lake Superior Ojibwe

4 Credits Part of the Superior Connections Program, this course focuses on the various Ojibwe people who have resided in the Western Great Lakes region. Students study these cultures from pre-contact time to the present and develop an understanding of and appreciation for the history, culture, and traditional teachings of the indigenous people of the Lake Superior Watershed.
Course Fee.
Connections Discipline: Humanities
Corequisites: XHH 115 and ENG 126

NAS 210 - Native American Cultures in Wisconsin

3 Credits Students study Native cultures who have resided in Wisconsin from pre-history to the present. The course focuses on historical and cultural aspects of the Algonquian, Siouan, and Iroquoian language families, their relations to one another, to the European colonists, and later to the Americans. Students gain insight and understanding of cultures that are much different than that of the White American.

NAS 211 - Native American History and Experience

3 Credits

This course explores the diverse histories of Native communities from pre-contact to the present with a focus on communities from this region. Topics include traditional societies prior to European contact, the complex interactions after contact, the growing impact of colonialism on Native peoples, survival and resistance, treaties and Indian removal, Federal Indian policies, Native people in 20th century wars, Red Power activism, Indian self-determination, and the relationship between historical and contemporary issues in Native communities.

Course Fee.
Connections Discipline: Humanities

NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues

3 Credits This course focuses on the cultures and histories of Wisconsin Native peoples and communities from pre-contact to the present. Topics include their relations to one another, their complex interactions and responses to European contact, the impact of European and American colonialism, and Native survival and resistance. Students gain insight and understanding of Native peoples of Wisconsin and the relationship between historical and contemporary issues in their communities.
Course Fee.
Connections Discipline: Humanities

NAS 215 - Native American Women's History

3 Credits Students explore the diverse lives and experiences of Native American Women with a particular emphasis on how Native women have contributed in critical ways to the economic, political, social, and spiritual well being of their communities and how they have played a key role in the history of Native American survival and resistance to American colonialism. Specific topics include: gender and identity in Native American societies; stereotypes and historical representations; kinship; activism and leadership; land, labor and tribal economies; the arts and material culture; colonization and decolonization; and tribal sovereignty.

NAS 216 - Indigenous Representations

3 Credits Students are introduced to the historic and contemporary portrayals of Native and Indigenous peoples and cultures through a variety of popular media. This course emphasizes the critical examination of stereotypes and the ways in which Native and Indigenous peoples have reclaimed their cultural identities through various self-representation strategies aimed at resisting persistent negative depictions and empowering their communities.
Course Fee
Connections Discipline: Humanities

NAS 221 - Intermediate Ojibwe Language I

3 Credits Guided by a faculty mentor, students complete a self-instructional course designed to help them recapture or expand their knowledge of the Ojibwe language. Offered by arrangement.
Prerequisites: NAS 122

NAS 222 - Intermediate Ojibwe Language II

3 Credits This course is a second-semester continuation of NAS 221 Intermediate Ojibwe Language II. Offered by arrangement.
Prerequisites: NAS 221

NAS 224 - Introduction to Tribal Legal Studies

3 Credits Students study the unique relationship between the United States government and American Indian tribes, with a particular focus on tribal sovereignty, civil and criminal jurisdiction, the status of Indian lands, hunting and fishing rights, and recent federal and Supreme Court decisions pertaining to Indian tribes.
Course Fee.
Connections Discipline: Social Science

NAS 225 - Native American Woodland Skills

3 Credits Students study traditional skills of peoples indigenous to the woodland environment and gain broad exposure to skills used by native people throughout the world. This class takes place mostly outdoors, in an experiential, hands-on work environment. One weekend trip (midsession break) is required.
Course Fee.
Connections Discipline: Experiential

NAS 227 - Food Sovereignty

3 Credits Using a social movement perspective, students explore the history of the food sovereignty movement, policies, and local community action. Students learn more about traditional culture, water rights, treaty rights, gathering and growing food and community empowerment. There is a service-learning component, where students spend time in local

Native community gardens and orchards.
Course Fee
Connections Discipline: Social Science

NAS 231 - Native Arts, Media, and Sports

3 Credits Students learn traditional Native art form(s) and gain knowledge about indigenous art and artists, traditional and contemporary forms of music, Native and indigenous contributions to film, and traditional Native sports and athletes today.
Course Fee.
Connections Discipline: Humanities

NAS 239 - Native American Storytelling

3 Credits Students develop research, study, and presentation skills in storytelling. They also develop an understanding of the overall role that the oral tradition plays in Native American culture through a study of Native American legends, stories, and mythologies.
Course Fee.
Connections Discipline: Humanities

NAS 283 - American Indian Literature

3 Credits Students survey literature by Native American and non-Native American writers. Coursework acquaints students with both written and oral traditions of American Indian people through reading, writing, lecture, and discussion.
Connections Discipline: Humanities

NAS 300 - Ethnobiology

3 Credits Students study Native American lifestyles as they relate to the natural environment and learn how Native American people made use of plants and animals to meet their basic needs: food, shelter, clothing, and medicines. The course is oriented toward fieldwork and projects incorporating the traditional lifestyle of Native American people.
Course Fee.

NAS 305 - Global and Comparative Perspectives

3 Credits Students explore the diverse geographic, economic, political, cultural, and historical consequences of European expansion, imperialism, and colonialism for indigenous peoples. They examine these issues through a range of theoretical frameworks and study comparative case studies from around the world.
Course Fee.
Connections Discipline: Humanities
Prerequisites: NAS 160, NAS 211, NAS 212, NAS 224, NAS 315, NAS 333 or SOC 214

NAS 306 - Global Indigenous Politics

3 Credits This course explores common themes of Indigenous political activity such as sovereignty, social movements, and sustainable development. Students examine both the global indigenous social movement as a political force of alliance, and some locally-situated movements in different parts of the world.
Course Fee
Connections Discipline: Social Science
Prerequisites: Junior Status or Instructor Consent

NAS 315 - American Indian Environmental Perspectives

3 Credits This course engages students in examining issues and actions of historical and contemporary Native Americans relative to their environment and world views. A people's relationship with, perspectives, and use of land and resources provide valuable understanding of their relationship to the natural world. Students engage with guest speakers, analyze video interviews, and read widely from historical and contemporary research.
Prerequisites: Any 200-level NAS Course

NAS 319 - Northern Plains Cultures

3 Credits Students engage in an advanced and detailed study of the cosmology at the heart of the North American continent. The rich history and complex systems of the Northern Plains nations are a central focus of the course, and through them students develop an appreciation for the role that the Plains people have played in shaping America.
Prerequisites: Any 200-level NAS Course

NAS 325 - Native Youth Empowerment

3 Credits Through the lens of Indigenous traditions and contemporary societal norms, students explore the current world of Native youth today. Students gain a better understanding of the challenges Native youth face today. They also learn ways to work within Native communities to make positive, effective change for youth and families.
Course Fee
Connections Discipline: Social Science
Prerequisites: Junior Status or Instructor Consent

NAS 333 - Native American World Views

3 Credits Students study Native American world views as they are expressed in the philosophy, beliefs, and values of the people. Because Native Americans had no written language, this course emphasizes traditional teachings as they are conveyed orally by elders. Specifically, the course focuses on teachings found in natural phenomena and in

the various sacred articles given to the people as gifts from the spirit world.
Connections Discipline: Humanities

NAS 360 - Native Leadership & Ethics

3 Credits Using various traditional and modern philosophies and models, students gain a solid foundation of ethics and leadership scholarship. They explore the unique opportunities and challenges of effective leadership in terms of elected leadership and community-based organizers in Native communities. Students also analyze how outside corruption and internalized oppression have influenced modern tribal communities.
Course Fee
Connections Discipline: Humanities
Prerequisites: Junior Status or Instructor Consent

NAS 479 - Native American Studies Seminar

3 Credits Students study classic frameworks as well as new developments that have shaped the field of Native American Studies. They explore the perspectives of Native American scholars, writers, artists, and activists, and how they have addressed a range of issues impacting Native American communities through their work. Students produce an original research project that engages with the themes of the course.
Course Fee.
Prerequisites: Any 200- or 300-level NAS course

Natural Resources

NRS 101 - Fur-Bearer Ecology and Management

1 Credits This hands-on learning experience with educators from the Wisconsin Department of Natural Resources and the Wisconsin Trappers' Association addresses fur-bearer trapping and management in Wisconsin. Students learn about trapping, skinning, and processing pelts as well as how to identify Wisconsin fur bearers, their ecology, and best management practices. Additionally, students engage in dialogue with trappers, biologists, and conservation wardens about the merits and ethics of trapping.
Course Fee.

NRS 102 - Wildland Firefighter Training

1 Credits This course is a certification training course in wildland fire fighting. Certifications include I-100, S-130, S-190, and L-180. Lectures cover safety, fire weather, fire behavior, and firefighting equipment. An experiential field day focuses on map and compass use, fire line creation, fire shelter deployment, and familiarity with firefighting trucks and dozers. Students who pass the course and the federal pack test (which they must arrange on their own) are eligible to receive a red card.
Course Fee.

NRS 103 - Wolf Ecology & Management

1 Credits Working with educators from Northland College, the Wisconsin Department of Natural Resources, and the Timber Wolf Alliance students will learn the history, biology, ecology, monitoring methods, management, and research of wolves in Wisconsin. Students will also explore the future of wolf management and conservation. Students learn how to differentiate between wolves, dogs, wolf-dog hybrids, coyotes, and other carnivores using skulls, furs, tracks, and trail camera images. Through hands-on exercises students learn the basics of radio-telemetry monitoring, trail camera placement, research trapping, howl surveys, and more. Students are required to complete one howl survey within the month of September outside of class time. Course meets Friday, Saturday, and Sunday, once during the semester in the month of September.
Course Fee

NRS 105 - Carnivore Tracking

1 Credits Educators from Northland College, the Wisconsin Department of Natural Resources, and the Timber Wolf Alliance teach students the fundamentals of carnivore tracking. Students learn how to identify carnivores from informational lectures, demonstrations, and direct experience. Class includes a field trip to track carnivores. Students are required to complete one snow track survey within the month of February outside of class time. Course meets Friday, Saturday, and Sunday, once during the Winter semester in the month of February.
Course Fee

NRS 215 - Natural Resources Policy

3 Credits Students explore the role of state, federal, tribal, and international agencies in managing natural resources. Students also analyze the history of significant legislation and policy to determine their current impact on resource management, especially focusing on local and Great Lakes issues.
Course Fee.
Prerequisites: BIO 115 or BIO 128

NRS 225 - Fisheries and Wildlife Techniques

4 Credits Students learn field techniques and use them to sample fish and wildlife populations. This is an intensive field experience that will help prepare students to function as field biologists.
Course Fee.
Connections Discipline: Experiential
Prerequisites: Natural Resource major and BIO 234

NRS 325 - Stream and Watershed Ecology

4 Credits Students explore the biological, chemical, and physical components of stream and watershed structure and function. Lectures focus on the processes of stream formation and the factors that control sediment run-off, nutrient cycling, species abundance and distribution. Particular emphasis is placed on the role that the upland watershed plays in the determination of stream function. Laboratory exercises focus on the field observation and analysis of the on-campus watershed and stream as well as a comparison of this system to additional off-site watersheds.
Connections Discipline: Natural Science
Prerequisites: BIO 234

NRS 345 - Ecological Restoration

4 Credits This course focuses on understanding both the relevant underlying principles of ecology and the practical nuts-and-bolts of designing and implementing restoration plans. Students study plant communities, design concepts, assessment techniques, and prescribed fire to integrate theory and practice while planning a project for an outside client.
Course Fee.
Prerequisites: BIO 234

NRS 346 - Applied Restoration Ecology

3 Credits Part of a Round River Conservation Studies semester program, students in this course participate in restoration activities within the site of a new national park in Patagonia. Field work is supplemented by lectures, readings, and discussion, and students learn the principles of restoration ecology, as well as the methods, planning process, evaluation criteria and challenges of applied restoration work.
Connections Discipline: Experiential
Prerequisites: Admittance to the Round River Program

NRS 347 - Sustainable Forest Management

4 Credits Students study forest stewardship techniques and certification policies aimed at balancing long-term ecological, economic, and social needs. Students take frequent field trips to observe examples of forests being managed for multiple uses.
Prerequisites: BIO 234

NRS 348 - Wildlife Ecology and Management

4 Credits This course surveys the theories and management of wildlife populations, including population dynamics, life histories, habitat management, census techniques, and endangered species. Students gain insight and experience through field trips to local areas of interest.
Course Fee.
Prerequisites: BIO 234

NRS 349 - Fisheries Science and Management

4 Credits Students learn and use modern statistical methods to estimate vital parameters of exploited fish populations, including abundance, age, growth, mortality, condition, and size structure. Students also explore basic concepts and specific methods for managing fish populations and the people who use them. Concepts are reinforced by examining real issues and collecting and analyzing real data through the scientific literature and field trips with local resource agencies.
Course Fee.
Connections Discipline: Experiential
Prerequisites: MTH 107, BIO 234, and BIO 242

NRS 358 - Wetlands

4 Credits Students study the ecology, biology, conservation, and management of wetlands. A series of field trips to regional wetlands introduce students to the natural history and classification of wetlands.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: BIO 234

NRS 361 - Forest Mensuration

4 Credits Students are trained on the principles and application of tree-stand inventory and measurements to estimate growth and yield of forestry resources. This course includes a significant field component.
Prerequisites: BIO 234

NRS 363 - Fire Ecology and Management

3 Credits Students study the ecology, history, and management of fire, with particular focus on the chemistry and physics of fire, fuel loads and weather influences on fire, fire suppression, prescribed fire, and fire policies.
Prerequisites: BIO 234

NRS 365 - Conservation of Large Carnivores

3 Credits This interdisciplinary course focuses on the conservation and ecology of large carnivores. Students learn about large carnivore conservation around the world by examining various case-studies of current conservation initiatives and studying the natural histories of the world's large carnivores. Case-studies focus on particular carnivore species and the scientists, conservationists, and local people who strive to balance human livelihoods and carnivore conservation. Topics include: population ecology, human-wildlife conflict, conservation genetics, reintroduction, metapopulations, sociopolitical conflict over carnivore conservation, trophic cascades, conservation

planning, poaching, and habitat conservation.
Prerequisites: BIO 234

NRS 370 - Living with Wildlife: Wildlife Conservation Policy in Africa

3 Credits Part of a Round River field experience, this course introduces students to the unique conservation policy of Namibia, focusing on the emergence of policy and legislation and devolving natural resource ownership and rights to private landowners and local communities. Students study in detail how this policy effects community-based resource development in Namibia.
Connections Discipline: Experiential
Prerequisites: Completion of a 2-course block and Admittance to the Round River Program

NRS 425 - Silviculture and Harvest

4 Credits Students study forest stand establishment, composition, structure, and dynamics, with particular focus on the role of silvicultural manipulation and harvest. This field-based course focuses on silvicultural and timber harvesting practices of forest species in the Upper Great Lakes Region.
Prerequisites: NRS 361

NRS 464 - Wolf Ecology, Management, & Research

2 Credits This two-part course: 1) provides students with a deep understanding of wolf ecology and management via in class lectures, guest lectures from agency, tribal, and nonprofit professionals, and field experiences, and 2) provides a hands-on opportunity for students to become engaged in applied wolf research. Throughout the course of the class students develop an applied research project focused on achieving broader effects beyond the scope of the class (i.e., impact wolf management or environmental education activities). Flexible schedules and out-of-class activities are expected. The class includes at least one mandatory weekend trip. Students may be expected to travel to remote areas of northern Wisconsin to conduct field research.
Course Fee
Connections Discipline: Experiential
Prerequisites: BIO 234 or NRS 164 with instructors consent

NRS 480 - Integrated Ecosystem Management

4 Credits Integrated Ecosystem Management is grounded in an interdisciplinary understanding of the ecological, social and economic systems that sustain human well-being. Students apply the skills and concepts acquired in previous natural resource courses to collaboratively solve real-world management challenges from an ecosystem-based perspective. The course includes lecture, laboratory and seminar material; however, the focus of the curriculum is the development of student-directed group

projects that enhance the management of regional ecosystems.
Prerequisites: BIO 234

Outdoor Education

OED 105 - Introduction to Outdoor Education

3 Credits Students survey the outdoor education profession and methods used by outdoor educators. Topics commonly covered in the course include adventure education, environmental education, Native American studies, therapeutic and universal programming, and the interpretation of the biological and geological land base. Field experiences are integral to the course.
Course Fee.

OED 107 - Basic Canoeing

1 Credits This course is designed to give beginning canoeists a correct start, the tools to self-critique, and the means to continue to improve. It will emphasize strokes and boat handling skills for flat and moving water, basic rescue techniques, and principles of risk management. Fee. Offered spring and alternate fall terms.
Course Fee

OED 108 - Basic River Kayaking

1 Credits Students practice paddling and risk management techniques for flat, moving, and whitewater boating. They develop skills in basic strokes and rolling. River practice during the course focuses on up- and down-stream ferries, the eddy turn, the peel out, wave surfing, and basic river rescues. Course fee.
Course Fee

OED 109 - Basic Sea Kayaking

1 Credits Preparation for sea kayak expeditioning, basic strokes, rescues, hazards of the Great Lakes, navigation, equipment overview, and transportation will all be covered.
Course Fee

OED 110 - Wilderness Navigation

1 Credits

Students will study a range orienteering and land navigation skills, including map reading, compass use, and map and compass techniques. Participants will run a progression of orienteering courses and learn the basics of orienteering course setting. Fee. Offered Spring and alternate fall terms.

Course Fee

OED 111 - Cross-country Skiing

1 Credits Students study equipment, base preparation, waxing, and winter risk management. Regular tips provide opportunities to develop basic skills in classical and/or skating techniques, depending on snow conditions and student interest.
Course Fee

OED 112 - Telemark & Backcountry Skiing

1 Credits In this introductory course, students learn the Telemark turn and its application in different snow conditions. Students also learn methods for backcountry travel, the basics of risk management in a winter environment, and how to use backcountry equipment in specific situations.
Course Fee

OED 114 - Basic Rock Climbing

1 Credits Students study and practice risk management, belaying, anchor systems and set-ups, rappelling, climbing techniques, knots, and basic rescue. Top rope climbing only.
Course Fee

OED 116 - Backpacking

1 Credits In this introductory backpacking course, students study equipment, clothing, menu planning, basic cooking skills, map and compass navigation, on-trail hiking techniques, risk management, and minimum impact camping. An off-campus trip provides an opportunity to practice basic backpacking skills.
Course Fee

OED 131 - Outward Bound Course

1 Credits See Outdoor Education faculty or the Outward Bound website for more information.
Course Fee.
Connections Discipline: Experiential

OED 180 - Outdoor Orientation Training

1 Credits This course is required for students who lead Northland College Outdoor Orientation trips. Students learn trip planning, effective use of outdoor equipment, minimum-impact techniques, map and compass use, and strategies for teaching backcountry skills. Students also explore personal leadership in an outdoor setting.

Participation in weekly trip-planning meetings and completion of a CPR course are required. Graded S/U. Non-repeatable.

OED 181 - Outdoor Orientation Leader

1 Credits This academic credit is awarded to student leaders after they successfully lead their Northland College Outdoor Orientation trip. Student leaders are evaluated on the extent to which they fulfill expectations throughout the planning and implementation phases of their trips. Graded S/U. Repeatable.
Prerequisites: OED 180

OED 210 - Inclusive Outdoor Education

3 Credits Students explore topics of inclusion in the outdoor education profession. Topics may vary to take advantage of local and regional opportunities, but the primary emphasis will be on the inclusion of people with impairments and disabilities in outdoor experiences.
Course Fee.

OED 221 - Group Process and Leadership

4 Credits Students learn and develop skills in group process management and leadership. Topics covered include group formation and development, norms, leadership, facilitation, conflict resolution, and evaluation.
Connections Discipline: Social Science

OED 222 - Exploring the Human Animal Connection

4 Credits Students in this class explore and consider the ways in which humans interact with the animal world in the contexts of food, food production, habitat, environmental impact, and ethics. Topics include farming practices, hunting, and fishing.
Connections Discipline: Social Science

OED 224 - North Woods Pathways

4 Credits Students explore the rich history of paths and trails in the North Woods and throughout the world. Students survey the rich literature and traditions of walking while also hiking portions of some significant regional trails. This course involves keeping a journal and contemplating one's path on the journey of life.
Course Fee.
Connections Discipline: Humanities

OED 237 - Woodscraft and Woodland Skills

2 Credits This course introduces students to skills and knowledge useful for living out-of-doors with minimal equipment. Students will learn how to use edged and self-made

tools to manufacture items from the immediate surroundings. Skills will include: fire by friction, shelter, edible plant identification, animal tracking, and other general woods-knowledge.
Prerequisites: OED 221, OED 276, and Junior or Senior Standing
Corequisites: OED 324, OED 326, and OED 381

OED 240 - Wilderness Emergency Care

4 Credits This introductory foundations course focuses on the anatomy and physiology of major systems in health, injury, and disease to explain emergency care procedures in both the urban environment and the extended care context of the wilderness. Students study and practice diagnostic methods, problem solving, improvisation, risk management, and leadership.
Course Fee.

OED 261 - Environmental Education Curriculum Review

4 Credits This course provides a broad survey of environmental education activities and practice from around the world. Coursework prepares students to discuss the history, engage in current practices, and develop effective programs in environmental education. This course meets environmental education requirements for teacher licensure in Wisconsin.
Course Fee.

OED 270 - Facilitating Challenge Course Programs

4 Credits Students will study and apply educational theories and strategies underpinning the use of initiative activities and Challenge Courses for personal growth and team building. Students will facilitate peer- and community-based programs using initiative and challenge course activities to enhance group communication, conflict resolution, and problem-solving skills.
Course Fee.

OED 272 - Accident Theory and Analysis

3 Credits Are humans hard-wired to take risks? Does the structure and function of the human brain contribute to accidents? Why do so many efforts to reduce accidents, paradoxically, result in more accidents? Students explore these and related questions through the lenses of organizational theory, psychology, sociology, neuroscience, and education. Numerous case studies provide context and practical experience in accident analysis.
Connections Discipline: Social Science

OED 276 - Foundation and Principles of Outdoor Education

3 Credits Students explore the historical and philosophical foundations of the diverse emphases and uses of outdoor and experiential education. Students develop their own philosophy of education along with strengthening their educational strategies and practice.

OED 279 - Access and Diversity

3 Credits Students study development of inclusive attitudes toward people with disabilities and other power-down members of society. Topics include an introduction to barrier-free outdoor programs, characteristics and needs of a variety of populations, and the use of activities to promote self-actualization.
Course Fee.
Connections Discipline: Social Science

OED 282 - Outdoor Education Practicum

4 Credits Students lead environmental education lessons at the Audubon Center of the North Woods and for Minnesota charter schools. Lessons are developed on the basis of field investigations and environmental education techniques and strategies. Peer evaluations of lessons are integral to the course.
Connections Discipline: Experiential

OED 284 - Native Plant Communities and Management Practice

4 Credits Students investigate Minnesota's Biomes--coniferous forests, deciduous forest, savannah, prairie, aquatic--and the intersection of human history, current issues, and management practices. Meetings with a variety of experts from forests, parks, refuges, and certifying agencies are integral to the course.

OED 285 - Foundations in Adventure Education

4 Credits Students explore the historical and philosophical foundations of the diverse emphases and uses of outdoor and experiential education. Students develop their own philosophy of education along with strengthening their educational strategies and practice.
Course Fee.

OED 287 - Lowering Environmental Impact: Renewable Energy and Sustainable Methods

4 Credits Students learn methods and practices that reduce environmental footprints and create a sustainable planet. Particular foci of the course include renewable energy technology, energy and resource conservation, and sustainable agriculture. Visits to exemplary facilities and with experts are an integral part of the course.

OED 288 - Field Expedition and Investigation

4 Credits Students plan, coordinate, and lead a two-week field expedition to a national park, forest, riverway, wilderness area, or site of cultural or scientific significance. The group defines a guiding question for the expedition, and individual students collect data and conduct research that helps them answer specific questions related to the central question. Presentations on the answers to these questions are integral to the course.

OED 289 - Spring Transition

4 Credits Primarily field ornithology and botany, this is a natural history course that includes surveys of life forms in a variety of plant communities. The course includes bird banding, herpetology surveys, plant keys, data collection, recognition of sounds, and observation techniques. The diverse Audubon Center property and the St. Croix River and Mississippi River drainages are the main focus.
Course Fee.
Connections Discipline: Experiential

OED 322 - Theory of Teaching Physical Skills

3 Credits Students study motor learning and teaching/learning theory, as it applies to physical skills. The course includes the study of techniques for analyzing and classifying skills and movements, modification of activities as appropriate for students of various learning abilities, development of teaching progressions, theories of learning, and teaching techniques.

OED 324 - Water Skills and Water Travel

5 Credits Students study and practice essential elements of safe and efficient flat-water travel. The course focuses on the open canoe: strokes, teamwork, portage techniques, risk recognition and management, trip planning, and leadership in a series of single and multi-day trips.
Course Fee.
Connections Discipline: Experiential
Prerequisites: OED 107, OED 221, and OED 276
Corequisites: OED 237, OED 326, and OED 381

OED 326 - Land Travel, and Camping Skills

5 Credits Students learn and apply the essential knowledge and skills needed to backpack in the wild in a skilled and highly engaged manner. Topics covered include outdoor physiology and survival, equipment selection and use, navigation, food rationing, and sustainability in outdoor education.
Connections Discipline: Experiential
Prerequisites: OED 110, OED 114, OED 116, OED 221 and OED 276
Corequisites: OED 237, OED 324, and OED 381

OED 328 - Wilderness Writers and Philosophers

3 Credits Students explore the development of the idea of wilderness from the Pleistocene to the present. Course work includes readings, discussion, wild land experience field days, guest speakers, and reflection papers.
Connections Discipline: Humanities
Prerequisites: OED 221 and OED 276 or Instructor Consent

OED 330 - National Outdoor Leadership School Course

1-4 Credits National Outdoor Leadership School. Contact Outdoor Education faculty or see NOLS website for more information.
Connections Discipline: Experiential

OED 331 - Outward Bound Course

1 - 3 Credits See Outdoor Education faculty or the Voyageur Outward Bound website for more information.
Connections Discipline: Experiential

OED 332 - Winter Travel and Living Skills

4 Credits Students learn skills essential to travelling and living in winter environments, including cross-country skiing and snowshoeing techniques. In addition, students study physiology, nutrition, equipment, ice safety, avalanche awareness, snow shelters, and traditional “hot tent” and toboggan travel.
Course Fee.
Connections Discipline: Experiential
Prerequisites: OED 324, OED 326, OED 328, and OED 381

OED 361 - Interpretive Program Design

3 Credits Students explore methods and strategies for designing and evaluating interpretive programs for the public. Topics include the use of firsthand experience, storytelling, displays, living history, nature trails, audio-visual materials, and publications to communicate the natural and cultural environments effectively and to interest a variety of audiences. Provides opportunities for peer teaching, individual and group presentations, and community outreach.

OED 362 - Apostle Island School Preparation

0 - 1 Credits Students meet over the winter term to begin planning for the May-term course, OED 363 Apostle Islands School. The planning time is used to develop the teaching team; impart information about the schedule and logistics of Island School; inform students of the unique partnership and responsibilities associated with Northland College, Apostle Islands National Lakeshore and participating middle schools; access resources to learn more about the Apostle Islands; visit with participating schools; and, begin developing the three-day program to be implemented in May.

OED 363 - Apostle Islands School

4 Credits Students work with National Park Service rangers to plan, deliver, and evaluate residential and day-long environmental education and outdoor education activities in the Apostle Islands National Lakeshore for regional 6th and 7th graders. Lessons include Lake Superior, beach ecology, Northern forest ecosystems, sustainable tourism, wilderness travel, cultural history, shipwrecks, and much more.
Connections Discipline: Experiential
Prerequisites: OED 261

OED 371 - Philosophy of Experiential Education

3 Credits Students examine the historical and current pedagogies of outdoor and/or experiential education. Topics include the basic premises of experiential education, its philosophical foundations, and an exploration of its strengths and limitations. Students are encouraged to develop a personal educational philosophy as well as strategies to experientially teach a variety of concepts, skills, and attitudes.

OED 378 - Adventure Programming and Leadership

4 Credits Students study and practice leadership techniques for individuals and groups combined with programming principles that include philosophy, needs assessment development, implementation, and evaluation of recreational programs. Theory is applied through a series of actual programming experiences.
Prerequisites: OED 221

OED 379 - Therapeutic Design

4 Credits Students examine outdoor education as it is used in a therapeutic context. The course exposes students to the use of goals, objectives, program design, and development for prescriptive programs. Students apply theory in cooperative partnerships with community agencies.
Prerequisites: OED 221

OED 381 - Outdoor Education Teaching Techniques

5 Credits Building upon broad educational, psychological, social, and motor-learning theories, students gain knowledge of and exposure to a wide variety of teaching techniques used within the profession of outdoor education. Students apply new skills and knowledge through on-campus and community-teaching opportunities.
Prerequisites: OED 221 and OED 276
Corequisites: OED 237, OED 324, and OED 326

OED 383 - Ecological Ecosystem Interpretation

8 Credits This course trains students to interpret the full ecology of an area, including geological, animal, plant, human and meteorological factors. Emphasis is on field application of previous coursework to make the on-campus, in-class experiences come alive. Field experiences include trips to northern Minnesota and such topics as fire ecology, hardwood and coniferous forests, prairies, plant and animal distribution, natural patterns in ecological systems, and present and historic human uses and effects upon the land. Students keep field interpretive journals, interpret from maps and other resources, and complete field projects.

OED 420 - Topics in Wilderness Emergency Care

4 Credits Students investigate selected topics in wilderness medicine, with the emphasis on sports injuries, environmental illnesses, and areas of personl interest. Students learn about joint structure, how to assess and treat injuries to joints, and basic taping techniques.
Course Fee.
Prerequisites: WFR Certification or OED 240

OED 424 - Outdoor Education Programming and Risk Management

4 Credits In this course, students study the elements of quality programming and effective risk management for a wide range of outdoor education applications. When appropriate, students apply their design and risk management skills to programs within the college's co-curriculum, ed-ventures, or the broader community.
Course Fee.
Prerequisites: OED 324, OED 326, OED 328, and OED 381

OED 425 - Advanced Topics in Natural History

3 Credits Students survey the rich field of natural history. Topics include the natural history essay, educators, and the use of natural history in diverse education programs. Students also explore the use of natural history in the creation of a meaningful and sustainable human-nature relationship. Students read widely in the field, engage in research and development of natural history topics, and present their work to colleagues in the class and community.
Prerequisites: Junior or senior Standing, or Instructor Consent

OED 430 - National Outdoor Leadership School Semester

12 Credits National Outdoor Leadership School. Contact Outdoor Education faculty or see NOLS website for more information.
Connections Discipline: Experiential

OED 431 - Outward Bound Semester

12 Credits See Outdoor Education faculty or the Voyageur Outward Bound website for more information.
Connections Discipline: Experiential

OED 437 - Universal Design Laboratory

4 Credits Students explore the application of inclusion and universal design to outdoor education in a laboratory-style course. Students engage in individual projects, designing curricula, equipment, or products to promote inclusion and to experience the practical implications of universal design within the outdoor education profession.
Course Fee.
Connections Discipline: Experiential
Prerequisites: OED 324, OED 326, OED 328, and OED 381

OED 439 - Therapeutic Principles and Practices

4 Credits Students explore current therapeutic applications and research in the field of outdoor education. Current literature and case studies are used to teach and apply a range of therapeutic principles and practices. The primary focus is on Adventure Therapy but may vary with student interests. Students interested in working with at-risk or adjudicated adolescents in outdoor settings are encouraged to take this class.
Course Fee.
Prerequisites: OED 276, PSY 110, and Junior Standing or Instructor Consent

OED 446 - Wilderness Instructor Training

4 Credits Students plan and participate in a 3-week wilderness expedition. While traveling by land or water, students study and practice navigation, cooking, campcraft, technical skills, risk management, group process, leadership, and teaching techniques.
Course Fee.
Connections Discipline: Experiential
Prerequisites: OED 237, OED 324, OED 326, OED 381, and Instructor Consent

OED 470 - Enduring, Emerging Issues in Outdoor Education

3 Credits This course explores multiple perspectives on key debates within the field. These include the role of technology in the wilderness, the value of motorized recreation, the trend of certification and accreditation, access for individuals with disabilities, the value of "virtual" adventure programs, the rights of organizations to restrict membership based on personal characteristics, and what it means for outdoor programs to be "sustainable."
Prerequisites: Junior or Senior Standing or Instructor Consent

OED 481 - Outdoor Orientation Student Director

4 Credits The Student Director assists the Outdoor Orientation coordinator by guiding the Steering Committee, implementing the outdoor leadership training program, overseeing the successful completion of Outdoor Orientation trips, coordinating outdoor trips with other on-campus Orientation activities, and maintaining communications with trip leaders and new students. This position requires participation in the trip planning and training class during the winter semester, availability for summer work-study employment, and program wrap-up and evaluation that extends into the first weeks of the fall semester.
Prerequisites: OED 180

OED 496 - Outdoor Education Capstone

3 - 4 Credits The outdoor education capstone is a full-time, 10-12 week intensive teaching or leadership practicum within a professional outdoor education environment. It is intended to be a culminating opportunity for students nearing graduation to hone their teaching and leadership skills in a professional setting. The capstone may be taken after completion of the required Outdoor Education Professional Development Block. Capstone experiences are chosen in consultation with and require approval from faculty in the outdoor education program.

Physical Education

PED 132 - Lifeguard Training

2 Credits Students learn rescue techniques, lifeguard etiquette, and pool maintenance. Students who successfully complete the course earn the American Red Cross certification in Lifeguard Training. Before enrolling in this course, students should have strong swimming skills and hold current AARC First Aid and CPR certifications.

PED 133 - Water Safety Instructor

2 Credits Students analyze aquatic skills and hydrodynamic principles and develop teaching methods. Students who successfully complete the course earn American Red Cross certification to teach swimming lessons.

PED 202 - Sports Medicine

3 Credits Students study the causes, prevention, and treatment of sports injuries. They also gain practical experience in first aid, taping, and training techniques.

PED 240 - Sports Safety Training

2 Credits Students who successfully complete this course earn Red Cross certification at the advanced first aid level.

PED 300 - Theories and Techniques of Coaching

3 Credits Students develop an understanding of general coaching fundamentals as well as techniques for coaching specific sports. The course includes four hours of lab.

PED 301 - Musculoskeletal Anatomy

4 Credits This specialized course features an in-depth study of human skeletal, articular (joint), and muscular systems, including their structure, function, and interactions. Students develop conceptual understandings and explore applications rather than memorize details.

PED 303 - Analysis of Human Performance

4 Credits Students study the principles of Exercise Physiology and their application to physical activities. Particular attention is given to bioenergetics, the physiology of muscular contraction, neural control and feedback mechanisms, and their application.
Prerequisites: PED 301

PED 400 - Organization and Administration of Athletics

3 Credits Students study the organization of athletics and athletic teams; administrative problems of athletics in relationship to individual, school, community, and state requirements; principles of officiating; the place of intramural and interscholastic athletics in the academic curriculum; and control and care of an athletic plant.

Philosophy

PHL 225 - Ethics

3 Credits Students explore contemporary moral problems and their relationship to applicable ethical concepts and theories, such as right and wrong, moral agency and responsibility, moral value, law and morality, and justification of ethical assertions.
Connections Discipline: Humanities

PHL 226 - Environmental Ethics

3 Credits Students study ethical responsibility with regard to the natural world and gain practical experience by investigating the ethical dimensions of current environmental issues.
Connections Discipline: Humanities

PHL 229 - Introduction to Philosophy

3 Credits Students study the fundamental questions, issues, and methods of philosophy. Specific topics include seminal ideas from philosophy of religion, philosophy of science, theories of knowledge (epistemology), ultimate reality (metaphysics), and moral

philosophy (ethics).
Connections Discipline: Humanities

PHL 262 - Environmental Philosophy

4 Credits In this course students survey main areas of environmental philosophy, including environmental ethics, European environmental philosophy, ecofeminism, political ecology, and environmental aesthetics. Students explore and develop their own philosophical attitudes toward the environment and environmental issues.
Connections Discipline: Humanities

PHL 266 - Environmental Aesthetics

4 Credits Students explore how aesthetic values of nature inform environmental ethical decision making and how culture influences the way that individuals appreciate nature. Integral to the course is an examination of how underlying Western environmental aesthetic values compare to traditional Japanese aesthetics.
Connections Discipline: Humanities

PHL 270 - Philosophy of Science

4 Credits This course focuses on the philosophical thought associated with scientific revolutions and the scientific method specifically. Through discussions and readings, students examine the successes of modern science as well as critiques of its methods and philosophical underpinnings.
Connections Discipline: Humanities

PHL 276 - Logic

3 Credits

This course will emphasize learning to use symbolic logic to diagram and analyze deductive arguments, and to carry out proofs to derive conclusions. Basic predicate logic and quantification will be covered, as well as informal fallacies. Applications to real life arguments will be stressed.

Connections Discipline: Quantitative Reasoning

PHL 282 - Contemporary Western Philosophy

3 Credits A survey of the major ideas and currents in Western philosophy from the late 1800s through the 1900s. Areas will include analytic philosophy, existentialism,

phenomenology, ordinary language philosophy, and neo-pragmatism.
Connections Discipline: Humanities

PHL 330 - Philosophy of Language

3 Credits In this class students will explore the meaning of meaning from various philosophical perspectives. Topics include sense and nonsense, rules, mataphor, the role of context, and the alleged limits of language. We will take a theme-based rather than a chronological approach to the topic.
Connections Discipline: Humanities

PHL 360 - Concepts of Nature

3 Credits An upper level seminar in which we explore conceptual frameworks surrounding the social construction of the concept of 'Nature'. We will look at the tacit assumptions that inform our attitudes, decisions, and behaviors in relation to the natural world, and we will compare European, American, and Japanese models of understanding 'Nature'.
Prerequisites: PHL 226, PHL 262, PHL 266, or HIS 241

Physics

PHY 100 - Physical Science

4 Credits Students study the basic principles of physics, chemistry, geology, meteorology, and astronomy. During the course, students acquire a broad understanding of concepts ranging from chemical reactions, electricity, and stellar evolution to plate tectonics, projectile motion, and future sources of energy. This course includes lab experience with each topic.
Connections Discipline: Natural Science

PHY 104 - Introduction to Astronomy

4 Credits Students investigate general astronomical topics, including the solar system, stars, galaxies, coordinates in space- time, prediction of the position of celestial bodies, constellation identification, and celestial navigation.
Connections Discipline: Natural Science

PHY 110 - General Physics I

4 Credits Students apply a calculus-based approach to the topics of kinematics, dynamics, gravitation, and rotation. In the laboratory portion of the course, students collect, analyze, and graph data.
Course Fee.
Connections Discipline: Natural Science
Corequisites: MTH 140

PHY 111 - General Physics II

4 Credits Students apply a calculus-based approach to the topics of fluid mechanics, oscillations and waves, thermodynamics, and electromagnetism. The course requires a solid understanding of algebra, geometry, trigonometry, and calculus. In the laboratory portion of the course, students collect, analyze and graph data.
Course Fee.
Connections Discipline: Natural Science
Prerequisites: PHY 110 and MTH 140

PHY 211 - Introductory Modern Physics

3 Credits Students survey the basic concepts of modern physics, including special relativity, quantum mechanics, atomic physics, and elementary particles. Students in this course should have access to calculators capable of numerical integration.
Prerequisites: PHY 111 and MTH 141

PHY 306 - Classical Mechanics

3 Credits At an advanced level, students investigate the study of mechanics, including kinematics with non-constant acceleration, rotation of rigid bodies, motion in non-inertial reference frames, two-dimensional collisions, and Kepler's laws of gravitation. The course requires a combination of advanced mathematics and an understanding of fundamental physics.
Prerequisites: PHY 111 and MTH 141

PHY 330 - Thermodynamics

3 Credits An advanced investigation of the laws of thermodynamics. Topics include gas laws, heat transfer, work, entropy, heat engines, the thermodynamic behavior of water and moist air.
Prerequisites: PHY 111 and MTH 141

Psychology

PSY 110 - General Psychology

4 Credits Students integrate the natural and social sciences in the study of human psychology. Topics include history, systems, and methods of psychology; neuroscience; cognition, language and consciousness; lifespan development; motivation and emotion; disorders and treatment; personality and social psychology. Special emphasis is placed on incorporating research from several areas in the analysis of specific topics such as aggression, health, and sexuality.
Connections Discipline: Social Science

PSY 203 - Lifespan Developmental Psychology

3 Credits This course examines physical, cognitive, emotional, and social development over the lifespan, addressing theories and research on development and its influences: what changes and what remains the same, how people differ in their development, and the nature of the stages we pass through.
Connections Discipline: Social Science
Prerequisites: PSY 110

PSY 225 - Experimental Psychology

3 Credits Students apply the scientific method in psychology, including experience in preparing, performing, and reporting psychological experiments.
Prerequisites: PSY 110 and MTH 107.

PSY 227 - Cognitive Psychology

3 Credits An introduction to contemporary research and theory in human learning and memory, relevant perceptual processes, and higher functions such as language.
Prerequisites: PSY 110

PSY 233 - Social Psychology

3 Credits Students explore the behavior and experience of the individual in a social and cultural context. Current theory and research are covered on core topics including: the self, aggression, prosocial behavior, attraction and love, attitudes, prejudice, conformity, and group dynamics. Coursework is focused on applying social psychological principles and practices to current issues related to the environment, health, politics, and the law. Students design and implement an independent research project.
Connections Discipline: Social Science
Prerequisites: PSY 110

PSY 234 - Theories of Personality

3 Credits Students survey theory and research in the study of the individual and examine the complex concept of "personality." The course focuses on a variety of definitions for the term "personality" and their associations with traits, strengths and limitations, motivations, and experiences. Students engage in introspection and analysis as they apply personality theories to better understand their own and others' personalities.
Connections Discipline: Social Science
Prerequisites: PSY 110

PSY 236 - Political Psychology

3 Credits Political behavior provides an excellent opportunity for applying basic psychological research and also driving that research with rich examples. This course focuses on utilizing psychology in understanding real world issues. Topics covered

include social identity, group conflict, leadership, decision making, attitudes and opinions, nationalism, extremism, and international security.

PSY 330 - Leadership for Change

3 Credits Drawing on psychological research at the level of the individual, group, and organization, the class focuses on leadership development and transformative practice as it applies to politics, business, social enterprise, and education. Topics include ethics, storytelling, charisma, systems thinking, crucible experiences, visionary leadership, creativity, and transformation.
Prerequisites: OED 221 or PSY 233

PSY 331 - Ecopsychology

3 Credits This course is an introduction to the field of ecopsychology – its theory, practice, and relevance in a time of ecological crisis. Students study the ecopsychological issues surrounding relationships to self, others, and the rest of nature. Students also explore the role of ecopsychology in promoting a transition to an ecologically sustainable self and society through an examination of personal, economic, and societal challenges to this transition.
Connections Discipline: Social Science
Prerequisites: PSY 110, Junior Status, or Instructor Consent

PSY 342 - Psycholinguistics

3 Credits A detailed examination of issues in the processing of language. The course provides a survey of research and theory in psycholinguistics, reflecting the influence of linguistic theory and experimental psychology. Spoken and written language comprehension and language production processes are examined.
Prerequisites: PSY 110

PSY 345 - Cognition in the Wild

4 Credits A detailed examination of issues in the processing of language. The course provides a survey of research and theory in psycholinguistics, reflecting the influence of linguistic theory and experimental psychology. Spoken and written language comprehension and language production processes are examined.
Course Fee
Prerequisites: PSY 227

PSY 346 - Abnormal Psychology

3 Credits Students study the history of abnormal psychology including classifications of deviant behavior, personality adjustment, assessment, and treatment modalities. In addition, students examine gender, social, and cross-cultural issues through critical analyses of what constitutes a psychological/psychiatric disorder.

Course Fee.
Prerequisites: PSY 110

PSY 431 - Ecopsychology II: Applied

4 Credits In this experiential course, students apply various ecopsychological techniques and participate in related activities. Both techniques and activities share the objective of precipitating closer and more intimate experiences of self, other, and the rest of nature. The implementation value and relevance of these techniques and activities is examined and critiqued from group, individual, gender, and cultural perspectives.
Course Fee.
Connections Discipline: Experiential
Prerequisites: PSY 331

PSY 448 - Capstome

4 Credits The investigation, under guidance, of a special problem in psychology. This course includes the design of the study, the literature search, and development of the research tool, followed by data gathering, analysis, and presentation.
Prerequisites: Senior Status and Psychology Major

Religion

REL 219 - The Nature of Religious Experience

3 Credits Students study the phenomena of religious experience, including mystical, contemplative and meditative expressions, and aesthetic and moral responses. Students read classic texts and biographies and observe a variety of worship experiences and religious expressions.
Course Fee.
Connections Discipline: Humanities

REL 220 - Myth and Ritual

3 Credits Students explore the ways myths shape the human search for meaning, study the narrative foundations of religions while recounting certain myths, and examine a variety of religious rituals as representations of myths in repeated, structured practices.
Connections Discipline: Humanities

REL 229 - Idea of God

3 Credits Students explore the major monotheistic faiths of Judaism, Christianity, and Islam. In addition, students critically examine major issues related to belief in God and the various ways to express those beliefs through the history, scriptures, and worship rituals of each religion.
Connections Discipline: Humanities

REL 230 - Asian Religions and Philosophies

3 Credits Students study the history, beliefs, and practices of the great religious traditions of Asia, focusing on Hinduism, Buddhism, Confucianism, Taoism, and Shinto.
Connections Discipline: Humanities

REL 231 - Buddhism

3 Credits Students survey Buddhist history and philosophy, focusing on the development of Buddhist thought and practice in India, sectarian schools, and the rise of Mahayana and Tantric Buddhism, monasticism, ethics, and meditation.
Connections Discipline: Humanities

REL 234 - Japanese Religious History

3 Credits Students explore the fascinating religious history of Japan. Beginning with pre-historic Japan and the early Chinese records and continuing through to the present, students use indigenous and imported religious ideas as a lens to examine aesthetics, philosophy, environmentalism, and politics in Japanese society.
Connections Discipline: Humanities

REL 235 - Daoism Seminar

4 Credits In a seminar format, students conduct an in-depth study of philosophical and religious Daoism, both in its development in China and Asia, as well as its expressions in the contemporary West.
Connections Discipline: Humanities

REL 241 - Religion in America

3 Credits This survey course examines the role of religion in the history of the United States. We will study the dynamic interaction of religion with other social, political and cultural forces that helped shape and still influence the American experience today. We will explore such questions as: What role have religions played in shaping a diverse American culture? What does it mean to be religious in America, and how have various faiths contributed to personal and communal identity? How have dominant forms of Christianity participated in imperial impulses throughout American history? We will also investigate religious movements that uniquely evolved out of American culture, and the contemporary challenge of evangelical and fundamentalist forms of religion.
Connections Discipline: Humaniities

REL 257 - Death and Dying

3 Credits This course surveys issues related to death and dying, including religious responses to mortality and the search for enduring meaning. Students also explore contemporary cultural responses to death and dying, including the phenomenon of grief

and funeral practices. Study methods include field trips, film studies, and current literature.
Connections Discipline: Humanities

REL 258 - Religion and Nature

3 Credits Students explore the religious dimension of our attitudes and actions regarding nature, including the idea of nature as sacred, the place of humans in the natural world, and ways religious insights seek to guide us in addressing environmental problems today.
Connections Discipline: Humanities

REL 270 - Religion and Human Rights

3 Credits Students engage in an exploration of the meaning and relevance of human rights in the world today, assisted by the use of religious systems and case studies
Connections Discipline: Humanities

REL 273 - World Religions Foodways

4 Credits Using food as an entry point, students investigate the connections between food and religion in world religious traditions, focusing especially on how food rituals relate to religious myths, magic, healing, ethics, and doctrines. Assignments require reading, writing, classroom participation, and completion of a library or field project defined by the student.
Connections Discipline: Humanities
Prerequisites: Growing Connections Enrollment

REL 315 - Christian Thought

3 Credits Students study the historical development of Christian thought focusing on core concepts and the defining debates and major theologians. Studies include the various ways Christians have articulated their understanding of God, the meaning of Jesus, the nature and destiny of life, and the sources and authority of Christian teachings.
Connections Discipline: Humanities

REL 330 - Islam

3 Credits Students study the origins and history of Islam and closely examine religious practices, philosophical and intellectual developments, and the social and cultural dimensions of this major world religion. Students also discuss the relationship of the religion to historical and contemporary conflicts.
Connections Discipline: Humanities

REL 331 - Zen Buddhism

3 Credits In this advanced, undergraduate seminar, students participate in a close, critical study of Zen Buddhist philosophy. The approach is to examine selected Zen Buddhist works in English and to compare and contrast the Zen Buddhist philosophical perspective with certain selected Western religious philosophies.
Connections Discipline: Humanities

Sustainable Community Development

SCD 110 - Introduction to Sustainable Community Development

4 Credits This course provides a background and framework for sustainable community development based on a participatory model. Conceptual learning complements the acquisition and practice of participatory community development skills and project planning through involvement in real-life group projects.
Connections Discipline: Social Science

SCD 142 - Renewable Electricity

2 Credits This course provides an introduction to electrical concepts as applied to renewable energy systems. Students study voltage, current, resistance, power and energy as they apply to solar and wind energy systems. Students also gain hands-on experience wiring, testing, and measuring the electrical performance of photovoltaic (PV) panels and wind turbines.

SCD 144 - Introduction to Photovoltaic (PV) Systems

3 Credits Students study grid-tied and off-grid photovoltaic systems. Topics include solar cells, modules and arrays, site surveys and assessment, batteries, charge controllers, inverters, system sizing, mechanical and electrical integration, utility interconnection, and system cost analysis.
Connections Discipline: Experiential
Prerequisites: SCD 142

SCD 145 - Introduction to Wind Energy Systems

3 Credits Students assess the global energy picture; analyze the causes of wind and wind flow properties; explore small, medium and large wind turbine designs; assess the environmental effects of wind turbines; perform business and site assessments for a wind turbine project, plan a wind turbine project, evaluate operation and maintenance of the turbine system, and future of wind energy.
Connections Discipline: Experiential
Prerequisites: SCD 142

SCD 146 - Photovoltaic (PV) Installation and Maintenance

2 Credits Students learn how to correctly and safely install and configure complete PV systems. Participants identify and interpret NEC codes that pertain to the installation. Component selection, system sizing, monitoring, and troubleshooting are emphasized.
Prerequisites: SCD 144

SCD 147 - Wind Energy System Installation and Maintenance

3 Credits In this hands-on course students learn how to correctly and safely install and configure a wind energy system consisting of a tower, wind turbine, electrical inverter and associated disconnects. Participants identify and interpret NEC codes that pertain to the installation. Component selection, system sizing, monitoring, and troubleshooting are emphasized.
Connections Discipline: Experiential
Prerequisites: SCD 145

SCD 160 - Renewable Energy & Sustainable Design

4 Credits This course offers an introduction to the science of renewable energy and green building design. Topics include an overview of the principles of energy production, an in-depth investigation of various forms of renewable energy and their associated environmental impacts, and design considerations for creating affordable, energy-efficient, environmentally-sound buildings.
Connections Discipline: Interdisciplinary

SCD 215 - Collapse and Sustainability

3 Credits Societal collapse refers to the rapid decrease in social complexity and human population. Societal sustainability deals with meeting the needs of the present without compromising the ability of future generations to meet their needs. This course examines past and present examples of collapse and sustainability and explores future scenarios of contemporary societies and the world.

SCD 220 - Sustainable Community Planning

3 Credits This course introduces students to the community planning process. Topics covered include the components of long-and short-term plans for communities, how to optimize land use, how to deal with proposed facilities for a community, transportation systems in communities, urban and rural community design, among others.
Connections Discipline: Social Science

SCD 225 - Sustainable Development in the Lake Superior Watershed

4 Credits This course offers Superior Connections students a comprehensive survey of sustainable community development initiatives in the Lake Superior watershed and beyond. Over the course of the semester students examine development challenges faced by rural communities in the 21st century, just as they will learn how politicians,

advocates, and activists are confronting those challenges in our own community.
Course Fee
Prerequisites: XHI 200

SCD 230 - The Political Process

3 Credits This course introduces students to the political process. Students will examine how demands are formulated and conducted through the political system. Areas at issue in this course are political culture, socialization and public opinion formation, interest group and social movement activism, electoral processes, political parties and partisan politics, bureaucracy, and the policy process.
Connections Discipline: Social Science

SCD 235 - Forces of Change

3 Credits History is the study of change over time, and it is the duty of the historian and the social scientist in general to identify and evaluate how and why change happens. With the goal of developing holistic agents of change, this liberal education survey considers the variety of social, cultural, political, economic, and environmental forces that have transformed American life.
Connections Discipline: Social Science

SCD 270 - Crossroads Thinking: Problem Solving for the 21st Century

3 Credits Part of the Center for Ecological Living and Learning (CELL) semester abroad programs, this course combines elements of critical and creative thinking and helps students to develop skills in questioning, imagining possibilities, exploring opportunities, analyzing alternatives, synthesizing ideas, and evaluating thought. Through a variety of course activities, students identify essential intellectual traits, question long-held assumptions or biases, evaluate ideas, reason honestly and open-mindedly, problem-solve, and form objective conclusions.
Connections Discipline: Interdisciplinary
Prerequisites: Completion of two-course block or SCD 110 and Admittance to CELL program

SCD 271 - Service Learning: Sustainability Through Community

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, students apply learning from their academic studies to real-life sustainable solutions adopted by their host communities. Students work with community partners to create appropriate and innovative solutions to environmental, economic, cultural, and social challenges. Specific projects are determined by the needs of the local community.
Connections Discipline: Experiential
Prerequisites: Completion of a two-course block or SCD 110 and Admittance to CELL Program

SCD 272 - Sustainability: Secrets of Simplicity

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this interdisciplinary course focuses on innovative strategies and programs in the United States and Central America that address issues threatening global sustainability. Through the study of these strategies and programs, students explore how they might incorporate sustainable practices into their own lives as well as how the principles of voluntary simplicity might contribute to sustainability. The course includes service-learning experiences with organizations such as Heifer International, Grupo Fenix, Association ANAI, and Kekoldi.
Connections Discipline: Interdisciplinary
Prerequisites: Completion of a two-course block or SCD 110 and Admittance to CELL Program

SCD 274 - Human Ecology: Relations Between Humans and the Environment

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course explores the question, "What is the appropriate relationship of human beings to the earth?" To facilitate this exploration, students study specific human and ecological issues facing the people and environments of Costa Rica, Honduras, and Nicaragua. Field trips, inquiry-based learning, and service learning are integral to the course.
Connections Discipline: Interdisciplinary
Prerequisites: Completion of a two-course block or SCD 110 and Admittance to CELL Program

SCD 276 - Global Warming Change Course: Lesson from Iceland

3 Credits Part of a Center for Ecological Living and Learning (CELL) semester abroad program, this course surveys the complexities of global warming, examines human participation in this ecological crisis, and explores personal and collective actions that might shape effective responses to climate change. The course also introduces students to Iceland’s unique geology and provides inspiring examples of how Iceland is utilizing carbon-free geothermal resources for heating and electricity production.
Connections Discipline: Interdisciplinary
Prerequisites: Completion of a two-course block or SCD 110 and Admittance to CELL Program

SCD 320 - The History of Planning and Development

4 Credits From ancient urban societies through the innovative sustainable communities of today, urban development – how lives were/are ordered spatially – has been an ever-evolving process. With special attention to the nineteenth and twentieth centuries, this course considers how cities worked, how intellectuals imagined cities could function, and what innovations succeeded and what ideas failed, thus providing greater understanding of how places should be planned in the future.

Connections Discipline: Social Science
Prerequisites: Sophomore Status

SCD 332 - Rethinking Economic Development

4 Credits In this course students explore the interaction between conceptions of economic development and measures of progress and well-being. Students learn the evolution of development theory – from classic theories of growth, to human development, to sustainable development – and the application of these theories at local and international scales. Students analyze trends of both traditional and innovative indicators of development.
Connections Discipline: Social Science
Prerequisites: BUS 226 or ECN 263

SCD 335 - Organizing Communities

3 Credits People working to maintain, reform, and revolutionize their community of place play a critical role in organizing community and community change. This course addresses community, community organizing, and community change and demonstrates the power individuals and groups hold in shaping community through thoughtful and methodical collective action.
Connections Discipline: Social Science
Prerequisites: Junior or Senior Standing or Instructor Consent

SCD 355 - The Just City in Practice

3 Credits This Spring Term experiential travel course offers Sustainable Community Development majors an intensive examination of the "just city" concept. A week of seminar readings and discussion is followed by ten days of fieldwork in an international "just city." In the process, this course demonstrates how sustainable community development is a global phenomenon, and familiarizes students with the relationship between theory and practice.
Course Fee
Connections Discipline: Experiential
Prerequisites: SCD 110, SCD 220, SCD 230, SCD 235, or Instructor Consent

SCD 422 - Capitalism, Justice, and Sustainability

3 Credits This course explores the ways that capitalism, as it is currently practiced, is unsustainable. Additionally, students explore alternative models of economic development.
Connections Discipline: Social Science
Prerequisites: BUS 226

SCD 430 - Sustainable Development Theory

4 Credits This intensive reading course offers Sustainable Community Development majors a comprehensive survey of the discipline's theoretical underpinnings. In a seminar setting, students read, discuss, analyze, and critique a diverse array of community planning, economic development, and ecology theorists from the past century, ultimately synthesizing and enhancing sustainable development theory for applied practice in the field.
Prerequisites: SCD 110 and SCD 220

Sociology and Social Justice

SOC 111 - Introduction to Sociology

4 Credits Students learn concepts and methods of sociology by studying the basic structure of social life, culture, group interaction, social institutions, stratification, power, and social problems.
Connections Discipline: Social Science

SOC 214 - Native Americans in Modern Society

3 Credits Students examine the current conditions of indigenous peoples of the Americas from a sociological perspective. The course emphasizes the modern forms of tribal organization, the impact of Federal Indian Policy, and the political and ethnic resurgence that has influenced indigenous individual and collective identity.
Connections Discipline: Social Science

SOC 225 - Social Problems

3 Credits Students critically analyze the structural sources of American and global social problems through an examination of wealth, power, and the institutional arrangements that perpetuate poverty, injustice, war, environmental degradation, and racial and social inequality.
Connections Discipline: Social Science

SOC 226 - Social Movements

3 Credits Students study the nature and forms of social change through an examination of social movements, collective behavior, and revolution.
Connections Discipline: Social Science

SOC 234 - Sociology of Gender

3 Credits Students study the development, operation, and consequences of gender socialization, both male and female. The course focuses on comparisons of gender roles in various cultures and societies, and on the effects of gender on inequality, sexual orientation, values, and belief.
Connections Discipline: Social Science

SOC 236 - Sociology of Sexuality

4 Credits This course provides an overview of sexualities from a sociological perspective within the context of the United States, with some cross cultural comparisons. Students study how sexuality is socially constructed and focus on how people become sexual beings, understanding sexual identities, sexual subcultures, sexual "deviance", and the sex-for-profit industry.
Connections Discipline: Social Science

SOC 240 - Cultural Ecology

3 Credits This course focuses on how humans have gathered and distributed food throughout history. Students examine the consequences of various methods of food production on the other aspects of culture such as religion, politics, and inequality. They also examine human-nature interactions and conceptions of nature found in various cultures that are a result of human food production methods.
Connections Discipline: Social Science

SOC 260 - Introduction to Sociology - Superior Connections

4 Credits Students learn concepts and methods of sociology by studying the basic structure of social life, culture, group interaction, social institutions, stratification, power, and social problems. As part of a block in the Superior Connections program, this course utilizes sociological concepts to understand life in and around the Lake Superior Watershed as students consider the relationship between sustainability and social justice
Connections Discipline: Social Science
Prerequisites: Enrollment in Superior Connections
Corequisites: XSS 215

SOC 301 - Mass Media and Popular Culture

3 Credits Students examine the relationship between media productions and society through the comparative study of Western and non-Western film, music, television, print media and radio. Sociological analysis of how mass media and popular culture affect social structure, organization, behavior, and identity is a focus.
Connections Discipline: Social Science

SOC 302 - Sociology of Culture

3 Credits Students examine the links between culture, modernity, and post modernity through the analysis of cultural productions, power, moral discourse, and the audience in a variety of Western and non-Western societies.
Prerequisites: SOC 111

SOC 315 - Sociology of Community

3 Credits Students study urban, rural, and intentional communities, with an emphasis on the nature of community, place, neighborhood, development, and change.
Connections Discipline: Social Science

SOC 332 - Crime, Deviance, and Social Justice

3 Credits Students examine the social construction of the law, the courts, crime, imprisonment, and justice. The course emphasizes the differential application of the law, the myths of crime and deviant behavior, and the uses of the legal system for political and social ends.
Connections Discipline: Social Science

SOC 336 - The Nature of Social Inequality

4 Credits Students analyze the major forms of socially structured inequality in American society, emphasizing how wealth, power, and life chances affect different racial, ethnic, indigenous, gender, and national groups.
Connections Discipline: Social Science

SOC 338 - Political Sociology

4 Credits Students study political phenomena including power, parties, and the early and modern states, including their relation to region, social class, ethnicity, and the global community. SOC 336 is recommended preparation for this course.
Connections Discipline: Social Science

SOC 341 - Sociology of the Environment

3 Credits Students study the challenges, societal impact, and organization of environmental groups and movements, with an emphasis on contemporary issues, tactics, and ideologies.
Connections Discipline: Social Science

SOC 342 - Australian and New Zealand Culture Preparation

0 Credits This is a prepatory course for students who enroll in SOC 343 - Australian and New Zealand Culture, a May term travel course.
Prerequisites: Instructor Consent

SOC 343 - Australian and New Zealand Culture

4 Credits Students study environmental and social issues in Australia and New Zealand, while traveling in the regions and among the cultures associated with the issues. Specific sites visited during the course include the Sydney Opera House, the Blue Mountains, the Great Barrier Reef, the Bay of Islands, Mt. Cooke, and the Daintree Rainforest—the only Cultural and Natural World Heritage site in the world.

Course Fee.
Connections Discipline: Social Science or Experiential
Prerequisites: SOC 342 and Instructor Consent

SOC 368 - Global Inequality

4 Credits Students study the forms, causes and consequences of global inequalities. Globalization produces winners and losers, and this course explores those individuals, companies, and countries that benefit from globalization as well as those who are harmed by it. Additionally, the course will analyze how demographic trends play a role in the globalization process.
Connections Discipline: Social Science
Prerequisites: SOC 111 or Instructor Consent

SOC 370 - Social Science Research Methods

4 Credits Students study methods used in social science research, including surveys, interviewing, ethnography, participatory action, content analysis, and secondary analysis. Students also apply basic statistical concepts to real social issues through the use of computer-assisted statistical packages such as R and SPSS. Finally, students apply their new knowledge and skills by completing research projects and presenting them to the class.
Prerequisites: MTH 107

SOC 374 - Human Rights and Social Justice

3 Credits Through written texts, videos, and personal life stories, students explore how groups have been denied basic human rights. Additionally, students learn about the numerous methods groups have used to gain human rights. Finally, students research, using the case study method, one group and its struggle to achieve human rights.
Connections Discipline: Social Science
Prerequisites: SOC 111 or SOC 260

SOC 381 - Undoing Racism

3 Credits This course teaches students how to understand race and racism from a sociological perspective. American culture teaches us that we should not pay attention to race because it only makes inequality worse. This leaves us ill-prepared to interact with difference or understand inequality. In this course, students become familiar with the data that examine how race and ethnicity are tied to inequality and privilege, and they develop skills for dealing with racial / ethnic differences in a variety of contexts.
Connections Discipline: Social Science
Prerequisites: SCD 110 or SOC 111

SOC 448 - Sociological Theory

3 Credits Students survey sociological theory from pre-modern times to the present. The course emphasizes the contributions of classical theorists to contemporary sociological practice.

SOC 472 - Advanced Justice Studies

4 Credits Students read, discuss, and debate numerous theoretical perspectives concerning justice and apply them to specific topical areas related to the instructor's expertise.
Prerequisites: SOC 111 or SOC 260

SOC 481 - Qualitative Research Methods

4 Credits Students learn research methodologies and analysis in a range of qualitative methods including ethnography, in-depth interviewing, focus group moderating, and content analysis. By reading theory, reviewing existing research, and developing hands-on skills through working on data collection and analysis, students gain a thorough understanding of the theory and practice of qualitative methodologies.
Prerequisites: SOC 111 and Junior Status or higher

SOC 488 - Capstone in Sociology and Social Justice

4 Credits This course provides students with the necessary skills to complete a social science research project of their choosing, with the guidance of the professor and other students in class. This is a seminar in which students read and discuss social science research.
Prerequisites: SOC 370

Writing

WRI 224 - News Writing & Reporting

3 Credits This course introduces students to the essentials of journalism necessary for any storytelling format: news and information gathering; constructing stories; editing and presentation; avoiding libel and other legal pitfalls. It drills students in basic skills and deadline reporting and writing.

Prerequisites: ENG 110 or a 2-course Humanities, Social Science, or Humanities & Natural Science block

WRI 260 - Introduction to Creative Writing

3 Credits This course is a workshop in writing poetry and short fiction. Students explore their creative potential in the genres through exercises, writing/revision of poems and stories, peer review, and reading the work of prominent poets and writers.

WRI 273 - Writing the Environmental Essay

3 Credits Workshop in writing the creative nature essay.
Prerequisites: ENG 110, a Connections Block, or Writing Assessment Score of 3 or above

WRI 361 - Creative Writing: Fiction

3 Credits This course focuses on the study and practice of short story writing. Students are given in- and out-of-class exercises to facilitate story ideas; the course also involves small and large group workshops, with discussions of student work. At the end of term, students present their stories in a public venue.
Prerequisites: WRI 260

WRI 362 - Creative Writing: Poetry

3 Credits In this workshop course, students practice the art and craft of writing poetry, as well as reading the work of established contemporary poets.
Prerequisites: WRI 260

WRI 363 - Writing Literary NonFiction

3 Credits This course is a workshop in writing literary nonfiction. Reading, writing assignments, and discussion explore the wide mix of memoir, travel writing, literary journalism, and personal essay that comprises the genre of literary nonfiction.
Prerequisites: WRI 260

WRI 461 - Seminar in Fiction Writing

4 Credits This seminar is an advanced workshop in fiction writing. Students write 3-4 medium length short stories (30-40 pages total), which are read and critiqued by the class as a whole. The course is a capstone option for Writing majors.
Prerequisites: WRI 260

WRI 462 - Seminar in Poetry Writing

4 Credits This course is an advanced workshop in writing poetry and is a capstone option for writing majors.
Prerequisites: WRI 260

WRI 489 - Senior Honors Thesis

3 Credits Students complete a long scholarly or creative work with a thesis director. The thesis is presented to the College community in a public reading. Students may only take this course by invitation of the English Program Coordinator. This course is not a

capstone option for Writing majors.
Prerequisites: Instructor Consent

Connections Curriculum

XENG 101 - Composition Tutorial

0 Credits This tutorial provides supplemental instruction for students enrolled in Foundations in Nature blocks. Students complete writing exercises that complement assignments required in block courses, and through these exercises develop strategies for effectively engaging in the writing process as well as the knowledge required to accurately evaluate their own writing. Successful students acquire the confidence and skills required to continue improving their writing beyond the course.
Corequisites: Enrollment in Growing Connections or Superior Connections

XHH 106 - Growing Connections Fall 1A: Agricultural Humanities

0 Credits Connections Block: ENG 140-B022 Food for Thought: Reflecting upon Agrarian Life in America and HIS 120-B022 American Agricultural History Agricultural Humanities is part of a larger Growing Connections curriculum (4 courses in the fall with the option to continue in the winter/spring and beyond). This portion focuses on the historical context of agricultural production in the United States and offers a survey of literary responses to how humans grow food and imagine the countryside. The Agricultural Humanities block must be taken concurrently with the Sustainable Food and Agriculture block.

XHH 115 - Superior Connections Fall 1: Lake Superior Lives and Stories

0 Credits Connections Block: ENG 126-B004 Confluences and NAS 160-B004 Lake Superior Ojibwe (Superior Connections First Year Fall Semester) Students explore the unique sense of identity and place among the peoples and communities of the Lake Superior Region. They examine these relationships through the lens of history, memory, culture, writing, artistic expression, and human relationships to the natural environment.
Connections Discipline: Experiential

XHH 130 - American Cultural Spirituality

0 Credits Connections Block: HIS 102-B023 US History after 1865 and REL 241-B023 Religion in America Students will explore religious trends in America from 1865 to present day. Topics include how religion has served to affirm (and/or suppress) regional, racial, sexual, and ethnic identities in the 19th and 20th centuries, religion's role in continuous US ideologies of "manifest destiny," the social gospel movement's reaction to the Guilded Age, spiritual responses to the Great Depression, and the religious motivation behind temperance movements. A special focus will be on Civil Rights-era spiritual themes, as well as the rise of the late-20th century Religious Right.
Connections Discipline: Humanities

XHH 135 - North American Contact Zone

0 Credits Connections Block: HIS 101-B026 United States History to 1865 and NAS 211-B026 Native American History and Experience North American Contact Zones focuses on Native American and white cultural, legal, and militaristic encounters from contact through 1865. Both courses speak to themes of colonization, imperialism, treaties, and Indian removal, lifeways, resilience, and sovereignty.
Connections Discipline: Humanities

XHH 164 - Identity through American Design

0 Credits Connections Block: ART 106-B012 Design Studio and HIS 266-B012 American Material Culture This is Winter-May block. Students must successfully complete ART 106-B012 Design Studio in winter and HIS 266-B012 American Material Culture in May to receive credit for XHH-164-B012. In this block, students are exposed to the history and practice of visual and material expression throughout American history and today.
Connections Discipline: Humanities

XHH 205 - Arts and Cultural Encounters

0 Credits Connections Block: HUM 249-B010 Voices of the American West and NAS 211-B010 Native American History to 1838 Students explore a variety of cultural encounters and human interactions in Native American history and the American arts spanning the18th, 19th, and 20th centuries. They engage with themes, such as creative expression, human resiliency, colonialism, expansion, and the myths and realities of American history.
Connections Discipline: Humanities

XHH 210 - Asian Religions in Global Context

0 Credits Connections Block: HIS 111-B006 History of World Civilizations to 1500 and REL 230-B006 Asian Religions and Philosophies In this block, students will study the content of various Asian religions and philosophies in the context of global history. In particular, students: connect the roots of each religion to the historical context that produced it; compare the doctrines and beliefs of various religious and philosophical systems; study the patterns of religious change across regions and times periods; trace the impacts of various religions on Asian political, economic, and social history; and juxtapose Asian religions and philosophies to Western religions and philosophies such as Jusiasm, Christianity, Islam and Western humanism.
Connections Discipline: Humanities

XHH 212 - World Religions

Connections Block: REL 229 Idea of God and REL 230 Asian Religions and Philosophies This block of religion courses provides a basic grounding in selected, major

world religions. By engaging these traditions at the same time, the commonalities and contrasts are clarified and greater, contextual understanding results. Both courses will focus on the basic tenets, traditional and contemporary practices, as well as contemporary challenges within each tradition

XHH 215 - Monotheism in Global Context

0 Credits Connections Block: HIS 111-B011 History of World Civilizations to 1500 and REL 229-B011 The Idea of God In this block, students study the content of Judaism, Christianity and Islam, and then explore the ways that these religious traditions were shaped by their historical contexts, and how, in turn, they had enormous impacts on Middle Eastern and Western political, economic, and social history. In addition, students trace the outlines of the interactions of these religions with Western humanism.
Connections Discipline: Humanities

XHH 220 - A-B positive (Art/Buddhism)

0 Credits Connections Block: ART 111-B003 Drawing I and REL 231-B003 Buddhism This block connects the study of the Buddhist religion to the art of drawing. Buddhism has contributed to art history in myriad ways that utilize the art of the pen or brush. Students will have hands-on experience in studio with traditional drawing techniques as well as those influenced by Buddhism.
Connections Discipline: Humanities

XHH 225 - Ethics and Human Rights

0 Credits Connections Block: PHL 225-B013 Ethics and REL 270-B013 Religion and Human Rights This block brings religion and philosophy into dialogue examining philosophical ethical theories and their application as well as religious sytems of thought on human rights.
Connections Discipline: Humanities

XHH 230 - Women of the World

0 Credits Connections Block: NAS 250 Native American Women's History and ENG 233 Women of the Third World
Students explore the diverse experiences and perspectives of women from around the world including Native American women and women in Africa, Latin America, the Middle East, and Asia.
Connections Discipline: Humanities

XHH 235 - Gender, Society, and Nature

0 Credits Connections Block: GWS 266 Ecofeminism and HIS 260 Gender in Modern Europe
This block traces the history of gender relations in Western Civilization over the past 250

years and aligns that history with current feminist theories and practices regarding the relationship of gender to environmental issues, conceptions of nature, and inequality.
Connections Discipline: Humanities

XHH 241 - The Middle East and the Muslim World

0 Credits Connections Block: ENG 228-B002 Literature of the Arab World and HIS 263-B002 History of the Middle East In this block students explore the culture and history of the Middle East, and especially Arab Literature. The courses cover the rise of Islam and its affect on the culture of the Middle East, the nature of Western involvement in the region, and the roots of current conflicts in the area. Students also get a solid grounding in the ways that Islam shapes modern gender roles, conceptions of community and society, and governmental structures. Special attention is given to the role that oil has played in the region's history and power politics.
Connections Discipline: Humanities

XHH 243 - Middle East & the Muslim World

0 Credits Connections Block: HIS 263-B020 History of the Middle East and REL 330-B020 Islam In this block students explore the intersections of Middle East history and the religion of Islam. The courses cover the rise of Islam and its effect on the culture of the Middle East, the tumultuous Twentieth Century in the Middle East, and current problems in the Middle East today. They also cover the nature of the Muslim religion today, and the ways that Islam has interacted with historical events.

Connections Discipline: Humanities

XHH 245 - Roots of the Western World

Connections Block: ENG 213 Literature of the Western Worlds and HIS 221 History of Medieval Europe

This block traces the development of literature and culture in Europe from the Ancient Greeks to the Renaissance, with an emphasis on the Medieval Period.
Connections Discipline: Humanities

XHH 261 - Gender and Environment

0 Credits Connections Block: GWS 266-B001 Ecofeminism and HIS 209-B001 Gender in the United States Landscape This block examines critical moments and theories at the intersection of the construction of gender and nature in the United States over the past two centuries. Topics include conceptions of the body, the landscape, and power in American culture; women's health, work, leisure, and consumer habits; ecofeminist politics; and gender as understood through physical space.
Connections Discipline: Humanities

XHH 269 - Contemporary Western Art and Philosophy

0 Credits Connections Block: ART 232-B014 Contemporary Art History and PHL 282-B014 Contemporary Western Philosophy We survey trends and individual contributions to the development of Art and Philosophy from the late 1800's to the present. We will explore the influences of historical, cultural, and technical developments on the development of Art and Philosophy.
Connections Discipline: Humanities

XHH 270 - Nature in History & Literature

0 Credits Connections Block: ENG 318-B024 Nature Writers and HIS 241-B024 American Environmental History Through the lens of history and literary studies, students explore the many ways that Americans have depicted and acted on their believes about nature and the natural world. Readings of common texts and study of related movements and historical events provide students with an opportunity to differentiate between historical and literary approaches to understanding uniquely American attitudes toward nature.
Connections Discipline: Humanities

XHH 272 - 20th Century Culture & Conflict

0 Credits Connections Block: HIS 270-B025 The Holocaust and HUM 235-B025 Arts, Letters, and The World War This block examines the complex interactions of culture and conflict in the early Twentieth Century, by contrasting great early Twentieth Century European art, music, poetry and fiction with the sequence of events leading up to the Holocaust. Both courses will pay special attention to the First World War and the ways that it shook European culture to its foundations, and created the groundwork for Nazism and the Holocaust to arise.
Connections Discipline: Humanities

XHH 305 - Language, Literature, and Meaning

0 Credits Connections Block: ENG 384-B007 Literary Criticism and PHL 330-B007 Philosophy of Language Students explore the nature of meaning from the perspectives of philosophy and literary criticism. Studying the schools of criticism and the philosophy of language, the class investigates the meaning/language connection, how language hooks onto the world, the sense/nonsense distinction, the role of context in meaning and understanding, connections between theory, criticism, and literature, and how theoretical approaches to the study of literature question and shape the making of meaning in literary texts.
Connections Discipline: Humanities
Prerequisites: Any ENG course

XHI 105 - Energy, Design, andAesthetics

0 Credits Connections Block: PHL 266-B100 Environmental Aesthetics and SCD 160-B100 Renewable Energy and Sustainable Design Students investigate the aesthetics of cultural and natural environments while studying principles of energy production and green building practices. Applying European, American, and Japanese models of aesthetics to human landscapes, students examine climate appropriate building designs and sustainable methods of energy production.

XHI 200 - Superior Connections 2: Reading the Waters and Confluences II

0 Credits Connections Block: ENG 229-B101 Reading the Waters and IDS 250-B101 Confluences II Building on experiences in first-semester Superior Connections blocks, students study literature of the Lake Superior Watershed as well as places and communities that they will visit during the May circumnavigation. Particular attention is given to the development of skills in critical reading, writing, speaking, and research.

XHN 105 - Nature in Life and Literature

0 Credits Connections Block: BIO 115-B202 Concepts of Biology and ENG 211-B202 Humanity and Nature in Literature This two-course block addresses environmental issues and views of nature from the distinct perspectives of science and the humanities. Students acquire an understanding of the foundation in biology (genetics, water issues, etc.) as well as exposure to those same issues through the reading of appropriate literature (novel, play, short stories, essays, and poetry).
Prerequisites: ENG 110 or Connections Block

XHN 110 - Exploring Meaning in the Universe

0 Credits Connections Block: REL 258-B201 Religion and Nature and PHY 104-B201 Introduction to Astronomy This block examines the connection human beings have to "nature," from local surroundings to the entire universe. Quite often this connection to, and understanding of, nature is viewed through the lens of various world religions. It is also the case that religion is sometimes shaped by scientific understanding. Religion and Nature takes the position that the current relationship championed by human beings and world religions has lead to irreparable harm. Introduction to Astronomy examines the relationship between science and religion and discusses the possibility that this relationship is not unidirectional.

XHN 112 - Food and Agriculture

0 Credits Connections Block: CHM 103-B205 General Chemistry: The Chemistry of Food and ENG 140-B205 Food for Thought: Reflecting upon Agrarian Life in America This block combines chemistry, literature, and writing in the study of sustainable food and agriculture. Students will investigate these topics in the classroom, the laboratory, and on weekly field trips to local farms and sustainable businesses.

XHN 115 - Growing Connections 2: Food, Religion, and Geology

0 Credits Connections Block: REL 273-B200 World Religions Foodways and GSC 107-B200 Geology and Agriculture (Growing Connections First-year Winter Block) The block is an interdisciplinary study of agriculture through the lens of religious studies and geoscience.

XHN 120 - B203 - Rock Solid Thinking

Connections Block: GSC 120 Physical Geology and PHL 270 - Philosophy of Science Acquire the knowledge and background to answer geologic questions and to appreciate the diversity of the physical landscape and the processes that shape it. Gain knowledge to appreciate the complexity of environmental problems. At the same time, learn about the history of science, its methods, its rise to prominence, and the challenges it has faced and which it faces today.
Connections Discipline: Humanities and Natural Science

XHN 125 - Natural Hazards

0 Credits Connections Block: ENG 160 Natural Disasters in Literature and Film and GSC 140 Natural Hazards
This block examines natural hazards and disasters, exploring natural events and crises as geologic processes, as subjects of literature and film, and as social and environmental problems.
Connections Discipline: Humanities and Natural Sciences

XHS 105 - The Structure of Disaster

0 Credits Connections Block: ENG 160-B300 Natural Disasters in Literature and Film and SOC 225-B300 Social Problems Disasters come in many forms, seemingly striking out of the blue and leaving people to pick up the pieces. Many recent disasters, both social and ecological, illustrate the failure of social structures and institutions, in general and in responding to catastrophe. In this block we explore the social problems that underpin disaster, as well as literary and cinematic representations of disaster and apocalypse.

XHS 107 - Gender, Society, and Disaster

0 Credits Connections Block: ENG 160-B301 Natural Disasters in Literature and Film and SOC 234-B301 Sociology of Gender This block examines the various ways in which gender and other cultural factors such as race and class are tied to disaster. We examine both the gendered implications of disasters and contemporary representations of gender, disaster, and apocalypse.

XHS 109 - Film, Literature, and Society

0 Credits Connections Block: ENG 160-B309 Natural Disasters in Literature & Film and SOC 111-B309 Introduction to Sociology This block examines the various ways in

which cultural meanings shape social categories such as race, class, and gender, particularly with regard to contexts for natural disaster. We explore some of the many sources of these meanings, with a focus on contemporary literary and cinematic texts.
Connections Discipline: Humanities and Social Sciences

XHS 115 - Developing Business Presentations

0 Credits Connections Block: ENG 180 Public Speaking and BUS 229 Small Business Management
This blocked course will develop students' public speaking skills for application in a professional business environment.
Connections Discipline: Humanities and Social Sciences

XHS 117 - Developing Business Presentations II

0 Credits Connections Block: ENG 180 Public Speaking and BUS 232 Principles and Practice of Management
This blocked course will develop students' public speaking skills for application in a professional business environment.
Connections Discipline: Humanities and Social Sciences

XHS 119 - Developing Business Presentations

Connections Block: BUS 228 Marketing Management and ENG 180 Public Speaking
This blocked course will develop students' public speaking skills for application in a professional business environment.
Connections Discipline: Social Science and Humanities

XHS 200 - Collapse

0 Credits Connections Block: ENG 234-B302 Science Fiction and Societal Collapse and SCD 215-B302 Collapse and Sustainability. Discussions of societal collapse capture the minds and hearts of scientists and artists alike. Scientists have studied past and present examples of societal collapse and sustainability. Likewise, science fiction writers have described marvelous utopian societies and created cruel and unforgiving worlds of complete chaos. In this block, the courses uncover empirical, science-based case studies and imaginary, fiction-based worlds found in scientific and humanist traditions. The block brings together fantasy and reality through discussions of collapse and sustainability, and through a creative thought experiment, challenges students to explore possible futures.

XHS 205 - Groups and Counterculture

0 Credits Connections Block: MUS 217-B305 Music in World Culture and OED 221-B305 Group Process What forces are at work within groups and how can we live and work successfully within them? Topics include group dynamics, leadership, power,

conformity, communication, conflict, morality and ethics, diversity, subcultures and countercultures. Insights come from theories in sociology, psychology, leadership and education as well as from case studies in outdoor education, business, community organizing, juries, war, and music groups from around the world.

XNI 105 - Growing Connections: Agriculture

0 Credits Connections Block: BIO 115-B500 Concepts of Biology: Food and Agriculture and IDS 141-B500 Sustainable Agriculture Synthesis Growing Connections: Agriculture is part of a larger Growing Connections curriculum (four courses in the fall with the option to continue in the winter/spring and beyond). Students investigate issues such as pesticide use, soil fertility, crop rotation, and nutrition in the classroom, the laboratory, and on weekly field trips to local farms and sustainable businesses.

XNN 105 - Growing Connections Fall 1B: Sustainable Food and Agriculture

0 Credits Connections Block: BIO 115-B602 Concepts of Biology and CHM 103-B602 Chemistry of Food Sustainable Food and Agriculture is part of a larger Growing Connections sequence of courses (four courses in the fall semester with the option to continue in the winter/spring and beyond) that focuses on the history, theories, and practices of sustainable agriculture. This portion focuses on the biology and chemistry of food and agriculture in sustainable systems. Students in Growing Connections work closely with faculty mentors and regional farmers in classrooms, labs, and in the field to develop a comprehensive understanding of the role that agriculture plays in the lives of individuals and their communities.

XNN 110 - Revenge of the Ecosystem

0 Credits Connections Block: BIO 115-B603 Concepts of Biology and CHM 105-B603 Chemistry in Social Context Students examine the impact of human activity on the environment and the resultant consequences for both human health and ecological sustainability. Particular attention is given to the chemistry and biology of our local watershed.

XNN 115 - Superior Connections Fall 1: Natural Setting of Lake Superior

0 Credits Connections Block: BIO 128-B604 Natural History and Conservation in Lake Superior Watershed and GSC 112-B604 Geoscience Issues of Lake Superior Part of the Superior Connections program. In this block students explore and learn about the natural setting of the Lake Superior Basin; specifically, the geology and natural history. This block is only open to students who have applied and been accepted to the Superior Connections program.
Prerequisites: Enrollment in Superior Connections

XNN 125 - The Unsettled Earthscape

0 Credits Connections Block: GSC 120-B600 Physical Geology and MET 270-B600 Oceanography This block examines processes that have given the Earth its current shape and how these processes might change the future shape of the Earth. Processes are studied from a geologic and oceanographic perspective and include: the circulation of water and air, volcanism, the rock cycle, nutrient cycling in the ocean, mixing of the ocean, waves, shorelines, tectonic activity, hurricane formation and movement, and sea floor and sediments.

XNN 130 - Your 2050 Weather Forecast

0 Credits Connections Block: CHM 245-B601 Atmospheric Chemistry and Climate and MET 125-B601 Introduction to Meteorology In this block, students investigate the foundations of meteorology and atmospheric chemistry as well as how the local, regional, and global climate will change in the near future.

XNN 135 - In Search of Aliens

0 Credits Connections Block: PHY 104 Introduction to Astronomy and BIO 115 Concepts of Biology
Participants in this block will join the current search for extraterrestrial life. To do this, students will be exposed to the basic building blocks of life as well as how we can conduct a search from the safety of our own planet.
Wellness Dimension: Natural Sciences

XNN 140 - Mathematics of Life

0 Credits Connections Block: BIO 115-B609 Concepts of Biology and MTH 109-B609 Precalculus Mathematics Mathematics and biology are two large and complex fields of study; however, using one to explain the other makes each seem more connected to real word around us. Participants in this block integrate biological concepts with mathematics to aid in the exploration and contextualization of mathematical principles while quantifying important biological processes and phenomenon. Have you ever wondered how many cells there are in the world, how fast the human population will literally run out of room on the planet Earth, or why certain numbers appear repeatedly in nature? This block combines introductory biology with pre-calculus mathematics to answer these and many other questions. This course is ideal for freshman looking for a science block and helps prepare science students or anyone for a life appreciating the interconnectedness of biology and numbers.

XNN 205 - Geologic-Ecologic Connections

0 Credits Connections Block: BIO 234-B608 Ecology and GSC 222-B608 Sediments and Soils Participants in this block will develop a large-scale integrated appreciation for how geology, soil science, and ecosystem processes shape the world around us. Geology determines spatial landscape patterns, topography and soil parent material; this drives the development of soils and the processes that shape ecosystems. Soils and ecosystems

further interact as soils promote and/or constrain ecosystem processes, while ecosystem processes influence soil development, morphology, and function. This block combines exposure to these interactions with a true understanding of how the natural world works; it is ideal for sophomores looking for advanced science blocks.
Prerequisites: BIO 115 or BIO 128 and GSC 107, GSC 112, or GSC 120

XNN 305 - Connecting Hydrology with GIS

0 Credits Connections Block: GSC 305 Hydrology and GIS 301 Intermediate GIS Applications
Students learn about the occurrence and movement of water in the atmosphere, over land, and in the ground. This block focuses on the processes of the hydrologic cycle and visualization and analysis using GIS. Students will experience common approaches to studying hydrology from the GIS community.
Connections Discipline: Natural Sciences

XNS 105 - Response to Climate Change

0 Credits Connections Block: BIO 115-B700 Concepts of Biology and IDS 130-B700 Climate and Complexities of Societal Change Understanding global climate change requires knowledge not only of the scientific concepts involved but also of the complicating social factors. Citizens and leaders must understand the science behind the issue before they can make informed decisions; scientists must understand the social forces affecting their research. Working across the disciplines of biology and environmental studies, we will explore the responses of biological systems to current and past climate change, the societal and psychological impacts of the climate issue, and creative responses to concerns about the future of the environment and humanity.

XNS 110 - Nature in Biology and Education

0 Credits Connections Block: BIO 115-B702 Concepts of Biology and OED 105-B702 Introduction to Outdoor Education This block will introduce students to the fields of Biology and Outdoor Education using the theme of nature as a common thread. Students will be challenged to think both as a scientist and as an educator when looking at life, nature, and the relationship between humans and nature.

XNS 115 - Animals and Minerals in Agriculture

0 Credits Connections Block: GSC 107-B703 Geology and Agriculture and OED 222-B703 Exploring the Human/Animal Connection This block is about the connections between humans, animals, and the natural resources used in agriculture. It examines the human/animal connection in agriculture and how soil and water connects everything. It is also about the impacts of agriculture on humans, animals, and the environment.
Connections Discipline: Natural Sciences and Humanities

XNS 200 - Earth Resources and Economics

0 Credits Connections Block: GSC 233-B701 Earth Resources and BUS 226-B701 Essentials of Economics This block studies the economics and geology that drive extraction and use of mineral, energy, and water resources. Environmental impacts of resource use and economically realistic alternatives are covered in detail.
Prerequisites: Any 100-level GSC course

XSS 105 - Sociology and Sustainability

0 Credits Connections Block: SCD 110-B907 Introduction to Sustainable Community Development and SOC 111-B907 Introduction to Sociology This block introduces students to the basic principles of sociology and integrates these theories and concepts into a framework for understanding the concept of sustainable development. Students gain a strong understanding of the processes that shape human society and how social structure influences our perceptions of sustainability and our ability to develop sustainably. Throughout the course, particular emphasis is placed on understanding how social processes interact with ecological and economic processes to shape the world we live in.

XSS 205 - Economic Geography

0 Credits Connections Blook BUS 226-B905 Essentials of Economics and GSC 262-B905 World Regional Geography. Students develop their understanding of basic economics and this understanding informs their views of contemporary geographic issues, such as the distribution of goods and services, the production and allocation of natural resources, and how it affects different cultures and nations across the globe.

XSS 210 - Growing Connections Fall 2: Growing Farms and Community

0 Credits Connections Block: BUS 229-B903 Small Business Management and SCD 110-B903 Introduction to Sustainable Community Development Growing Farms and Community is the final block in the Growing Connections program. Students study small business management and sustainable community development to develop an understanding of the role that agriculture can play in sustainable communities as well as the practical skills required for developing business plans and managing the business aspects of a small farm or related enterprises.
Prerequisites: GSC 107 and REL 273

XSS 215 - Superior Connections Fall 2: Communities of Lake Superior

0 Credits Connections Block: SCD 225-B904 Sustainable Development in the Lake Superior Watershed and SOC 260-B904 Sociology in the Watershed Communities of Lake Superior is the final block of the Superior Connections program. Building on previous experiences in Superior Connections, students study communities and patterns of social life as a means to better understanding how communities are formed and how individuals function within them. Students also explore questions related to community health and sustainability.

XSS 220 - Political Processes

0 Credits Connections Block: PSY 250-B902 Political Psychology and SCD 230-B902 The Political Process Combining research and theory from psychology, political science, and sociology, students explore local, regional, and national political processes. Issues addressed include political socialization, public opinion formation, interest group and social movement activism, electoral processes, partisan politics, bureaucracy, and the policy process.

XSS 225 - Making Sense of Misfortune

0 Credits Connections Block: OED 272-B901 Accident Theory and Analysis and PSY 250-B901 Narrative Psychology. Why do bad things happen, and how do we make sense of them once they do? Theories in cognitive psychology, sociology, organizational science, and outdoor education inform the exploration of sensation-seeking, risk, accidents, and paradoxes in risk management. Theories in narrative psychology illuminate the role of narrative structure in human cognition and the process of sense-making, healing, storytelling, and narrative techniques in therapeutic practices.

XSS 235 - Groups and Community

0 Credits Connections Block: OED 2201-B908 Group Process and Leadership and SCD 110-B908 Introduction to Sustainable Community Development An understanding of group dynamics, leadership theories and facilitation techniques can help us be effective members and leaders of diverse groups and communities. In addition to human dynamics, a sustainable community must also consider natural and economic elements. The course in Group Process & Leadership lays the interpersonal foundation and the course in SCD further builds from this into an understanding of sustainable communities at both a micro and macro level.

XSS 240 - Social Structures and Change

0 Credits Connections Block: SCD 235-B909 Forces of Change and SOC 225-B909 Social Problems This block examines the relationship between the social problems of today and the successes and failures of past political and social movements. Students gain a strong understanding of the structural processes that shape contemporary social problems and examine the role previous generations have played in shaping institutions, hindered societal development, and/or fostered social, cultural, economic, and political change. Throughout the block, students acquire the intellectual tools necessary to identify social problems and how to work to alleviate those problems going forward.

XSS 255 - Sustainable Communities

0 Credits Connections Block: PSY 250-B900 Models of Sustainable Community Change and SOC 250-B900 Leadership in Community Change Sustainable communities require hard work and cooperation by committed community members. Sustainable communities

also need the right social, economic, and political conditions to thrive. This block focuses on attempts by individuals, groups, and organizations from around the world who are trying to become more sustainable. By studying case study examples across the globe, students will have the opportunity to examine and understand how people attempt to achieve sustainable communities.

Admission Information

Applications for admission to Northland College are evaluated individually to assess each student's level of preparedness for both academic success and ability to become a contributing member of the Northland College learning community.

Admission Criteria for New Entering Students

Applications for admission are evaluated on the basis of high school curriculum, cumulative high-school grade-point average, ACT or SAT test scores, and, when available, high-school class rank. Before acceptance decisions can be made by the Office of Admissions, applicants for admission must submit:

1. a Northland College Application for Admission (Applying on-line is strongly recommended, but a paper application may also be requested from the Office of Admission.);
2. an official high school transcript (official transcripts must be sent directly from the high school of origin);
3. an official ACT or SAT test score report. (Results from either test are accepted and no preference is given to either test score. Test scores that are reported on official high school transcripts are considered official.)

Applicants for admission should have a minimum cumulative high-school grade-point average of 2.0 to be considered for admission. Students with college aptitude test scores and academic records below the median for high school seniors may be considered for admission if other factors indicate their potential for academic success in college. Letters of recommendation may be required for these students.

Admission Criteria for Transfer Students

Applications for admission from students with previous college experience are welcomed. Transfer students may begin enrollment at Northland in either the fall (late August) or winter (early January) terms.

Applications for transfer admission are evaluated on the basis of college curriculum, college credit accumulation and cumulative college grade-point average. Before acceptance decisions can be made by the Office of Admissions, applicants for admission must submit:

1. a Northland College Application for Transfer Admission (Applying on-line is strongly recommended, but a paper application may also be requested from the Office of Admission.);
2. an official college transcript from all institutions previously attended (official transcripts must be sent directly from the college of origin);

Applicants for transfer admission should have a minimum of 12 earned college credits and a cumulative college grade-point average of 2.0 to be considered for admission. Students with college academic records below these standards may, on occasion, be considered for admission if other factors indicate their potential for academic success in college. Letters of recommendation as well as high school transcript and ACT or SAT test scores may be required for these students.

Enrollment Deposit

A non-refundable $200 enrollment deposit must be received by the College once a student is accepted. The tuition deposit portion of $100 will be applied to the student's account after the add/drop date. The room deposit portion of $100 will be returned to the student after graduation if proper room checkout procedures are followed and there are no room damages.

Transfer of Credits

- Military
- Test-Out Options

A student entering Northland College, after having attended a postsecondary institution for any length of time, must provide Northland College with official transcripts for all prior, postsecondary coursework. Transcripts must be sent directly from the postsecondary institution of origin electronically or through the mail. Hand delivered or emailed from the student are not considered official transcripts. Failure to provide official transcripts from all institutions attended will result in an administrative hold being placed on a student's ability to register for courses at Northland.

The Registrar's Office will prepare a course-by-course evaluation of the submitted transcripts to determine credit transfer. College-level courses from institutions accredited by a regional accrediting agency at the time the course work was completed as well as some work evlauated by the American Council on Education (ACE). For more information, on the acceptance of ACE credit, see Military and Test-Out Options.

Courses completed at a postsecondary institution outside of the United States must be evaluated by an international evaluation agency prior to submission to Northland College. The official international course-by-course evaluation is paid by the student and must be made in advance of the evaluation. Contact the Registrar's Office for information on approved evaluating agencies.

All courses are evaluated for credit transfer on a course-by-course basis, and a grade of C- or better must have been earned in a course for it to be accepted for transfer credit. Courses that are technical in nature are generally not accepted for transfer. Courses that are considered developmental, remedial, or do not count towards graduation at the institution where they were taken are generally not accepted. Internships taken at other colleges may transfer in as elective credit within a department but do not transfer in as internship credit at Northland.

Completed courses that do not have an exact equivalent at Northland may be transferred in as general elective credits or may not be accepted. Some credits more than ten years old may require approval from the appropriate Department Chair.

A maximum of 65 credits will be accepted from all junior or two-year colleges or any combination of junior or two-year colleges. There is no limit on the number of credits that will be accepted from an accredited four-year college or university; however, to earn a Northland College degree, a minimum of 30 credits must be earned at Northland College, including at least 20 credits in a student's major field of study and six credits in a student's minor field of study.

Courses that were repeated are counted only once. If a student is awarded transfer credit for a course and then repeats the course at Northland, the transferred course will remain on the student's record; however, will no longer count toward credits earned or graduation requirements.

In addition to a course-by-course evaluation, previously completed courses will be evaluated for possible equivalency within our Connections curriculum. These equivalencies will be listed on the transfer evaluation.

Students who have received an Associate of Arts or Sciences degree from an institution that required at least 32 general education credits and who completed their general education courses with grades of C- or better will have fulfilled a large portion of the required Connections curricula upon entry to Northland. The experiential course requirement is also required of all transfer students, but it is possible that this requirement will be fulfilled by prior college coursework.

Transfer students planning to pursue teacher licensure will be required to meet certain state-mandated general education course requirements before they are eligible for student teaching. A personal interview with the Director of Teacher Education is strongly recommended for all transfer students planning to pursue teacher licensure.

Military

Transfer students with military training may receive college credit for this training as well as credit for studies completed at service schools, international institutions, and the United States Armed Forces Institute. Northland College grants credit for military

training based on the recommendations of the American Council on Education. For more information, contact the Registrar's Office.

Test-Out Options

Students may accelerate the earning of college credit through test-out programs. These programs offer the option of earning college credit in areas where the student demonstrates a sufficient degree of knowledge and understanding.

The test-out programs approved by Northland College are the following:

- Advanced Placement (AP) examination taken at the high school level (minimum score of 3 required to receive credit);
- International Baccalaureate (IB) program;
- College Level Examination Program (CLEP), available through the University of Wisconsin-Superior or designated testing centers throughout the United States (minimum score of 50 required to receive credit).

To earn credits for AP, IB, or CLEP examinations, an official score report must be sent directly to Northland College from the appropriate agency.

Northland College follows the recommendations of the American Council on Education in regards to awarding credit based on the scores earned on AP and CLEP exams.

A maximum of 30 credits from the test-out option may be applied toward a Northland College degree, and credits are not awarded for passing competency exams provided by other colleges.

For more information on test-out programs, contact the Registrar's Office.

Degree Requirements

In order to receive a baccalaureate degree from Northland College, a student must complete a major field of study, fulfill the requirements for the Connections Curriculum, earn at least 124 credits, and be in good academic standing. First-year students must also complete a First-Year Experience (FYE) course. The distribution of credits is typically:

- 31 to 36 credits in the Connections curricula;
- 40 to 60 credits in a declared major field of study; and
- 32 to 53 elective credits or credits in an optional declared major or minor field of study.

To complete a degree, students must also:

- earn a grade point average of 2.00 on a scale of 4.00 for all coursework (3.00 for students pursuing teacher licensure or a teacher certification minor);

- earn a grade point average of 2.00 in the major, including concentrations or emphases, and in minors (students pursuing a directed studies major must earn a 3.00 grade point average in the major);
- earn at least 20 credits in the major at Northland College;
- earn at least 6 credits in the minor at Northland College (students are limited to two minors);
- earn 30 of the total required credits at Northland College;
- earn 20 of the final 30 credits at Northland College;
- complete a Senior Capstone at Northland College.

The following credit limits apply:

- no more than 65 credits earned from a two-year community or junior college may be applied toward requirements for the baccalaureate degree (see Transfer of Credits under Academic Policies and Procedures);
- no more than 12 internship, field experience, or teaching assistantship credits may be applied towards requirements for the baccalaureate degree, with the exception of the Outdoor Education major;
- no more than 30 credits may be applied through testing options such as Advanced Placement, CLEP, or International Baccalaureate.

Though the Registrar's Office tracks every student's progress toward meeting degree requirements, each student is ultimately responsible for determining and completing the academic credits s/he needs to satisfy the degree requirements.

Second Baccalaureate Degree

A second baccalaureate degree may be earned by Northland College graduates. The following provisions apply:

- a 30-credit minimum is earned at Northland beyond all of the credits and degree requirements for the first baccalaureate degree, and any repeated courses do not count toward the 30 credits (For students who earned their first degree at Northland, this means that a minimum of 154 credits must be earned to qualify for a second degree.);
- a student may not earn two of the same degrees (e.g. two B.A.'s or two B.S.'s) from Northland College, and double majors within the same degree category lead to one degree with two majors listed, regardless of how many credits are earned;
- students should complete all requirements for the second degree within four semesters of attendance at Northland, and exceptions to this policy must be cleared with the Registrar's Office prior to the first semester of enrollment.

Pre-Professional Curricula

Pre-Professional Curricula

Most professional schools advise prospective students to develop a solid foundation in the liberal arts as the best preparation for admission. Consistent with this advice, Northland College does not offer designated pre-professional majors; instead, students interested in pursuing a professional degree after graduation from Northland are encouraged to complete a regular major and to choose elective courses that further prepare them for the professional field of their choice.

For assistance in developing an undergraduate course of study that will facilitate admittance into specific professional schools, students are encouraged to research the requirements of specific professional schools in their areas of interest and to meet with Northland College faculty members who have been designated as pre-professional advisors.

The recommendations below are intended to provide general guidance for students interested in pursuing post-baccalaureate professional training.

Pre-Law

The American Bar Association, the American Association of Law Schools, and pre-law advising organizations all agree that a solid liberal arts education is the best preparation for law school. Because of this, law schools accept students with a wide variety of majors and backgrounds.

Northland College encourages students interested in pursuing a law degree to meet with the pre-law faculty advisor, Paul Schue. Students are also encouraged to select a major that has relevance to the type of law they expect to practice in the future and to pursue a course of study that hones the following skills and values, all of which are crucial to the successful practice of law:

- analytical and problem-solving skills;
- critical reading skills;
- writing skills;
- oral communication and listening skills;
- general research skills;
- task organization and management skills;
- values of serving faithfully the interests of others while promoting justice.

Finally, because law school curricula are demanding and because law schools admission officers look for demonstrated achievement by applicants, students interested in attending law school should select challenging courses and develop the self-discipline required to do well in those courses.

Pre-Health Care

Northland College has a solid track record of preparing students for admission to medical professions graduate schools. Our strength is in maintaining a high quality of instruction, but also encouraging our students to think critically and broadly as they pursue their particular interests. The American Association of Medical Colleges recommends a solid liberal education preparation for medical professions. Students who are passionate about human health care may choose to major in Biology or Chemistry, while taking courses that meet professional school admissions requirements. One particular major does not have an advantage over another for admission. Pre-professional students should be prepared for career alternatives and the suggested curricula for pre-medical, pre-dental, pre-physical therapy, and pre-physician assistant will prepare students for general graduate school admission if students decide to postpone pre-professional school or pursue another career path.

Successful admission to health care professional schools in medicine (MD and DO), dental, physical therapy, physician assistant, and nursing, requires careful and long-term planning. Students should plan time for extracurricular activities such as internships, research, job shadowing, paid positions, and volunteering that provide experience working with people or in some health care capacity. Students should also keep a record of hours spent with each activity because that information may be requested on the application.

Because entrance requirements change from year to year and differ among schools, students are encouraged to become familiar with the requirements of the professional schools to which they plan to apply, and to work closely with their academic advisor and the pre-medicine advisor, Wendy Gorman, to plan for the completion of courses required for their major(s) as well as by the professional schools. The following coursework should meet or exceed recommended prerequisites for most health care professional programs (note that AP or CLEP credit may not be accepted at some professional schools without taking additional college courses).

Pre-Medicine (MD and DO)

- two semesters of inorganic chemistry with lab;
- two semesters of organic chemistry with lab*;
- one semester of biochemistry;
- two semesters of physics with lab;
- one semester of calculus**;
- one semester of statistics;
- two semesters of biology (one of which is advanced);
- one semester of psychology;
- one semester of sociology;
- writing as a stand-alone course or another course with an extensive writing requirement.

Pre-Dental

- two semesters of inorganic chemistry with lab;
- two semesters of organic chemistry with lab*;
- one semester of biochemistry;
- two semesters of physics with lab;
- one semester of calculus*;
- two semesters of biology (zoology and anatomy preferred);
- one semester of psychology;
- two semesters of English writing and composition:
- elective courses in biology (anatomy, cell biology, genetics, microbiology suggested), math, speech, humanities (including art) and social sciences;
- writing as a stand-alone course or another course with an extensive writing requirement.

Pre-Physician Assistant

- two semesters of inorganic chemistry with lab;
- two semesters of organic chemistry with lab*;
- one semester of biochemistry;
- two semesters of physics with lab;
- one semester of calculus**;
- one semester of statistics;
- one semester physiology;
- one semester of anatomy;
- one semester of microbiology;
- one semester of psychology;
- 2 semesters of English writing and composition;
- Elective courses in biology (genetics, immunology, embryology, parasitology, medical terminology suggested).

Pre-Physical Therapy

- one semester of anatomy;
- one semester of physiology;
- two semesters of chemistry;
- two semesters of physics;
- one semester of psychology
- one semester of abnormal and/or developmental psychology;
- one semester of statistics;
- one semester of calculus**;
- two elective courses in biology (microbiology, embryology, genetics);
- Some schools require additional courses not offered at Northland: biomechanics, exercise physiology, kinesiology, or medical terminology.

Pre-Nursing

- two semesters of inorganic chemistry with lab;

- two semesters of organic chemistry with lab*;
- one semester of biochemistry;
- one semester of anatomy;
- one semester of physiology;
- one semester of statistics;
- one semester of microbiology;
- one semester of sociology;
- one semester of psychology;
- one semester of developmental psychology;
- one semester of writing.

* two semesters of organic chemistry are required for biochemistry at Northland College

** one semester of calculus is required for physics at Northland College

Pre-Ministry

Consistent with other pre-professional studies, seminaries and divinity schools encourage a solid, broad liberal arts course of study as the best preparation for success at the graduate level. Students must work closely with the pre-ministry advisor, David Saetre, to determine the best course of study for the denomination and seminary of choice.

This course of study will include a major relevant to the kind of ministry a student intends to pursue. For example, a student interested in outdoor and camping ministries should take advantage of the college's strong program in outdoor education, combined with general studies in the humanities and in religion. Students interested in parish ministry should select a major in the humanities or the social sciences, with additional coursework in religion.

Pre-ministry students must also choose courses that develop critical thinking and communication skills as they prepare for graduate seminary studies. These skills include analytical thinking, clear and concise writing, critical reading, oral communication, independent research, and task management. Students will further enhance their success by developing their knowledge of intellectual history, including religion and philosophy. Finally, students should choose courses that help them grow intellectually and personally—courses that challenge the heart as well as the mind—in order develop the depth of character and the appreciation of others that ministry requires.

Pre-Veterinarian Medicine

The Association of American Veterinary Medicine Colleges recommends a solid liberal education preparation for veterinary medicine professions. Students planning to enter veterinary science professions should pursue a course of study that meets professional school entrance requirements, regardless of major. In addition, students should plan extracurricular time for volunteer and service activities and prepare for the GRE exam.

Because entrance requirements change from year to year and differ among schools, students are encouraged to work closely with the pre-vetinary advisor, Wendy Gorman, and to become familiar with the requirements of the veterinary schools to which they plan to apply. In general, though, the following coursework is recommended (note that AP credit may not be accepted at some veterinary schools without taking additional college courses):

- one semester of general biology or zoology with lab;
- one semester of genetics;
- one semester of microbiology;
- two semesters of inorganic chemistry with lab;
- two semesters of organic chemistry with lab;
- one semester of biochemistry;
- two semesters of physics with lab;
- one semester of calculus;
- two semesters of writing or courses with an extensive writing requirement;
- courses in humanities and social sciences in preparation for the social, psychological, and business aspects of veterinary practice.

Connections Curriculum

General Education: Connections Curriculum

Connections Curricula

For Northland College students, the foundation of their academic studies is established through one of the College's Connections curricula—*Superior Connections*, *Growing Connections*, or *Natural Connections*. Students elect to complete one of these curricula when they enter the College, and the courses required for their chosen Connections curriculum account for approximately one-third of the courses they will complete at the College. Academic major requirements and elective courses typically account for the other two-thirds.

All of the Connections curricula—*Superior*, *Growing*, and *Natural*—are designed to assure that students develop:

- foundational skills in communication, quantitative reasoning, and personal wellness;
- a breadth of disciplinary learning characteristic of a liberally educated individual;
- an understanding of human and cultural diversity; and
- an appreciation for the relationship between humans and the natural world that prepares graduates to live lives that are sensitive to the needs of an ecologically sustainable future.

The teaching of writing and speaking skills is integrated into the Connections blocks that are required in all of the Connections curricula. While enrolled in these blocks, students complete assignments and activities comparable to those in writing and speaking intensive courses offered at other institutions, thus completing the equivalent of at least four writing and speaking intensive courses by the time of graduation.

In addition, the Connections curricula are structured to demonstrate the value of integrated, multidisciplinary approaches to understanding the world. After completing a Connections curriculum, students understand the strengths and limitations of specific academic disciplines and are prepared to think systemically and creatively about complex questions.

Students who successfully complete a Connections curriculum at Northland College have the option of declaring an environmental studies minor. (Transfer students who satisfy Connections curricula requirements through transfer equivalencies do not have this option.)

Superior Connections

Superior Connections is a curriculum integrated thematically by a focus on the Lake Superior watershed. Students who enroll in *Superior Connections* develop expertise in the natural and human histories of the watershed, then use this expertise to study and engage a variety of complexly interconnected environmental and cultural issues. The program incorporates a number of field trips in its courses, including a one-month journey around Lake Superior. Students emerge from *Superior Connections* empowered by experiences of connectedness to make meaningful contributions to the watersheds and communities in which they will live.

Students must apply to participate in *Superior Connections*; they complete the program as a cohort of approximately twenty students.

Curriculum Requirements

Fall Semester—1st Year

XNN 115 Natural Setting of Lake Superior

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**
- GSC 112 - Geoscience Issues of Lake Superior **4 Credits**

XHH 115 Lake Superior Lives & Stories

- ENG 126 - Confluences: Reading and Writing in the Lake Superior Watershed **4 Credits**
- NAS 160 - Lake Superior Ojibwe **4 Credits**

Winter Semester—1st Year

XSS 215 Communities of Lake Superior

- SCD 225 - Sustainable Development in the Lake Superior Watershed **4 Credits**
- SOC 260 - Introduction to Sociology - Superior Connections **4 Credits**

May Term—1st Year

- IDS 180 - Lake Superior Circumnavigation **4 Credits**

Prior to Graduation

- Two courses that satisfy a disciplinary, or interdisciplinary, requirement in the Connections Program **6-8 credits**
- One additional Connections block **0 credits**
- Quantitative Reasoning Course **3-4 Credits**

Those courses which satisfy disciplinary (Humanities, Social Science, Natural Science) or interdisciplinary requirements in the Connections program are identified in individual course descriptions found in the College catalog.

Connections blocks are identified in course schedules by course codes that begin with X. For a current listing of Connections blocks, use the Course Search function on My Northland to view schedules for a specific semester or term.

Total Superior Connections: 39-42 Credits

Growing Connections

Growing Connections is a curriculum that focuses on the history, theories, and practices of sustainable agriculture. Participants in *Growing Connections* work closely with faculty mentors and regional farmers in classrooms, labs, and fields to develop an interdisciplinary understanding of food systems and of the role that agriculture plays in human culture and ecological health.

Students complete the program as a cohort of approximately twenty students.

Curriculum Requirements

Fall Semester—1st Year

XHN 112 Growing Connections Fall 1A: Food and Agriculture

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- ENG 140 - Food for Thought: Reflecting upon Agrarian Life in America **3 Credits**

XNI 105 Growing Connections Fall 1B: Agriculture

- BIO 115 - Concepts of Biology **4 Credits**
- IDS 141 - Sustainable Agriculture Synthesis **4 Credits**

Winter Semester—1st Year

XHN 115 Food, Religion, & Geology

- GSC 107 - Geology and Agriculture **4 Credits**
- REL 273 - World Religions Foodways **4 Credits**

May Term—1st Year

- IDS 243 - Sustainable Agriculture Practicum **4 Credits**

Prior to Graduation

- Two social-science disciplinary courses **6-8 credits**
- One additional Connections block **0 credits -** This block can consist of two social-science disciplinary courses
- Quantitative Reasoning Course **3-4 Credits**

Disciplinary courses with a social-science focus are identified in individual course descriptions found in the College catalog.

Connections blocks are identified in course schedules by course codes that begin with X. For a current listing of Connections blocks, use the Course Search function on My Northland to view schedules for a specific semester or term.

Total Growing Connections: 36-39 Credits

Natural Connections

Natural Connections is a curriculum that allows students to explore a variety of themes or questions. Students completing *Natural Connections* may select blocks of courses that focus on different themes or questions each semester, or they may select blocks of courses that explore the same question or theme across two or more semesters. Faculty teams dedicated to *Natural Connections* curriculum provide multi-disciplinary perspectives on the themes or questions of the different blocks, and students develop sophisticated understandings of the complexities inherent in each.

Curriculum Requirements

1) Students pursuing *Natural Connections* must complete . . .

- two courses from different disciplines that emphasize ways of knowing characteristic of the **Humanities**; (6-8 Credits)
- two courses from different disciplines that emphasize ways of knowing characteristic of the **Natural Sciences**; (6-8 Credits)
- two courses from different disciplines that emphasize ways of knowing characteristic of the **Social Sciences**; (6-8 Credits)
- two **elective courses** from any of the disciplinary perspectives, including interdisciplinary, courses; (6-8 Credits)
- one **quantitative reasoning** course; (3-4 Credits)
- one **experiential** course or a three/four credit **internship** (3-4 Credits).

The way of knowing (Humanities, Natural Sciences, etc.) associated with a specific course as well as experiential designations are identified in the college catalog.

2) In addition, Natural Connections students must complete four Connections blocks. Because these blocks include special instruction in College-level writing, students are strongly encouraged to complete at least two Connections blocks during their first-year at the College.

Connections blocks are identified in course schedules by course codes that begin with X. For a current listing of Connections blocks, use the Course Search function on my.northland.edu to view schedules for a specific semester or term.

Typically, *Natural Connections* students fulfill their disciplinary requirements (Humanities, Natural Sciences, etc., see #1 above) through their Connections blocks (#2 above), but they may also take individual courses to fulfill disciplinary requirements if desired.

Total Natural Connections: 30-40 Credits

Connections Curriculum Equivalencies

Students who enroll at Northland with college credits earned at other institutions may fulfill some or all of the Connections curricula requirements through transfer equivalencies. This includes both first-time freshmen who earned college credit while in high school and transfer students. Individual transfer evaluations will indicate which requirements, if any, have been met through these equivalencies.

AP and CLEP tests can be utilized to fulfill the Natural Connections course requirements; however, they do not fulfill the block requirements.

Repeating Connections Blocks & Courses

A Connections block consists of a title, or X, course and two academic classes, which are the content courses. Students must successfully complete both content courses to receive credit for the block. If students withdraw from one or both of the two content courses during the term, they will automatically be withdrawn from the title, or X, course, which will appear as a "W" on the transcript. If students fail one or both of the two content courses, they will receive a grade of unsatisfactory in the title, or X, course, which will appear as a "U" on the transcript.

If students wish to earn credit for a block from which they have withdrawn or in which they have received an unsatisfactory grade, they must repeat the entire block—the title course and both content courses. Students are not required to do this, and may instead choose to complete a different block to fulfill the requirements of the Connections curriculum. If students wish to repeat only a content course that they failed or withdrew from, they may do so only if that course is offered independent of a block format in a future semester. Repeating a single-content course will not result in credit for the block as a whole, and the grade on the original title course will not be changed.

Students with concerns regarding the completion of thier Connections curriculum should contact the Associate Dean of Academic Affairs for assistance.

Majors and Minors

Art

The BA program in Art at Northland College is designed to foster creativity and critical thinking through an understanding of the practice and history of the studio arts and graphic design. Students develop visual literacy and problem-solving skills to explore confidently the many avenues of technical and creative expression, and to develop an appreciation for craftsmanship and communication. Students will be prepared for entry-level career positions or graduate study.

Art Major (B.A.)

Major Requirements:

- ART 106 - Design Studio **3 Credits**
- ART 111 - Drawing I **3 Credits**
- ART 212 - Drawing II **3 Credits**
- ART 230 - Art History Ancient to Medieval **3 Credits**
- ART 231 - Art History Renaissance to Modern **3 Credits**
- ART 232 - Contemporary Art History **3 Credits**
- ART 403 - Senior Seminar **3 Credits**

Emphases:

To complete a major in Art, choose one of the following emphases:

Graphic Design Emphasis:

- ART 262 - Digital Photography I **3 Credits**

- ART 270 - Printmaking: Relief and Intaglio **3 Credits**

OR

- ART 271 - Printmaking: Screen Printing and Lithography **3 Credits**

- ART 280 - Graphic Design I **3 Credits**
- ART 282 - Interactive Design I **3 Credits**
- ART 285 - Typography **3 Credits**
- ART 380 - Graphic Design II **3 Credits**
- ART 382 - Interactive Design II **3 Credits**
- ART 385 - Graphic Design History **3 Credits**
- ART 480 - Graphic Design III **3 Credits**

- 292/492 Internship **3 Credits**

Studio Art Emphasis

- ART 402 - Senior Exhibition **1 Credits**

Four of the following:

- ART 210 - Painting I **3 Credits**
- ART 220 - Ceramics I **3 Credits**
- ART 222 - Ceramics Handbuilding **3 Credits**
- ART 262 - Digital Photography I **3 Credits**
- ART 270 - Printmaking: Relief and Intaglio **3 Credits**
- ART 271 - Printmaking: Screen Printing and Lithography **3 Credits**
- ART 280 - Graphic Design I **3 Credits**
- ART 282 - Interactive Design I **3 Credits**

- Additional Art History **3 Credits**

Four of the following:

- ART 320 - Ceramics II **3 Credits**

- ART 370 - Printmaking II **3 Credits**
- ART 420 - Ceramics III **3 Credits**
- ART 470 - Printmaking III **3 Credits**

- ART 390/490 Independent Study **1-3 Credits**

Total Art Major: 46 - 51 Credits

Art Minor

Minor Requirements:

- ART 106 - Design Studio **3 Credits**
- ART 111 - Drawing I **3 Credits**
- ART 403 - Senior Seminar **3 Credits**

Two courses from the following:

- ART 230 - Art History Ancient to Medieval **3 Credits**
- ART 231 - Art History Renaissance to Modern **3 Credits**
- ART 232 - Contemporary Art History **3 Credits**

Two courses from the following:

- ART 210 - Painting I **3 Credits**
- ART 212 - Drawing II **3 Credits**
- ART 220 - Ceramics I **3 Credits**
- ART 222 - Ceramics Handbuilding **3 Credits**
- ART 262 - Digital Photography I **3 Credits**
- ART 270 - Printmaking: Relief and Intaglio **3 Credits**
- ART 271 - Printmaking: Screen Printing and Lithography **3 Credits**

Two courses from the following:

- ART 306 - Art Collaborations with Nature **3 Credits**
- ART 320 - Ceramics II **3 Credits**
- ART 340 - Alternative Photographic Processes **3 Credits**
- ART 370 - Printmaking II **3 Credits**
- ART 470 - Printmaking III **3 Credits**

Total Art Minor: 27 Credits

Biology

The Biology Program is an exciting blend of a traditional biology curriculum with an emphasis on ecology and environmental studies.

Hands-on experience is an integral part of the program. Many courses use our 90-acre field station as well as local national forests, national and state parks, and numerous wetlands as natural classrooms. Our laboratory experiences link modern molecular techniques with environmental and conservation issues. Internships with various state and federal agencies and professionals offer students on-the-job knowledge and experience.

The program helps students prepare for employment in the fields of bioresearch, natural resources, environmental consulting, and education. It also helps prepare students for graduate and professional programs, including medical school and veterinary school.

Biology Major (B.S.)

Major Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 235 - Biology of Organisms **4 Credits**
- BIO 238 - Cell Biology **4 Credits**
- BIO 234 - Ecology **4 Credits**
- BIO 330 - Genetics **4 Credits**
- BIO 480 - Biology Senior Seminar **3 Credits**

OR

- BIO 496 - Senior Capstone **3 Credits**

- MTH 107 - Statistical Concepts and Analysis **4 Credits**

OR

- MTH 140 - Calculus I **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**

- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

One of the following:

- CHM 220 - Organic Chemistry I **4 Credits**
- CHM 225 - Ecological Quantitative Analysis **4 Credits**
- CHM 240 - Inorganic Chemistry **4 Credits**

Two of the following:

- BIO 222 - Woodland Plants of Northern Wisconsin **4 Credits**
- BIO 225 - Aquatic Invertebrates **4 Credits**
- BIO 242 - Ichthyology **4 Credits**
- BIO 244 - Field Ornithology **4 Credits**
- BIO 245 - Mammalogy **4 Credits**
- BIO 246 - Ornithology **4 Credits**

Additional Requirements

- Additional BIO or NRS credits (10 must be 300-level or higher) **16 Credits**

Total Biology Major: 59 Credits

Biology Minor

Minor Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 234 - Ecology **4 Credits**
- BIO 235 - Biology of Organisms **4 Credits**
- BIO 238 - Cell Biology **4 Credits**
- BIO 330 - Genetics **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Additional Requirements

- Additional BIO or NRS courses **6 - 8 Credits**

Total Biology Minor: 30-32 Credits

Business

The business major offers students the opportunity to focus their studies on either business management or sustainable entrepreneurship. Both emphases share a common core of courses that provide students with a foundational understanding of economics, finance, management, marketing, and social responsibility.

The business management emphasis further develops students' understanding and skills in management and strategic planning. Students who complete this emphasis often participate in the Cooperative Education Internship Program, which allows them to explore careers in small business, industry, and government while earning college credit. Typically, these students go on to careers in accounting, small business, and management.

Business Management Major (B.S.)

Major Requirements:

- BUS 120 - Quantitative Methods **3 Credits**
- BUS 168 - Technology and Communication **3 Credits**
- BUS 222 - Fundamentals of Accounting **4 Credits**
- BUS 226 - Essentials of Economics **4 Credits**
- BUS 228 - Marketing Management **3 Credits**
- BUS 232 - Principles and Practice of Management **3 Credits**
- BUS 326 - Global Business Management **3 Credits**
- BUS 330 - Managerial Finance **3 Credits**
- BUS 331 - Legal Environment of Business **3 Credits**
- BUS 361 - Organizational Behavior **3 Credits**

- BUS 338 - Human Resource Management **3 Credits**
- BUS 415 - Multicultural Aspects of Organizational Development **4 Credits**
- BUS 429 - Managing People and Conflict Resolution **3 Credits**
- BUS 475 - Strategic Planning and Policy Capstone **3 Credits**
- MTH 107 - Statistical Concepts and Analysis **4 Credits**

- BUS 359 - Entrepreneurship **3 Credits**

OR

- BUS 362 - Non-Profit Management **3 Credits**

Total Business Major: 51 Credits

Sustainable Entrepreneurship Major (B.S.)

Major Requirements

- BUS 168 - Technology and Communication **3 Credits**
- BUS 222 - Fundamentals of Accounting **4 Credits**
- BUS 226 - Essentials of Economics **4 Credits**
- BUS 228 - Marketing Management **3 Credits**
- BUS 232 - Principles and Practice of Management **3 Credits**
- BUS 237 - Environmental Marketing **3 Credits**
- BUS 330 - Managerial Finance **3 Credits**
- BUS 331 - Legal Environment of Business **3 Credits**
- BUS 342 - Business and Public Policy **3 Credits**
- BUS 358 - Innovation and Creativity **3 Credits**
- BUS 359 - Entrepreneurship **3 Credits**
- BUS 360 - Grant Writing **3 Credits**
- BUS 361 - Organizational Behavior **3 Credits**
- BUS 362 - Non-Profit Management **3 Credits**

- BUS 496 - Capstone **3 Credits**

- MTH 107 - Statistical Concepts and Analysis **4 Credits**

Additional Requirement

- Foreign Language **4 Credits**

Total Sustainable Entrepreneurship Major: 55 Credits

Chemistry

The Chemistry program provides students with a solid foundation in chemistry theory and methods that they can use in careers immediately after graduating or in medical school, veterinary school, and other graduate and professional programs. In addition the Chemistry program offers a unique opportunity to use chemistry as a tool for studying the environment. Courses and projects include such topics as acid rain, groundwater contamination, airborne pollution and toxic waste cleanup.

Northland's 21st century facility, the Larson-Juhl Center for Science and the Environment, is home to state-of-the-art laboratories. Starting with their first chemistry classes, students become familiar with sophisticated analytical technology such as atomic absorption spectrophotometry, Fourier transform nuclear magnetic resonance spectroscopy, Fourier transform infrared spectroscopy, high performance liquid chromatography and gas chromatography/mass spectroscopy. Using advanced instrumentation early in their education prepares chemistry majors to apply these instruments in increasingly more sophisticated analysis as they progress in their studies. As a result students are prepared to use these techniques to conduct senior research projects.

Northland's hands-on approach and small class size provide an intense, challenging, and exciting educational environment. The combination of dedicated faculty, modern facilities and an environmental emphasis gives Northland students a distinctive education in chemistry.

Chemistry Major (B.S.)

Major Requirements:

- CHM 210 - Chemistry of Natural Waters **4 Credits**
- CHM 220 - Organic Chemistry I **4 Credits**
- CHM 221 - Organic Chemistry II **4 Credits**
- CHM 225 - Ecological Quantitative Analysis **4 Credits**
- CHM 240 - Inorganic Chemistry **4 Credits**
- CHM 345 - Biochemistry **4 Credits**
- CHM 443 - Quantum Mechanics and Molecular Spectroscopy **4 Credits**
- CHM 447 - Chemical Thermodynamics **4 Credits**

- CHM 496 - Senior Thesis/Research **4 Credits**

- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- PHY 110 - General Physics I **4 Credits**
- PHY 111 - General Physics II **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**

- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Total Chemistry Major: 56 Credits

Chemistry Minor

Minor Requirements:

- MTH 140 - Calculus I **4 Credits**
- PHY 110 - General Physics I **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Additional Requirements

- Additional CHM courses at the 200-level or above **12 - 16 Credits**

Total Chemistry Minor: 24-28 Credits

Education

The mission of the Education Department is to provide a holistic, experiential major that creates effective teachers and lifelong learners while empowering students to make connections with others, the earth, and ideas by thinking and teaching ecologically, collaboratively, critically, and compassionately.

Successful graduates are certified by Northland College and eligible for licensure by the Wisconsin Department of Public Instruction. Each education major involves hands-on experiences both in and out of the traditional classroom that are performance-based and correlate with state requirements. Students who are unable to meet all state licensure requirements may be awarded and Educational Studies major.

As an element of best practice, the Education Department provides all undergraduate majors with a unique, experiential learning research opportunity. Education courses bring a vibrant, diverse group of students together with caring, attentive professors. This creates a learning environment in which students develop close relationships with faculty, explore personal styles, practice positive classroom interactions, and learn from one another. Teaching creatively, critically, compassionately, collaboratively, and ecologically shapes Northland College's distinctive Education Department. A dedication

to environmental awareness combined with the liberal arts tradition gives our prospective teachers the versatility, confidence, and skills needed for the challenges of their chosen career and for lifelong learning.

Students pursuing a degree in elementary or secondary education are encouraged to obtain a copy of the Teacher Education Program Student Handbook of Policies, Procedures, and Forms from the Northland College website for specific details on the requirements for both the academic majors and state licensure information.

Secondary (Early Adolescence to Adolescence) Education Major (B.S.)

Major Requirements:

- EDU 204 - Language Arts for Educators **3 Credits**
- EDU 205 - Curriculum, Planning, and Assessment **3 Credits**
- EDU 222 - The Reflective Educator **2 Credits**
- EDU 223 - Teaching in the Middle School **3 Credits**
- EDU 225 - Foundations of Education **3 Credits**
- EDU 315 - Classroom Management and Conflict Resolution **3 Credits**
- EDU 337 - Fall Practicum **1-4 Credits**
- EDU 338 - Winter Practicum **1-4 Credits**
- EDU 376 - Strategies for Teaching Diverse Learners **3 Credits**
- EDU 393 - Portfolio Development **0 Credits**
- EDU 460 - Student Teaching (EA-A) and Seminar **6 - 12 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**

One content teaching methods course appropriate to the major:

- EDU 341 - Science Teaching Methods **3 Credits**
- EDU 370 - Social Studies Teaching Methods **3 Credits**
- EDU 377 - Mathematics Teaching Methods **4 Credits**

One of the following:

- HIS 101 - United States History to 1865 **3 Credits**
- HIS 102 - United States History since 1865 **3 Credits**
- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- HIS 112 - History of World Civilizations since 1500 **3 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**

A major in one of the following disciplines:

- Biology (59 Credits)
- Chemistry (56 Credits)

- Geology (54 Credits)
- History (48-49 Credits)
- Mathematical Sciences (55-56 Credits)

Total Secondary Education and discipline Majors: 95-109 Credits

Broad Field Science Education Major (B.S)

Major Requirements:

- EDU 204 - Language Arts for Educators **3 Credits**
- EDU 205 - Curriculum, Planning, and Assessment **3 Credits**
- EDU 222 - The Reflective Educator **2 Credits**
- EDU 223 - Teaching in the Middle School **3 Credits**
- EDU 225 - Foundations of Education **3 Credits**
- EDU 315 - Classroom Management and Conflict Resolution **3 Credits**
- EDU 337 - Fall Practicum **1-4 Credits**
- EDU 338 - Winter Practicum **1-4 Credits**
- EDU 341 - Science Teaching Methods **3 Credits**
- EDU 376 - Strategies for Teaching Diverse Learners **3 Credits**
- EDU 393 - Portfolio Development **0 Credits**
- EDU 460 - Student Teaching (EA-A) and Seminar **6 - 12 Credits**
- GSC 120 - Physical Geology **4 Credits**
- GSC 262 - World Regional Geography **3 Credits**
- MET 125 - Introduction to Meteorology **4 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**
- PHY 104 - Introduction to Astronomy **4 Credits**

One of the following:

- HIS 101 - United States History to 1865 **3 Credits**
- HIS 102 - United States History since 1865 **3 Credits**
- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- HIS 112 - History of World Civilizations since 1500 **3 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**

A major in one of the following disciplines:

- Biology (59 Credits)
- Chemistry (56 Credits)
- Geology (54 Credits)

Total Broad Field Science Education Major: 101-106 Credits

Elementary/Middle Education (Middle Childhood to Early Adolescence) Major (B.S.)

Major Requirements:

- EDU 204 - Language Arts for Educators **3 Credits**
- EDU 205 - Curriculum, Planning, and Assessment **3 Credits**
- EDU 222 - The Reflective Educator **2 Credits**
- EDU 223 - Teaching in the Middle School **3 Credits**
- EDU 225 - Foundations of Education **3 Credits**
- EDU 289 - Children and Adolescent Literature **3 Credits**
- EDU 315 - Classroom Management and Conflict Resolution **3 Credits**
- EDU 337 - Fall Practicum **1-4 Credits**
- EDU 338 - Winter Practicum **1-4 Credits**
- EDU 341 - Science Teaching Methods **3 Credits**
- EDU 349 - Literacy Teaching Methods **4 Credits**
- EDU 351 - Physical Education Teaching Methods **1 Credits**
- EDU 370 - Social Studies Teaching Methods **3 Credits**
- EDU 371 - Fine Arts Teaching Methods **1 Credits**
- EDU 376 - Strategies for Teaching Diverse Learners **3 Credits**
- EDU 377 - Mathematics Teaching Methods **4 Credits**
- EDU 393 - Portfolio Development **0 Credits**

- EDU 460 - Student Teaching (EA-A) and Seminar **6 - 12 Credits**

OR

- EDU 471 - Student Teaching (MC-EA) and Seminar **6 - 12 Credits**

- EDU 472 - Student Teaching Minor (MC-EA/EA-A) **0 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**

One of the following:

- HIS 101 - United States History to 1865 **3 Credits**
- HIS 102 - United States History since 1865 **3 Credits**
- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- HIS 112 - History of World Civilizations since 1500 **3 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**

Minors:

The Elementary/Middle Education major also requires the completion of one of the following teaching minors:

English Language Arts Teaching Minor

- ENG 180 - Public Speaking **3 Credits**
- ENG 211 - Humanity and Nature in Literature **3 Credits**
- ENG 387 - The English Language **4 Credits**
- SOC 301 - Mass Media and Popular Culture **3 Credits**
- WRI 260 - Introduction to Creative Writing **3 Credits**
- WRI 361 - Creative Writing: Fiction **3 Credits**
- WRI 362 - Creative Writing: Poetry **3 Credits**

Total Elementary/Middle Education Major with English Language Arts Teaching Minor: 84 Credits

Mathematics Teaching Minor

- MTH 106 - Environmental Mathematics **4 Credits**
- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- MTH 328 - College Geometry **3 Credits**

- MTH 207 - Biometry **4 Credits**

OR

- MTH 230 - Mathematical Modeling **4 Credits**

Total Elementary/Middle Education Major with Mathematics Teaching Minor: 85 Credits

Natural Science Teaching Minor

- CHM 110 - General Chemistry **4 Credits**
- GSC 120 - Physical Geology **4 Credits**

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- MET 125 - Introduction to Meteorology **4 Credits**

OR

- MET 270 - Oceanography **4 Credits**

- PHY 104 - Introduction to Astronomy **4 Credits**

OR

- PHY 110 - General Physics I **4 Credits**

- MTH 107 - Statistical Concepts and Analysis **4 Credits**

OR

- MTH 109 - Precalculus Mathematics **4 Credits**

Total Elementary/Middle Education Major with Natural Science Teaching Minor: 86 Credits

Social Studies Teaching Minor

- PSY 110 - General Psychology **4 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**
- BUS 226 - Essentials of Economics **4 Credits**
- GSC 262 - World Regional Geography **3 Credits**

- HIS 101 - United States History to 1865 **3 Credits**

OR

- HIS 102 - United States History since 1865 **3 Credits**

- HIS 111 - History of World Civilizations to 1500 **3 Credits**

OR

- HIS 112 - History of World Civilizations since 1500 **3 Credits**

- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- SCD 230 - The Political Process **3 Credits**

Total Elementary/Middle Education Major with Mathematics Teaching Minor: 89 Credits

Broad Field Social Studies Education Major (B.S.)

Major Requirements:

- EDU 204 - Language Arts for Educators **3 Credits**
- EDU 205 - Curriculum, Planning, and Assessment **3 Credits**
- EDU 222 - The Reflective Educator **2 Credits**
- EDU 223 - Teaching in the Middle School **3 Credits**
- EDU 225 - Foundations of Education **3 Credits**
- EDU 315 - Classroom Management and Conflict Resolution **3 Credits**
- EDU 337 - Fall Practicum **1-4 Credits**
- EDU 338 - Winter Practicum **1-4 Credits**
- EDU 370 - Social Studies Teaching Methods **3 Credits**
- EDU 376 - Strategies for Teaching Diverse Learners **3 Credits**
- EDU 393 - Portfolio Development **0 Credits**
- EDU 460 - Student Teaching (EA-A) and Seminar **6 - 12 Credits**
- EDU 472 - Student Teaching Minor (MC-EA/EA-A) **0 Credits**
- BUS 226 - Essentials of Economics **4 Credits**
- GSC 262 - World Regional Geography **3 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**
- PSY 110 - General Psychology **4 Credits**
- SCD 230 - The Political Process **3 Credits**

One of the following:

- HIS 101 - United States History to 1865 **3 Credits**
- HIS 102 - United States History since 1865 **3 Credits**
- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- HIS 112 - History of World Civilizations since 1500 **3 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**

Additional Requirement:

History Minor (21 Credits)

Total Broad Field Social Studies Education Major: 95 Credits

Early Childhood Minor

Minor Requirements

This minor is currently only available to students who successfully transfer into the program with an Associate degree in Early Childhood Education from a college with which Northland College maintains a transfer articulation agreement.

Total Early Childhood Minor: 18 Credits

Engineering (Dual Degree)

The dual degree engineering program provides students with a professional engineering education and a well-rounded environmental liberal arts education. Northland College cooperates with Washington University in St. Louis, Missouri, to provide the dual degree program.

Dual degree students attend Northland for three academic years and Washington University for two academic years. Students must successfully complete the pre-engineering program and a Connections Curriculum during their three years at Northland. Upon completion of the five-year program, students earn a Bachelor of Science degree from Northland and a Bachelor of Science degree from Washington University. Students earn a B. S. in Biomedical, Chemical, Computer, Computer Science, Electrical, Mechanical, or Systems Science Engineering.

For more information about the dual degree engineering program, contact Young Kim, the Engineering Program Coordinator.

Note: In order to receive a Northland degree, students must present the Registrar's Office with a transcript of courses completed at Washington University. With the approval of the Academic Dean of the College, students may choose other engineering schools accredited by the Accreditation Board of Engineering and Technology.

Engineering (Dual Degree) (B.S.)

Major Requirements:

- BUS 226 - Essentials of Economics **4 Credits**
- CHM 240 - Inorganic Chemistry **4 Credits**
- CPS 220 - Computer Science **4 Credits**

- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- MTH 312 - Advanced Calculus **4 Credits**
- MTH 330 - Differential Equations **4 Credits**
- MTH 337 - Linear Algebra **4 Credits**
- PHY 110 - General Physics I **4 Credits**
- PHY 111 - General Physics II **4 Credits**

- Completion of a *Connections Curriculum* **30-40 Credits**

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Additional Requirement

- Two additional years of studies at Washington University

Total Engineering (Dual Degree) Major: 78-88 Credits

English

The English program reflects the overall tenor of the College in its emphasis on the development of critical thinking and communication skills, the importance of integrated cross-disciplinary studies, and concern for the relationship between humans and the natural world. Courses in the English program represent the American and British literary traditions, approaches to creative writing, and a variety of specialty studies, including third world literature, science fiction, nature writing, and women's studies. The English major also grounds students in the study of historical periods and movements.

Graduates of the English program go on to graduate programs and to careers in teaching, publishing, technical writing, public relations, or other occupations that emphasize the ability to write well, read perceptively, speak clearly, and listen carefully.

English Major (B.A.)

Major Requirements:

- ENG 262 - Survey of British Literature **3 Credits**
- ENG 264 - Survey of American Literature **3 Credits**
- ENG 384 - Literary Criticism **3 Credits**
- ENG 387 - The English Language **4 Credits**
- ENG 213 - Literature of the Western Worlds **3 Credits**
- ENG 377 - Green Romanticism **3 Credits**
- HIS 221 - History of Medieval Europe **3 Credits**
- IDS 480 - Senior Seminar **3 Credits**

One of the following:

- ENG 211 - Humanity and Nature in Literature **3 Credits**
- ENG 216 - The Contemporary Novel **3 Credits**
- ENG 228 - Literature of the Arab World **4 Credits**

One of the following:

- HIS 101 - United States History to 1865 **3 Credits**
- HIS 102 - United States History since 1865 **3 Credits**
- HIS 263 - History of the Middle East **3 Credits**

Capstone Course:

- ENG 413 - Shakespeare **4 Credits**

OR

- ENG 415 - Chaucer **4 Credits**

Additional Requirements

- Additional courses in ENG or WRI **12 - 15 Credits**

Note: A maximum of 6 credits may come from WRI

Total English Major: 47-51 Credits

English Minor

Minor Requirements:

- ENG 264 - Survey of American Literature **3 Credits**

- ENG 384 - Literary Criticism **3 Credits**
- ENG 387 - The English Language **4 Credits**

- ENG 413 - Shakespeare **4 Credits**

OR

- ENG 415 - Chaucer **4 Credits**

Additional Requirements

- Two additional ENG courses **6 Credits**
- Two additional WRI courses **6 Credits**

Total English Minor: 26 Credits

Environmental Education

The field and practice of Environmental Education refers to both formal and non-formal efforts to teach about how natural environments function, how human behaviors shape and influence those natural functions and how we can change our behaviors in order to sustain a healthy environment for the future of all living things.

Students with an Environmental Education minor are prepared to effectively teach participants of all ages and abilities, in outdoor as well as indoor settings.

Environmental Education Minor

Minor Requirements:

- OED 261 - Environmental Education Curriculum Review **4 Credits**
- PHL 226 - Environmental Ethics **3 Credits**
- HIS 241 - American Environmental History **3 Credits**
- OED 328 - Wilderness Writers and Philosophers **3 Credits**

One of the following:

- NAS 315 - American Indian Environmental Perspectives **3 Credits**
- NAS 319 - Northern Plains Cultures **3 Credits**
- NAS 333 - Native American World Views **3 Credits**

One of the following:

- SCD 220 - Sustainable Community Planning **3 Credits**

- SCD 230 - The Political Process **3 Credits**
- SOC 226 - Social Movements **3 Credits**
- SOC 240 - Cultural Ecology **3 Credits**

One of the following:

- OED 282 - Outdoor Education Practicum **4 Credits**
- OED 362 - Apostle Island School Preparation **0 - 1 Credits**
- OED 363 - Apostle Islands School **4 Credits**

- OED 492 - Internship **3 Credits**

Total Environmental Education Minor: 20-24 Credits

Environmental Geosciences

The environmental geosciences major provides students with the opportunity to study geologic and hydrologic processes as well as how people are influenced by and impact earth systems. The physical earth—its minerals, rocks, soils, water, and landscapes—form the foundation on which all ecosystems exist, so understanding geologic and hydrologic processes helps students understand environmental issues and their relationship to the earth.

The environmental geosciences major at Northland emphasizes field work, hands-on experiences, and the interdisciplinary nature of the geosciences. Students become proficient at gathering field data and using state-of-the-art equipment to produce maps that illustrate the distribution and nature of Earth's features. The curriculum provides students the broad foundation required in earth science and prepares them to be successful as professional geoscientists immediately after graduation or to continue their studies in graduate school.

Students majoring in the environmental geosciences are required to take all the courses in the list of core courses and to choose an emphasis in geology or water science. The program also supports minors in geology and GIS (Geographic Information Systems).

Geology Major (B.S.)

Major Requirements:

- CHM 240 - Inorganic Chemistry **4 Credits**
- GIS 201 - Introduction to Geographic Information Systems **4 Credits**
- GSC 120 - Physical Geology **4 Credits**
- GSC 222 - Sediments and Soils **4 Credits**

- GSC 305 - Hydrology **4 Credits**

OR

- GSC 406 - Hydrogeology and Geochemistry **4 Credits**

- GSC 320 - Landforms **4 Credits**
- GSC 321 - Minerals and Rocks **4 Credits**
- GSC 474 - Tectonics and Structural Geology **4 Credits**
- GSC 481 - Geologic Field Methods **2 Credits**
- GSC 482 - Geologic Field Camp **4 Credits**
- GSC 488 - Geoscience Capstone Research **2 Credits**
- GSC 498 - Senior Seminar in Geology **2 Credits**
- MTH 107 - Statistical Concepts and Analysis **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Additional Requirement:

One additional GSC course at the 200-level or higher **4 Credits**

Total Geology Major: 54 Credits

Water Science Major (B.S.)

Major Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 234 - Ecology **4 Credits**
- BIO 473 - Limnology **4 Credits**
- GSC 120 - Physical Geology **4 Credits**

- GSC 222 - Sediments and Soils **4 Credits**
- GSC 305 - Hydrology **4 Credits**
- GSC 406 - Hydrogeology and Geochemistry **4 Credits**
- GSC 486 - Senior Seminar in Water Science **2 Credits**

- MET 125 - Introduction to Meteorology **4 Credits**

OR

- MET 270 - Oceanography **4 Credits**

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- MTH 140 - Calculus I **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Emphases:

To complete a major in Water Science, choose one of the following emphases:

Water Chemistry Emphasis:

- CHM 210 - Chemistry of Natural Waters **4 Credits**
- CHM 212 - Water Quality Lab Techniques **4 Credits**
- CHM 220 - Organic Chemistry I **4 Credits**
- CHM 225 - Ecological Quantitative Analysis **4 Credits**
- CHM 240 - Inorganic Chemistry **4 Credits**

Water Resources Emphasis:

- BIO 225 - Aquatic Invertebrates **4 Credits**

OR

- BIO 242 - Ichthyology **4 Credits**

- GIS 201 - Introduction to Geographic Information Systems **4 Credits**
- GIS 301 - Intermediate GIS Applications **4 Credits**
- GSC 233 - Earth Resources **4 Credits**
- NRS 215 - Natural Resources Policy **3 Credits**

Total Water Science Major with Emphasis: 68 Credits

Geology Minor

Minor Requirements:

- GSC 120 - Physical Geology **4 Credits**

- Additional GSC courses, 200-lever or above **24 Credits**

Total Geology Minor: 28 Credits

Gender and Women's Studies

The Gender and Women's Studies major at Northland offers students the chance to explore the significance of gender-as well as other categories of identity-in social systems across the world. As an interdisciplinary major, Gender and Women's Studies asks questions such as how women and men learn and perform gender; how gender is constructed and represented through language, individual behavior, and social/cultural institutions; how ideas of gender and gender roles have influenced human interactions with the natural world; and how people can recognize and work to transform the gender ideologies that shape our knowledge and action.

Gender and Women's Studies at Northland is distinguished by its interdisciplinary nature. By taking courses that are grounded in similar assumptions and that raise similar questions regarding gender, but that examine these assumptions and questions within different disciplines, students achieve an understanding of the complexity of the world around them and are more equipped to change it toward equality and ecological sustainability.

Gender and Women's Studies Major (B.A.)

Major Requirements:

- IDS 480 - Senior Seminar **3 Credits**

Six of the following core courses:

- ENG 233 - Women of the Third World **3 Credits**
- GWS 265 - Introduction to Gender and Women's Studies **3 Credits**
- GWS 266 - Ecofeminism **3 Credits**

- GWS 331 - Feminist Theory **3 Credits**
- HIS 209 - Gender in the United States Landscape **3 Credits**
- HIS 260 - Gender in Modern Europe **3 Credits**
- NAS 215 - Native American Women's History **3 Credits**
- SOC 234 - Sociology of Gender **3 Credits**
- SOC 236 - Sociology of Sexuality **4 Credits**
- SOC 381 - Undoing Racism **3 Credits**

Eight of the following courses not previously taken:

- BIO 343 - Biology of AIDS **3 Credits**
- ENG 216 - The Contemporary Novel **3 Credits**
- ENG 228 - Literature of the Arab World **4 Credits**
- ENG 234 - Science Fiction and Societal Collapse **4 Credits**
- ENG 233 - Women of the Third World **3 Credits**
- GWS 265 - Introduction to Gender and Women's Studies **3 Credits**
- GWS 266 - Ecofeminism **3 Credits**
- GWS 331 - Feminist Theory **3 Credits**
- HIS 209 - Gender in the United States Landscape **3 Credits**
- HIS 260 - Gender in Modern Europe **3 Credits**
- HIS 266 - American Material Culture/Objects in Everyday Life and History **3 Credits**
- HIS 357 - Gender in Total War **3 Credits**
- NAS 211 - Native American History and Experience **3 Credits**
- NAS 215 - Native American Women's History **3 Credits**
- NAS 283 - American Indian Literature **3 Credits**
- NAS 333 - Native American World Views **3 Credits**
- OED 279 - Access and Diversity **3 Credits**
- SOC 226 - Social Movements **3 Credits**
- SOC 234 - Sociology of Gender **3 Credits**
- SOC 236 - Sociology of Sexuality **4 Credits**
- SOC 301 - Mass Media and Popular Culture **3 Credits**
- SOC 336 - The Nature of Social Inequality **4 Credits**
- SOC 368 - Global Inequality **4 Credits**
- SOC 374 - Human Rights and Social Justice **3 Credits**

- * 490 - Independent Study
- * 491 - Field Experience

*A 490 Independent Study or 491 Field Experience (service course) can be taken in any discipline as long as the focus is relevant to gender and women's studies. Approval of the Gender and Women's Studies Program Coordinator and course instructor is required.

Total Gender and Women's Studies Major: 45-48 Credits

Gender and Women's Studies Minor

Minor Requirements:

Four of the following core courses:

- ENG 233 - Women of the Third World **3 Credits**
- GWS 265 - Introduction to Gender and Women's Studies **3 Credits**
- GWS 266 - Ecofeminism **3 Credits**
- GWS 331 - Feminist Theory **3 Credits**
- HIS 209 - Gender in the United States Landscape **3 Credits**
- HIS 260 - Gender in Modern Europe **3 Credits**
- NAS 215 - Native American Women's History **3 Credits**
- SOC 234 - Sociology of Gender **3 Credits**
- SOC 236 - Sociology of Sexuality **4 Credits**
- SOC 381 - Undoing Racism **3 Credits**

Four of the following elective courses:

- BIO 343 - Biology of AIDS **3 Credits**
- ENG 216 - The Contemporary Novel **3 Credits**
- ENG 228 - Literature of the Arab World **4 Credits**
- ENG 233 - Women of the Third World **3 Credits**
- ENG 234 - Science Fiction and Societal Collapse **4 Credits**
- GWS 265 - Introduction to Gender and Women's Studies **3 Credits**
- GWS 266 - Ecofeminism **3 Credits**
- GWS 331 - Feminist Theory **3 Credits**
- HIS 209 - Gender in the United States Landscape **3 Credits**
- HIS 260 - Gender in Modern Europe **3 Credits**
- HIS 266 - American Material Culture/Objects in Everyday Life and History **3 Credits**
- HIS 357 - Gender in Total War **3 Credits**
- NAS 211 - Native American History and Experience **3 Credits**
- NAS 215 - Native American Women's History **3 Credits**
- NAS 283 - American Indian Literature **3 Credits**
- NAS 333 - Native American World Views **3 Credits**
- OED 279 - Access and Diversity **3 Credits**
- SOC 226 - Social Movements **3 Credits**
- SOC 234 - Sociology of Gender **3 Credits**
- SOC 236 - Sociology of Sexuality **4 Credits**
- SOC 301 - Mass Media and Popular Culture **3 Credits**
- SOC 336 - The Nature of Social Inequality **4 Credits**
- SOC 368 - Global Inequality **4 Credits**
- SOC 374 - Human Rights and Social Justice **3 Credits**

- SOC 381 - Undoing Racism **3 Credits**

- *490 - Independent Study
- *491 - Field Experience

*A 490 Independent Study or 491 Field Experience (service course) can be taken in any discipline as long as the focus is relevant to gender and women's studies. Approval of the Gender and Women's Studies Program Coordinator and course instructor is required.

Total Gender and Women's Studies Minor: 24-27 Credits

Geographic Information Systems

The Geographic Information Systems (GIS) minor introduces students to the concepts and theory of GIS, and helps them to develop the practical skills necessary when using basic GIS software in a variety of applications.

Courses include three in using ArcGIS software, in addition to remote sensing, GPS, and geodatabases. Each course in the minor is a combination of both lecture and lab. In the lectures, conceptual elements are explained. Labs provide students with first-hand experience in critical thinking, data input and management, methods of analyses, and final map and report presentations.

Geographic Information Systems Minor

Minor Requirements:

- GIS 201 - Introduction to Geographic Information Systems **4 Credits**
- GIS 260 - Global Positioning Systems **1 Credits**
- GIS 301 - Intermediate GIS Applications **4 Credits**
- GIS 315 - Geodatabases **3 Credits**
- GIS 380 - Remote Sensing **4 Credits**
- GIS 401 - Advanced GIS Applications **4 Credits**

- GIS 492 - Internship **1 Credits**

Total Geographic Information Systems Minor: 21 Credits

History

The history major teaches students how to see and understand the world around them as the result of a complex set of dynamic interactions between culture, economics, politics, the environment, ideas, ideologies, and social trends. Students in this major learn how to

read critically, write clearly and authoritatively, and think comprehensively about the course of human events.

The history major offers students crucial skills for the job market, and prepares students for the pursuit of careers in journalism, writing, diplomacy, law, technical writing, ministry, public relations, public administration, and non-profit work as well as graduate studies in history, law or international relations.

History Major (B.A.)

Major Requirements:

Core Blocks: 18 Credits

Students must complete three two-course blocks. Each block must include a History (HIS) course and a non-history Humanities course with the prefix of ART, ENG, GWS, HUM, PHL, or REL. It is strongly recommended Western and non-Western components from several different historical eras are included.

27 Additional credits from the following:

- Additional History (HIS) courses

- ART 230 - Art History Ancient to Medieval **3 Credits**
- ART 231 - Art History Renaissance to Modern **3 Credits**
- ART 232 - Contemporary Art History **3 Credits**
- NAS 211 - Native American History and Experience **3 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**

- Other NAS courses with a strong history component

NOTE: A minimum of 9 of the 27 elective credits must be at the 300-level or higher.

Required:

- IDS 480 - Senior Seminar **3 Credits**

Total History Major: 48-49 Credits

History Minor

Minor Requirements:

- 21 HIS credits with at least 9 credits at the 300-level or above *

Note:

*Students are also strongly encouraged to select both western and non-western history courses for their minor.

Total History Minor: 21 Credits

Humanities

The Humanities major is an interdisciplinary major that focuses on exploring the human condition through the ideas, artistic movements, religions, ideologies, and intellectual structures that humans use, and have used, to understand and give meaning to their world. At the heart of this endeavor is the commitment to use multiple disciplinary perspectives from the humanities to understand ideas across multiple eras, regions, and cultures.

Students in this major will gain a strong foundation in critical thinking; reading and interpretive skills; comparative study; and effective writing in several disciplines. This major prepares students for any number of careers in the humanities, publishing, writing, journalism, government and diplomatic service, and also effectively prepares them for graduate study in law, journalism, English, History, Religious Studies, Seminary, Government and Diplomacy, Cultural Studies and Humanities.

Humanities Major (B.A.)

Humanities Major Requirements:

1. Students must complete four, XHH Connections blocks. (24 credits)
2. Students must take seven additional courses (beyond their blocks) with ART, ENG, GWS, HIS, HUM, MUS, NAS, PHL, REL, or WRI prefixes (21 credits)
3. Through their blocks or electives, students must take at least three courses in each of three different programs (e.g. three HIS, three GWS and three ART courses, or three REL, three MUS and three ENG courses)
4. Through their blocks or electives, students must take at least three courses at the 300 level or higher.
5. Students must take IDS 480 : Junior-Senior Seminar (3 credits)

Total Required Credits for Major: 48

Humanity and Nature Studies

Humanity & Nature Studies is a major designed for students who want to understand the complex relationships that people have with nature and, through this understanding, to make a difference in the world.

Integral to the courses in the major are three fundamental questions: Who am I? What is Nature? And, How do I interact with the world after my attempts to answer the first two questions?

The major emphasizes an interdisciplinary exploration of human-nature relationships that prepares students to weave together insights and methodologies from the humanities, social sciences, and natural sciences. Through these insights & methodologies, students broaden and deepen their understanding of how humans have conceived of their relationships to nature over time. Students who complete the Humanity & Nature Studies major develop a sophisticated understanding of how humans continue to conceive, construct, and fulfill their relationships to the natural world.

The major prepares students to pursue graduate or professional studies in fields, such as Environmental Law and Environmental Humanities, or for a variety of environmentally focused careers in business, education, government, industry, advertising, public policy, community planning, nature therapy, or the non-profit sector.

The Environmental Humanities minor provides students with a foundational understanding of how people have thought about their relationship to nature over time and across a variety of cultures. The minor is especially relevant for students who hope to pursue careers, such as Natural Resource management, environmental consulting, sustainable community development, or political organizing, that require them to understand and appreciate the values and attitudes that influence the decisions and actions of others in relationship to the natural world. The minor also offers a valuable course of study for students interested in exploring and better understanding the roots of their own relationships to nature.

Humanity and Nature Studies Major (B.A.)

Major Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 234 - Ecology **4 Credits**
- ENG 211 - Humanity and Nature in Literature **3 Credits**
- HIS 325 - Nature and Nation: Environment, Art, Ideology **3 Credits**

- HIS 241 - American Environmental History **3 Credits**

OR

- HIS 242 - European Environmental History **3 Credits**

- IDS 480 - Senior Seminar **3 Credits**
- NAS 315 - American Indian Environmental Perspectives **3 Credits**
- NAS 333 - Native American World Views **3 Credits**

- PHL 226 - Environmental Ethics **3 Credits**

OR

- PHL 262 - Environmental Philosophy **4 Credits**

- PSY 331 - Ecopsychology **3 Credits**
- REL 258 - Religion and Nature **3 Credits**

- SOC 315 - Sociology of Community **3 Credits**

OR

- SOC 341 - Sociology of the Environment **3 Credits**

One of the following:

- ENG 318 - Nature Writers **3 Credits**
- ENG 372 - Nature in Latin American Literature **3 Credits**
- ENG 377 - Green Romanticism **3 Credits**
- OED 328 - Wilderness Writers and Philosophers **3 Credits**

One of the following:

- ART 306 - Art Collaborations with Nature **3 Credits**
- ENG 240 - Pens and Paddles in the North Woods **4 Credits**
- IDS 280 - Trekking Planet Japan **4 Credits**
- IDS 281 - Spring in Italy **4 Credits**

- MUS 263 - Music and Nature **3 Credits**
- SOC 343 - Australian and New Zealand Culture **4 Credits**

Emphases:

To complete a major in Humanity and Nature Studies, choose one of the following emphases:

Global Humanities Emphasis

- ENG 217 - Contemporary Third World Literature **4 Credits**

OR

- ENG 233 - Women of the Third World **3 Credits**

- GWS 266 - Ecofeminism **3 Credits**
- IDS 254 - Diversity and the Environment **3 Credits**
- NAS 306 - Global Indigenous Politics **3 Credits**

Social Science and Leadership Emphasis:

- OED 221 - Group Process and Leadership **4 Credits**
- PSY 330 - Leadership for Change **3 Credits**
- SCD 235 - Forces of Change **3 Credits**
- SCD 335 - Organizing Communities **3 Credits**

Natural History Emphasis:

Two of the following:

- BIO 222 - Woodland Plants of Northern Wisconsin **4 Credits**
- BIO 225 - Aquatic Invertebrates **4 Credits**
- BIO 242 - Ichthyology **4 Credits**
- BIO 244 - Field Ornithology **4 Credits**
- BIO 245 - Mammalogy **4 Credits**

Two of the following:

- BIO 328 - Vegetative Communities of Northern Wisconsin **4 Credits**
- NRS 325 - Stream and Watershed Ecology **4 Credits**
- NRS 345 - Ecological Restoration **4 Credits**
- NRS 348 - Wildlife Ecology and Management **4 Credits**
- NRS 358 - Wetlands **4 Credits**

Total Humanity and Nature Studies Major with Emphasis: 56-63 Credits

Environmental Humanities Minor

Minor Requirements:

- ENG 211 - Humanity and Nature in Literature **3 Credits**
- ENG 318 - Nature Writers **3 Credits**
- HIS 325 - Nature and Nation: Environment, Art, Ideology **3 Credits**
- NAS 333 - Native American World Views **3 Credits**
- PHL 226 - Environmental Ethics **3 Credits**
- REL 258 - Religion and Nature **3 Credits**

- HIS 241 - American Environmental History **3 Credits**

OR

- HIS 242 - European Environmental History **3 Credits**

Total Environmental Humanities Minor: 21 Credits

Mathematical Sciences

Mathematics, at the core of a liberal arts education and the foundation of a science curriculum, is uniquely positioned as a program at Northland College. Students in the Mathematics program develop collaborative relationships with the Mathematics faculty that allow in-depth exploration of traditional mathematical concepts. These concepts are then broadened and applied in courses taught by faculty from other disciplines.

Thus, students who graduate with a Mathematical Sciences degree have a solid foundation in mathematical concepts, and knowledge and experience in applying those concepts to model environmental, social, or physical phenomena and to solve complex problems. This dual training prepares Northland graduates to gain admission to graduate schools in mathematics, engineering, and other fields and to secure employment in a wide variety of disciplines including teaching, business, and government.

Mathematical Sciences Major (B.S.)

Major Requirements:

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- MTH 207 - Biometry **4 Credits**

- MTH 230 - Mathematical Modeling **4 Credits**
- MTH 312 - Advanced Calculus **4 Credits**
- MTH 330 - Differential Equations **4 Credits**
- MTH 337 - Linear Algebra **4 Credits**
- MTH 470 - Advanced Topics in Mathematics **4 Credits**
- PHY 110 - General Physics I **4 Credits**

Additional Requirements:

- Additional courses with a quantitative focus **15-16 Credits**

Note: These courses must be chosen from within mathematical sciences or other programs in consultation with a mathematical sciences professor and should be selected to augment one's interests in mathematical sciences (e.g., College Geometry and Discrete Mathematics) or in support of one's combined interests in mathematics and another discipline (e.g., advanced physics or computer science). Note that some other courses of a quantitative nature may require pre-requisites in addition to those required above.

Total Mathematical Sciences Major: 55-56 Credits

Mathematical Sciences Minor

Minor Requirements:

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**

Additional Requirements:

- Additional MTH courses at the 200-level or higher **15-16 Credits**

Total Mathematical Sciences Minor: 27-28 Credits

Meteorology

For many, interest in meteorology begins at an early age with observations of, and a passion for, local weather. The meteorology major encourages students to pursue this passion and challenges them to strengthen and broaden their knowledge of the physical and chemical processes of the atmosphere and ocean. An understanding of the atmosphere and ocean helps students put environmental issues in an appropriate context.

Courses in the meteorology major emphasize hands-on experiences whenever possible. Students will become proficient in analyzing meteorological and climatological data. The curriculum will introduce students to a wide variety of atmospheric and oceanic topics.

Students will learn about physical mechanisms as well as tools used to measure the atmosphere and ocean.

The meteorology major will prepare students for employment in a number of areas. Students who successfully complete the major are eligible to receive the American Meteorological Society Certified Broadcast Meteorologist seal and the National Weather Association Broadcasting Seal. The curriculum also provides students with a strong foundation to continue their studies in graduate school or to pursue a career in other meteorological/climatological fields.

Meteorology Major (B.S.)

Major Requirements:

- CHM 245 - Atmospheric Chemistry and Climate **4 Credits**
- GIS 380 - Remote Sensing **4 Credits**
- MET 125 - Introduction to Meteorology **4 Credits**
- MET 364 - Synoptic Meteorology I **4 Credits**
- MET 387 - Mesoscale Meteorology **3 Credits**
- MET 464 - Dynamic Meteorology I **4 Credits**
- MET 467 - Physical Meteorology **3 Credits**
- MET 480 - Senior Seminar in Meteorology **3 Credits**
- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- MTH 312 - Advanced Calculus **4 Credits**
- MTH 330 - Differential Equations **4 Credits**
- PHY 110 - General Physics I **4 Credits**
- PHY 111 - General Physics II **4 Credits**
- PHY 330 - Thermodynamics **3 Credits**

One of the following

- MET 365 - Synoptic Meteorology II **4 Credits**
- MET 465 - Dynamic Meteorology II **4 Credits**
- PHY 306 - Classical Mechanics **3 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

One of the following:

- GIS 201 - Introduction to Geographic Information Systems **4 Credits**

- MET 255 - Practicum Broadcast Meteorology **3 Credits**
- MET 270 - Oceanography **4 Credits**

Total Meteorology Major: 66-68 Credits

Music

The Music minor grounds students in the theory and history of musical composition and performance over time and across cultures.

Music Minor

Minor Requirements:

- MUS 231 - Music Theory I **3 Credits**
- MUS 232 - Music Theory II **3 Credits**
- MUS 323 - Survey of Musical Styles I **3 Credits**
- MUS 324 - Survey of Musical Styles II **3 Credits**

- An additional 6 music (MUS) credits.

An additional 4 credits of ensemble participation:

- MUS 121 - Chamber Music in Performance **1 Credits**
- MUS 122 - Voice in Class **1 Credits**
- MUS 131 - Symphonic Band **0 - 1 Credits**
- MUS 141 - Northland Singers **0 - 1 Credits**
- MUS 151 - Jazz Band **0 - 1 Credits**
- MUS 161 - Chequamegon Symphony **0 - 1 Credits**
- MUS 171 - Chamber Choir **0 - 1 Credits**

An additional 4 credits of individual instruction:

- MUS 181 - Individual Brass Lessons **1 Credits**
- MUS 182 - Individual Guitar Lessons **1 Credits**
- MUS 183 - Individual Percussion Lessons **1 Credits**
- MUS 184 - Individual Piano Lessons **1 Credits**
- MUS 185 - Individual Strings Lessons **1 Credits**
- MUS 186 - Individual Voice Lessons **1 Credits**
- MUS 187 - Individual Woodwind Lessons **1 Credits**

Total Music Minor: 26 Credits

Native American Studies

The Native American studies major focuses on indigenous cultures and traditional teachings at the core of the program, with particular attention given to Lake Superior regional native history. The program includes first-hand contact with local tribes and native Ojibwe communities alongside a rigorous academic curriculum. The curriculum includes native worldviews and indigenous ways of knowing as a rich compliment to the environmental mission of the College.

This major also helps students understand the social, economic, and environmental situations related to the everyday lives of Native communities today. Graduates will be well prepared for work in tribal government and related businesses, careers in living history centers and museums, outdoor recreation and interpretation programs, social-service agencies, and advanced academic work in Native culture studies.

Native American Studies Major (B.A.)

Major Requirements:

- NAS 100 - Introduction to Native American Studies **3 Credits**

OR

- NAS 160 - Lake Superior Ojibwe **4 Credits**

- NAS 121 - Introduction to Ojibwe Language I **3 Credits**
- NAS 122 - Introduction to Ojibwe Language II **3 Credits**
- NAS 211 - Native American History and Experience **3 Credits**
- NAS 212 - Wisconsin Indian Cultures, History, and Contemporary Issues **3 Credits**
- NAS 215 - Native American Women's History **3 Credits**

- NAS 216 - Indigenous Representations **3 Credits**

OR

- NAS 231 - Native Arts, Media, and Sports **3 Credits**

- NAS 224 - Introduction to Tribal Legal Studies **3 Credits**
- NAS 283 - American Indian Literature **3 Credits**
- NAS 306 - Global Indigenous Politics **3 Credits**
- NAS 315 - American Indian Environmental Perspectives **3 Credits**

- NAS 333 - Native American World Views **3 Credits**
- NAS 360 - Native Leadership & Ethics **3 Credits**

Two of the following:

- NAS 221 - Intermediate Ojibwe Language I **3 Credits**
- NAS 227 - Food Sovereignty **3 Credits**
- NAS 319 - Northern Plains Cultures **3 Credits**
- NAS 325 - Native Youth Empowerment **3 Credits**

- NAS 450 - Special Topics in Native American Studies **3 Credits**

Consult advisor if interested in non-NAS electives **3-4 Credits**

One of the following:

- IDS 480 - Senior Seminar **3 Credits**
- NAS 479 - Native American Studies Seminar **3 Credits**

- NAS 490 - Native American Independent Study **3 Credits**
- NAS 492 - Internship **3 Credits**

Total Native American Studies Major: 48-50 Credits

Native American Studies Minor

Minor Requirements:

- NAS 100 - Introduction to Native American Studies **3 Credits**

OR

- NAS 160 - Lake Superior Ojibwe **4 Credits**

- NAS 211 - Native American History and Experience **3 Credits**
- NAS 283 - American Indian Literature **3 Credits**
- NAS 315 - American Indian Environmental Perspectives **3 Credits**

Additional Requirements:

- Additional NAS courses **12 Credits**

Total Native American Studies Minor: 24 Credits

Natural Resources

The natural resources program provides students with a liberal arts education and ecological, economic, regulatory, and management foundations necessary to use, protect, and enhance natural resources. Students address the complexities inherent in evaluating the needs of different user groups and understand the multiple demands on natural resources.

Students acquire the knowledge and skills necessary to communicate effectively, manage resources, and solve problems and conflicts. Practical experience is gained from field activities, working in groups, preparing plans and budgets, and analyzing data. The natural resources major prepares students for graduate school and careers in government, tribal agencies, not-for-profit organizations, and the private sector.

Natural Resources Major (B.S.)

Major Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 234 - Ecology **4 Credits**
- BIO 330 - Genetics **4 Credits**
- ECN 310 - Environmental Economics **3 Credits**
- GIS 201 - Introduction to Geographic Information Systems **4 Credits**
- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- NRS 215 - Natural Resources Policy **3 Credits**
- NRS 480 - Integrated Ecosystem Management **4 Credits**

One of the following:

- CHM 103 - General Chemistry: The Chemistry of Food **4 Credits**
- CHM 105 - General Chemistry: Chemistry in Social Context **4 Credits**
- CHM 108 - General Chemistry: Respondng to Climate Change **4 Credits**
- CHM 110 - General Chemistry **4 Credits**

Emphases:

To complete a major in Natural Resources, choose one of the following emphases:

Ecological Restoration Emphasis:

- BIO 328 - Vegetative Communities of Northern Wisconsin **4 Credits**
- GSC 120 - Physical Geology **4 Credits**
- NRS 345 - Ecological Restoration **4 Credits**

Two of the following:

- BIO 473 - Limnology **4 Credits**
- NRS 325 - Stream and Watershed Ecology **4 Credits**
- NRS 358 - Wetlands **4 Credits**

One of the following:

- BIO 222 - Woodland Plants of Northern Wisconsin **4 Credits**
- BIO 225 - Aquatic Invertebrates **4 Credits**
- BIO 242 - Ichthyology **4 Credits**
- BIO 244 - Field Ornithology **4 Credits**
- BIO 245 - Mammalogy **4 Credits**

One of the following:

- GSC 222 - Sediments and Soils **4 Credits**
- GSC 305 - Hydrology **4 Credits**
- GSC 320 - Landforms **4 Credits**

Fisheries and Wildlife Ecology Emphasis:

- BIO 360 - Vertebrate Physiology **4 Credits**
- MTH 207 - Biometry **4 Credits**
- NRS 225 - Fisheries and Wildlife Techniques **4 Credits**

One of the following:

- BIO 225 - Aquatic Invertebrates **4 Credits**
- BIO 242 - Ichthyology **4 Credits**
- BIO 244 - Field Ornithology **4 Credits**
- BIO 245 - Mammalogy **4 Credits**
- BIO 246 - Ornithology **4 Credits**

Three of the following:

- BIO 328 - Vegetative Communities of Northern Wisconsin **4 Credits**
- BIO 473 - Limnology **4 Credits**
- NRS 325 - Stream and Watershed Ecology **4 Credits**
- NRS 348 - Wildlife Ecology and Management **4 Credits**

- NRS 349 - Fisheries Science and Management **4 Credits**
- NRS 358 - Wetlands **4 Credits**

Forestry Emphasis:

- BIO 222 - Woodland Plants of Northern Wisconsin **4 Credits**
- BIO 328 - Vegetative Communities of Northern Wisconsin **4 Credits**
- NRS 347 - Sustainable Forest Management **4 Credits**
- NRS 361 - Forest Mensuration **4 Credits**
- NRS 363 - Fire Ecology and Management **3 Credits**
- NRS 425 - Silviculture and Harvest **4 Credits**

- GIS 260 - Global Positioning Systems **1 Credits**

OR

- NRS 102 - Wildland Firefighter Training **1 Credits**

One of the following:

- GSC 222 - Sediments and Soils **4 Credits**
- NRS 325 - Stream and Watershed Ecology **4 Credits**
- NRS 345 - Ecological Restoration **4 Credits**

Total Natural Resources Major with Emphasis: 62 Credits

Outdoor Education

The Outdoor Education program provides students with the skills, knowledge, experience, and confidence to enter the profession as an educator and a leader. At Northland, students work with faculty who are redefining the role of outdoor education in environmental and social sustainability, gain experience providing outdoor and environmental education to children and adults, and engage people of all ages and abilities in establishing sustainable relationships with nature and humanity.

While in the program, students gain an understanding of the principles that guide effective outdoor education experiences, read the works of leading outdoor educators, gain perspective from historical expeditions, and embark on their own experiences within the woods, waters, and wilderness of our region. Students also develop advanced professional skills and knowledge during their junior and senior years under the close supervision and support of program faculty. Finally, students join a family of graduates who are experienced educators of universally designed outdoor and environmental education and skilled in sustainable outdoor living and travel principles and practices.

Outdoor Education's Embedded Curricula

Northland College leads the Outdoor Education profession in the development of environmentally sustainable and universally designed practices for outdoor education programs. To provide our students with the best professional-level knowledge and skill, we embed cutting-edge curricula throughout our courses in the areas of Access and Diversity and Responsible Environmental Impact in the following ways.

Access and Diversity in Outdoor Education

Students explore ways to include under-represented and marginalized populations in outdoor education. In select courses each semester, faculty and students work together to incorporate universal design into outdoor education activities, programs, and professional skill development. When congruent with course intent, students apply skills and knowledge in community-based experiences in support of under-served populations.

Responsible Environmental Impact in Outdoor Education

In select courses each semester, faculty and students work together to study popular practices of the outdoor education profession and to identify and apply alternatives that reduce adverse impacts on our natural environments and human societies by using the As Sustainable as Possible (ASAP) model developed by Northland College Students and faculty.

Outdoor Education Major (B.S.)

Major Requirements:

- OED 107 - Basic Canoeing **1 Credits**
- OED 109 - Basic Sea Kayaking **1 Credits**
- OED 110 - Wilderness Navigation **1 Credits**
- OED 114 - Basic Rock Climbing **1 Credits**
- OED 116 - Backpacking **1 Credits**
- OED 221 - Group Process and Leadership **4 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**
- OED 270 - Facilitating Challenge Course Programs **4 Credits**
- OED 276 - Foundation and Principles of Outdoor Education **3 Credits**
- OED 328 - Wilderness Writers and Philosophers **3 Credits**
- OED 424 - Outdoor Education Programming and Risk Management **4 Credits**
- OED 496 - Outdoor Education Capstone **3 - 4 Credits**

- OED 210 - Inclusive Outdoor Education **3 Credits**

OR

- OED 279 - Access and Diversity **3 Credits**

- OED 332 - Winter Travel and Living Skills **4 Credits**

OR

- OED 446 - Wilderness Instructor Training **4 Credits**

Outdoor Education Professional Development Block

The following four courses are taken concurrently during fall term of the junior year

- OED 237 - Woodscraft and Woodland Skills **2 Credits**
- OED 324 - Water Skills and Water Travel **5 Credits**
- OED 326 - Land Travel, and Camping Skills **5 Credits**
- OED 381 - Outdoor Education Teaching Techniques **5 Credits**

Emphases:

To complete a major in Outdoor Education, choose one of the following emphases:

Therapeutic and Universal Design Emphasis:

- OED 437 - Universal Design Laboratory **4 Credits**
- OED 439 - Therapeutic Principles and Practices **4 Credits**

- Relevant Field Experience, Independent Study, Research or Teaching Assistant **2-4 Credits**

Natural History and Interpretation Emphasis:

- OED 361 - Interpretive Program Design **3 Credits**
- OED 362 - Apostle Island School Preparation **0 - 1 Credits**
- OED 363 - Apostle Islands School **4 Credits**
- OED 425 - Advanced Topics in Natural History **3 Credits**

Wilderness Leadership Emphasis:

Two from the following:

- OED 330 - National Outdoor Leadership School Course **1-4 Credits**
- OED 331 - Outward Bound Course **1 - 3 Credits**

- OED 332 - Winter Travel and Living Skills **4 Credits**
- OED 446 - Wilderness Instructor Training **4 Credits**

* Completion of OED 332 or OED 446, whichever is not completed in the core requirements, or completion of a NOLS or Outward Bound experience.

One from the following:

- American Canoe Association Instructor certification or equivalent in one discipline.
- American Mountain Guide Association instructor certification in one discipline.
- Wilderness First Responder certification.

Total Outdoor Education Major with Emphasis: 56-67 Credits

Outdoor Education Minor

Minor Requirements:

- OED 221 - Group Process and Leadership **4 Credits**
- OED 261 - Environmental Education Curriculum Review **4 Credits**
- OED 276 - Foundation and Principles of Outdoor Education **3 Credits**
- OED 328 - Wilderness Writers and Philosophers **3 Credits**

Additional Requirements:

- Completion of two land-skill courses and two water-skill courses at Level 2 or higher in the Northland College Wellness Co-curriculum.
    - Land Skills: backpacking, wilderness navigation, earth skills, rock climbing.
    - Water Skills: canoeing, coastal kayaking, river kayaking.

OR

- Completion of an Outward Bound or National Outdoor Leadership School course of 25 days or longer.

Total Outdoor Education Minor: 16-20 Credits

Philosophy

A minor in philosophy develops critical thinking skills in the evolving Western tradition and can be combined with any major. A philosophy minor provides excellent preparation for graduate studies, law school, or business, community development, or simply for leading a better life.

Philosophy Minor

Minor Requirements:

- PHL 225 - Ethics **3 Credits**

OR

- PHL 226 - Environmental Ethics **3 Credits**

- PHL 270 - Philosophy of Science **4 Credits**
- PHL 276 - Logic **3 Credits**
- PHL 282 - Contemporary Western Philosophy **3 Credits**
- PHL 330 - Philosophy of Language **3 Credits**

Two of the following:

- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- HIS 112 - History of World Civilizations since 1500 **3 Credits**
- HIS 234 - Ideology in the 20th Century **3 Credits**
- HIS 320 - The Enlightenment **3 Credits**
- PHL 262 - Environmental Philosophy **4 Credits**
- PHL 266 - Environmental Aesthetics **4 Credits**
- PHL 360 - Concepts of Nature **3 Credits**
- REL 230 - Asian Religions and Philosophies **3 Credits**

Total Philosophy Minor: 21-22 Credits

Physics

Physics minor coursework covers basic principles and scientific techniques of physics. It includes advanced instruction in atmospheric physics, thermodynamics, classical mechanics, and modern physics.

As the broadest of the sciences, physics provides rigorous problem-solving training that is applicable across the disciplines. A minor in physics is a particularly appropriate complement to majors or advanced studies in biology, chemistry, meteorology, geology, engineering, and computer science.

Physics Minor

Minor Requirements:

- MTH 140 - Calculus I **4 Credits**
- MTH 141 - Calculus II **4 Credits**
- PHY 110 - General Physics I **4 Credits**
- PHY 111 - General Physics II **4 Credits**
- PHY 330 - Thermodynamics **3 Credits**

- An additional 6 PHY credits.

Total Physics Minor: 25 Credits

Psychology

Major coursework focuses on appreciating and understanding the human condition from a scientific, psychological point of view. Students completing the major in psychology possess a breadth of knowledge pertaining to the major principles, theoretical approaches, and findings in psychology. Students develop the ability to not only understand psychological principles but to apply these principles, approaches and findings to individual, group, and social issues. Upon graduating, students will be ready to apply their knowledge and skill directly in the workforce or to pursue further interests in graduate studies.

Psychology minor coursework focuses on appreciating and understanding the human condition from a scientific, psychological point of view. Students completing the minor in psychology possess a breadth of knowledge pertaining to the major principles, theoretical approaches, and findings in psychology. Students develop an understanding of the relevance and applicability of psychological principles, approaches and findings to individual, group, and social issues. Of particular emphasis are applications that are relevant to the relationship between humans and nature.

A psychology minor is richly supportive of any major as it prepares students to understand and analyze the social and psychological processes at work in any field of study or practical endeavor.

Psychology Major

Major Requirements

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- PSY 110 - General Psychology **4 Credits**

- PSY 225 - Experimental Psychology **3 Credits**

OR

- SOC 370 - Social Science Research Methods **4 Credits**

- PSY 448 - Capstome **4 Credits**

Three of the following:

- PSY 203 - Lifespan Developmental Psychology **3 Credits**
- PSY 233 - Social Psychology **3 Credits**
- PSY 234 - Theories of Personality **3 Credits**
- PSY 346 - Abnormal Psychology **3 Credits**

Additional Requirements

- Additional PSY credits (9 must be 300-level or higher) **18 Credits**

Total Psychology Major: 42 - 43 Credits

Psychology Minor

Minor Requirements:

- PSY 110 - General Psychology **4 Credits**

- Two 200-level PSY courses **6 Credits**

- One 300-level PSY course **3 Credits**

Additional Requirements:

An additional 9 to 10 credits from one or more of the following categories:

- Any PSY course not previously completed

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- SOC 370 - Social Science Research Methods **4 Credits**

Total Psychology Minor: 22-23 Credits

Religious Studies

The religious studies major engages students in fundamental questions of human knowledge, morality, and faith. The program includes an interdisciplinary approach to religion, including philosophy as part of the core curriculum. The course of studies emphasizes global faith perspectives and seeks to foster critical thinking, engage a broad

spectrum of ideas, and develop strong written and oral expression. Classes involve a free exchange of ideas and a strong emphasis on group discussion.

Religious Studies Major (B.A.)

Major Requirements:

- HIS 111 - History of World Civilizations to 1500 **3 Credits**
- PHL 225 - Ethics **3 Credits**
- PHL 360 - Concepts of Nature **3 Credits**
- REL 219 - The Nature of Religious Experience **3 Credits**
- REL 229 - Idea of God **3 Credits**
- REL 230 - Asian Religions and Philosophies **3 Credits**
- REL 231 - Buddhism **3 Credits**
- REL 315 - Christian Thought **3 Credits**

One of the following:

- IDS 280 - Trekking Planet Japan **4 Credits**
- IDS 281 - Spring in Italy **4 Credits**
- PHL 276 - Logic **3 Credits**
- REL 257 - Death and Dying **3 Credits**

- Other courses with the consent of the major advisor **3 Credits**

Senior Capstone (one of the following):

- IDS 480 - Senior Seminar **3 Credits**

- IDS 496 - Independent Study **3 Credits**

- IDS 497 - Independent Study **3 Credits**

- PHL 330 - Philosophy of Language **3 Credits**
- REL 331 - Zen Buddhism **3 Credits**

An additional 5 elective courses from the following:

- ENG 384 - Literary Criticism **3 Credits**
- GWS 331 - Feminist Theory **3 Credits**
- HIS 263 - History of the Middle East **3 Credits**
- HIS 270 - The Holocaust **3 Credits**
- NAS 333 - Native American World Views **3 Credits**
- OED 224 - North Woods Pathways **4 Credits**
- OED 328 - Wilderness Writers and Philosophers **3 Credits**
- SOC 225 - Social Problems **3 Credits**

- Any course with a REL or PHL prefix not used to satisfy major requirements above **3 Credits**

- Other courses with consent of major advisor **3 Credits**

Total Religious Studies Major: 45-48 Credits

Religion Minor

Minor Requirements

- REL 219 - The Nature of Religious Experience **3 Credits**
- REL 220 - Myth and Ritual **3 Credits**
- REL 229 - Idea of God **3 Credits**
- REL 230 - Asian Religions and Philosophies **3 Credits**

One of the following:

- IDS 280 - Trekking Planet Japan **4 Credits**
- IDS 281 - Spring in Italy **4 Credits**
- REL 257 - Death and Dying **3 Credits**

One of the following:

- REL 315 - Christian Thought **3 Credits**
- REL 330 - Islam **3 Credits**
- REL 331 - Zen Buddhism **3 Credits**

Additional Requirements

- An additional 6 REL credits

Total Religion minor: 24-25 Credits

Sociology and Social Justice

The objective of the sociology and social justice program is to provide students with both a theoretical and practical understanding of the discipline of sociology and the interdisciplinary field of social justice. One comprehensively designed program will prepare students for graduate studies and develop in them practical skills for involved citizenship at the local, state, national, and even global level. Constructive approaches to the pressing issues of identity, equality, resource distribution, diversity, and environmental sustainability will be explored at the personal, governmental, and societal levels. The core question of the program is: How are democracy, equality, environmental protection, and sustainability to be achieved? Students in the program are strongly

encouraged to take advantage of experiential opportunities through internships, volunteer opportunities, travel-study, and community justice work.

Students completing the program will have developed skills in critical analysis, conflict resolution, various social science research methods, writing, public presentations, and socially responsible citizenship. The strong emphasis on theory and research methods ensures that graduates will be well qualified for graduate studies in a variety of fields.

Sociology and Social Justice Major (B.S.)

Major Requirements:

- MTH 107 - Statistical Concepts and Analysis **4 Credits**

- SOC 111 - Introduction to Sociology **4 Credits**

OR

- SOC 260 - Introduction to Sociology - Superior Connections **4 Credits**

- SOC 226 - Social Movements **3 Credits**
- SOC 336 - The Nature of Social Inequality **4 Credits**
- SOC 370 - Social Science Research Methods **4 Credits**
- SOC 448 - Sociological Theory **3 Credits**
- SOC 488 - Capstone in Sociology and Social Justice **4 Credits**

SOC 291/491 - Field Experience **3 - 4 Credits**

OR

SOC 292/492 - Internship **3 - 4 Credits**

Additional Requirements 21 Credits

(At least 12 must be 300-level or above.)

- SCD 230 - The Political Process **3 Credits**
- SCD 422 - Capitalism, Justice, and Sustainability **3 Credits**
- SOC 234 - Sociology of Gender **3 Credits**
- SOC 236 - Sociology of Sexuality **4 Credits**

- SOC 240 - Cultural Ecology **3 Credits**
- SOC 301 - Mass Media and Popular Culture **3 Credits**
- SOC 302 - Sociology of Culture **3 Credits**
- SOC 315 - Sociology of Community **3 Credits**
- SOC 332 - Crime, Deviance, and Social Justice **3 Credits**
- SOC 341 - Sociology of the Environment **3 Credits**
- SOC 374 - Human Rights and Social Justice **3 Credits**
- SOC 472 - Advanced Justice Studies **4 Credits**
- SOC 481 - Qualitative Research Methods **4 Credits**

- SOC 290/490 - Independent Study **3-4 Credits**

Total Sociology and Social Justice Major: 45-52 Credits

Sociology and Social Justice Minor

Minor Requirements:

- MTH 107 - Statistical Concepts and Analysis **4 Credits**
- SOC 111 - Introduction to Sociology **4 Credits**
- SOC 336 - The Nature of Social Inequality **4 Credits**
- SOC 381 - Undoing Racism **3 Credits**
- SOC 448 - Sociological Theory **3 Credits**

- An additional 6-8 SOC credits.

Total Sociology and Social Justice Minor: 25-27 Credits

Sustainable Community Development

"Northland College aims, by academic excellence and sustainable practice, to lead the way to a world where integrated natural communities can thrive together indefinitely."

The Sustainable Community Development major is designed for students who are interested in the interdependence of environmental, economic, and social issues and who want to strengthen their abilities to become effective community change agents. Sustainable Community Development offers courses in a wide range of areas including the theory and practice of Sustainable Community Development, community-building, co-operative economies, globalization, and social enterprises and leadership for Sustainable Community Development.

Students and faculty study the relationships among theory, practice, values, social and institutional structures, and various socio-environmental change processes. The program is designed to integrate knowledge gained in an academic setting with learning acquired through volunteer work, personal experience, internships, the programs of the Sigurd Olson Environmental Institute, and the experiences of regional community members.

Central to this curriculum is the development of the whole person-a process that emphasizes social values, creativity, and the recognition that community involvement is necessary for individual growth and the enrichment of our society.

Sustainable Community Development majors prepare for careers in diverse areas such as government service, environmental consulting, urban & rural land-use planning, economic development, community development, and Director of Sustainability positions in both the public and private sector.

Sustainable Community Development Major (B.A.)

Major Requirements:

- BIO 115 - Concepts of Biology **4 Credits**

OR

- BIO 128 - Natural History and Conservation in the Lake Superior Watershed **4 Credits**

- BIO 234 - Ecology **4 Credits**
- BUS 226 - Essentials of Economics **4 Credits**
- BUS 362 - Non-Profit Management **3 Credits**
- ECN 310 - Environmental Economics **3 Credits**
- GIS 201 - Introduction to Geographic Information Systems **4 Credits**
- MTH 107 - Statistical Concepts and Analysis **4 Credits**

- SCD 110 - Introduction to Sustainable Community Development **4 Credits**

OR

- SCD 225 - Sustainable Development in the Lake Superior Watershed **4 Credits**

- SCD 220 - Sustainable Community Planning **3 Credits**
- SCD 230 - The Political Process **3 Credits**
- SCD 335 - Organizing Communities **3 Credits**
- SCD 422 - Capitalism, Justice, and Sustainability **3 Credits**
- SCD 430 - Sustainable Development Theory **4 Credits**

- SCD 497 - Senior Capstone **4 Credits**

- SOC 315 - Sociology of Community **3 Credits**
- SOC 381 - Undoing Racism **3 Credits**
- SOC 370 - Social Science Research Methods **4 Credits**

Total Sustainable Community Development Major: 60 Credits

Sustainable Community Development Minor

Minor Requirements:

- SCD 110 - Introduction to Sustainable Community Development **4 Credits**
- SCD 220 - Sustainable Community Planning **3 Credits**
- SCD 230 - The Political Process **3 Credits**
- SCD 335 - Organizing Communities **3 Credits**
- SOC 370 - Social Science Research Methods **4 Credits**
- SCD 422 - Capitalism, Justice, and Sustainability **3 Credits**
- SOC 315 - Sociology of Community **3 Credits**
- SCD 430 - Sustainable Development Theory **4 Credits**

Total Sustainable Community Development Minor: 26 Credits

Writing

The Writing program combines the formal study of English literature with practice in the art and craft of writing fiction, poetry, and creative non-fiction. Coursework for Writing majors and minors includes a full range of classes in the genres, from introductory courses to advanced workshops. Because an understanding of the literary traditions in which they work is essential to the development of serious writers, writing students at Northland are also immersed in the study of literature.

Northland is home to a vibrant community of writers: students and faculty publish their writing locally and nationally, regularly give public readings, and work with visiting writers who conduct workshops and read at the College. A variety of campus publications, including Mosaic, Northland's undergraduate literary journal, provide ample opportunities for students to work in local publishing and to find audiences for both creative writing and journalism. The annual Barbara Bretting Creative Writing and Photography Awards offer monetary prizes for outstanding student creative work. Writing students take their studies beyond the classroom through internships in professional settings; these experiences allow them to explore career interests and gain on-the-job skills.

Career possibilities for graduates in Writing include editing for publishing companies, writing for magazines, and working in public relations, marketing, technical writing, teaching, or other occupations that require one to write well, read perceptively, and communicate effectively.

Writing Major (B.A.)

Major Requirements:

- ART 262 - Digital Photography I **3 Credits**
- ENG 387 - The English Language **4 Credits**
- WRI 260 - Introduction to Creative Writing **3 Credits**
- WRI 361 - Creative Writing: Fiction **3 Credits**
- WRI 362 - Creative Writing: Poetry **3 Credits**

- WRI 461 - Seminar in Fiction Writing **4 Credits**

OR

- WRI 462 - Seminar in Poetry Writing **4 Credits**

- WRI 492 - Internship **3 Credits**

One of the following:

- WRI 224 - News Writing & Reporting **3 Credits**
- WRI 273 - Writing the Environmental Essay **3 Credits**
- WRI 363 - Writing Literary NonFiction **3 Credits**

Additional Requirements

- Additional courses in ENG or WRI **15 Credits**

  Note: At least 9 must be ENG

Total Writing Major: 41 Credits

Writing Minor

Minor Requirements:

- WRI 260 - Introduction to Creative Writing **3 Credits**

- WRI 461 - Seminar in Fiction Writing **4 Credits**

OR

- WRI 462 - Seminar in Poetry Writing **4 Credits**

- An additional 9 WRI credits

OR

- 6 WRI credits **and**

- ART 262 - Digital Photography I **3 Credits**

- An additional 6 ENG credits

One of the following:

- WRI 361 - Creative Writing: Fiction **3 Credits**
- WRI 362 - Creative Writing: Poetry **3 Credits**
- WRI 363 - Writing Literary NonFiction **3 Credits**

Total Writing Minor: 25 Credits

Directed Studies

A directed studies major or minor is available for students who have an unusual breadth of academic preparation, a high level of motivation and perseverance, and the ability to assume independence in undertaking their academic work. Directed Studies majors and minors are designed by individual students in consultation with a faculty advisory committee.

Students who wish to declare a Direct Studies major or minor must complete a Directed Studies Application form and submit it to the Registrar's Office. The Academic Standings Committee reviews and, when appropriate, approves student applications to complete a Directed Studies major or minor.

See the Registrar's Office for the necessary form.

Directed Studies Major (B.S.)

Requirements for a Directed Study Major or Minor

- The directed studies program will contain mostly regular Northland College courses, with additional selected studies, internships, independent study courses, and research courses and projects designed to meet the student's individual needs.
- A student pursuing a directed studies major may not complete a second major concurrently. A student pursuing a directed studies minor must avoid duplication of courses from their chosen major.
- All directed studies degree programs must be approved by the Academic Standings Committee of the Academic Council.
- A student wishing to pursue one of these programs needs a minimum GPA of 3.00 and is expected to maintain that GPA.
- Proposals for the directed studies program must be submitted to the Registrar's Office no later than November 10th of the student's junior year.
- The student must assemble a Faculty Advisory Committee to oversee their directed studies program. The student's Faculty Advisory Committee consists of a chair, which may be his/her academic advisor, and two other regularly contracted faculty members. At least one faculty member must be within the student's area of focus. The Faculty Advisory Committee must approve the proposal before it is submitted to the Registrar's Office.
- The Chair coordinates input from the faculty members serving on the committee during preparation and ongoing assessment of the proposal.
- The proposal must contain a detailed and explicit statement of rationale, showing precisely why a directed studies program is appropriate, how it prepares the student for further study or professional involvement, and how this differs from a traditional major. In addition, the proposal should show how each course proposed contributes to the major.
- The proposal must identify a specific focus and show how the independently designed program addresses that focus.
- The proposal must state how and when the student's program will be evaluated. A senior thesis or similar capstone experience, integrating all aspects of the student's program, is to be included in the program design.
- Directed studies program proposals normally include a minimum of 30 semester hours of upper division (300-400) level courses. A minimum of 12 semester hours in one program area is expected.
- Once the proposal is approved, the student is required to meet with his/her Faculty Advisory Committee to complete and submit a Directed Studies Program Continuance Form at the end of each semester. All changes to a student's original approved proposal must be approved by the Academic Standings Committee.
- The student and the committee chair will coordinate a meeting with the other committee members at the completion of all directed studies requirements to evaluate the success of the proposal.

Directed Studies Major (B.A.)

Requirements for a Directed Study Major or Minor

- The directed studies program will contain mostly regular Northland College courses, with additional selected studies, internships, independent study courses, and research courses and projects designed to meet the student's individual needs.
- A student pursuing a directed studies major may not complete a second major concurrently. A student pursuing a directed studies minor must avoid duplication of courses from their chosen major.
- All directed studies degree programs must be approved by the Academic Standings Committee of the Academic Council.
- A student wishing to pursue one of these programs needs a minimum GPA of 3.00 and is expected to maintain that GPA.
- Proposals for the directed studies program must be submitted to the Registrar's Office no later than November 10th of the student's junior year.
- The student must assemble a Faculty Advisory Committee to oversee their directed studies program. The student's Faculty Advisory Committee consists of a chair, which may be his/her academic advisor, and two other regularly contracted faculty members. At least one faculty member must be within the student's area of focus. The Faculty Advisory Committee must approve the proposal before it is submitted to the Registrar's Office.
- The Chair coordinates input from the faculty members serving on the committee during preparation and ongoing assessment of the proposal.
- The proposal must contain a detailed and explicit statement of rationale, showing precisely why a directed studies program is appropriate, how it prepares the student for further study or professional involvement, and how this differs from a traditional major. In addition, the proposal should show how each course proposed contributes to the major.
- The proposal must identify a specific focus and show how the independently designed program addresses that focus.
- The proposal must state how and when the student's program will be evaluated. A senior thesis or similar capstone experience, integrating all aspects of the student's program, is to be included in the program design.
- Directed studies program proposals normally include a minimum of 30 semester hours of upper division (300-400) level courses. A minimum of 12 semester hours in one program area is expected.
- Once the proposal is approved, the student is required to meet with his/her Faculty Advisory Committee to complete and submit a Directed Studies Program Continuance Form at the end of each semester. All changes to a student's original approved proposal must be approved by the Academic Standings Committee.
- The student and the committee chair will coordinate a meeting with the other committee members at the completion of all directed studies requirements to evaluate the success of the proposal.

Directed Studies Minor

Requirements for a Directed Study Major or Minor

- The directed studies program will contain mostly regular Northland College courses, with additional selected studies, internships, independent study courses, and research courses and projects designed to meet the student's individual needs.
- A student pursuing a directed studies major may not complete a second major concurrently. A student pursuing a directed studies minor must avoid duplication of courses from their chosen major.
- All directed studies degree programs must be approved by the Academic Standings Committee of the Academic Council.
- A student wishing to pursue one of these programs needs a minimum GPA of 3.00 and is expected to maintain that GPA.
- Proposals for the directed studies program must be submitted to the Registrar's Office no later than November 10th of the student's junior year.
- The student must assemble a Faculty Advisory Committee to oversee their directed studies program. The student's Faculty Advisory Committee consists of a chair, which may be his/her academic advisor, and two other regularly contracted faculty members. At least one faculty member must be within the student's area of focus. The Faculty Advisory Committee must approve the proposal before it is submitted to the Registrar's Office.
- The Chair coordinates input from the faculty members serving on the committee during preparation and ongoing assessment of the proposal.
- The proposal must contain a detailed and explicit statement of rationale, showing precisely why a directed studies program is appropriate, how it prepares the student for further study or professional involvement, and how this differs from a traditional major. In addition, the proposal should show how each course proposed contributes to the major.
- The proposal must identify a specific focus and show how the independently designed program addresses that focus.
- The proposal must state how and when the student's program will be evaluated. A senior thesis or similar capstone experience, integrating all aspects of the student's program, is to be included in the program design.
- Directed studies program proposals normally include a minimum of 30 semester hours of upper division (300-400) level courses. A minimum of 12 semester hours in one program area is expected.
- Once the proposal is approved, the student is required to meet with his/her Faculty Advisory Committee to complete and submit a Directed Studies Program Continuance Form at the end of each semester. All changes to a student's original approved proposal must be approved by the Academic Standings Committee.
- The student and the committee chair will coordinate a meeting with the other committee members at the completion of all directed studies requirements to evaluate the success of the proposal.

Special Courses

Special courses include internships, independent studies, arranged courses, field experiences, senior theses, teaching assistantships, and research assistantships. Students may enroll in special courses provided they meet all eligibility criteria. These courses will

not be added to a student's schedule until the appropriate form is completed and processed by the Registrar's Office.

To register for a special course, students must complete the appropriate registration form, available through the Registrar's Office or my.northland.edu. This form needs to be completed in its entirety, including details regarding the course and the required signatures of approval. The instructor for the special course must be a member of the academic department to which the course is being assigned. The Special Course Registration Form must be turned into the Registrar's Office by the end of the add/drop period of the term in which a student will be participating in the special course.

Special courses are offered at the 200 and 400 course levels, with the exception of senior capstones, which are only offered at the 400 level. The difference between 200 and 400 level special courses is the rigor and application of skills and knowledge required to complete the course.

No more than 12 internship, field experience, research assistant, or teaching assistant credits may be applied towards requirements for the baccalaureate degree with the exception of the Outdoor Education major.

Field Experiences and Internships

Registration form: Internship and Field Experience Registration

A field experience or internship is a way to gain practical, hands-on work experience utilizing the theories and skills learned through the student's course of studies. Students may pursue such opportunities locally or elsewhere and may receive pay for their experiences. In addition to opportunities on campus, in the Chequamegon Bay area there are diverse opportunities available for student experiences with state and federal governmental agencies, non-profit organizations, for-profit organizations, tribal governments, municipalities, as well as with other organizations.

Students may receive academic credit for a field experience or internship. Students who wish to participate in either option must make arrangements with a faculty member to develop a description, goals, and evaluation criteria for the experience or internship. When a field experience or internship includes work with a cooperating organization, a supervisor from the cooperating organization must submit to the faculty member an evaluation halfway through and at the end of the student's experience to confirm that the student has met the pre-arranged criteria. The faculty member assigns a grade at the end of the experience based upon the supervisor's evaluation, a final debrief with the student, and any other work the student has agreed to submit. Students earn either a Satisfactory (S) or Unsatisfactory (U) grade. Internships and field experiences are treated like any other academic course with the work started and completed during the term in which the student is enrolled for credit.

Students should register for a field experience if the proposed experience

- will provide significant support for the cooperating organization with less focus on new learning;
- meets all the criteria for an academic experience but does not meet the criteria for internship.

Students should register for an internship if the proposed experience

- will primarily increase the student's knowledge, while benefiting the cooperating organization;
- meets all criteria developed for a certain department's internship (see website for specific internship criteria);
- will include training or mentoring in new skills and knowledge.

For more information regarding field experiences or internships, contact your faculty advisor or the Coordinator of Applied Learning.

Independent Studies

Registration form: Special Course Registration Form

Students may pursue independent studies to investigate a topic or subject area of particular interest to the student. Students who most benefit from independent studies are mature, self-disciplined, and highly motivated. Students must have specific objectives clearly defined for their independent study and work with a chosen faculty member, who will serve as a consultant and evaluator. Independent studies are only available to students in good academic standing who have a 3.0 cumulative grade point average in the previous session of enrollment. Students will receive a letter grade for the course.

Teaching and Research Assistantships

Registration form: Special Course Registration Form

With approval from the instructor, students may serve as teaching or research assistants for a course. As teaching assistants, students assist instructors in classroom activities, student training, or material preparation for a course in which they have particularly strong skills or experience. Students are eligible to receive some credit for these experiences, but no more than the credit value of the course. As research assistants, students perform library, laboratory, or survey research under the direction of a faculty member on an issue, topic, or project that the faculty member is investigating. Students receive letter grades for their work. Only students in good academic standing may serve as teaching or research assistants.

Senior Capstones & Senior Theses

Registration form: Special Course Registration Form

All Northland students must complete a senior capstone or senior thesis that demonstrates the composite knowledge and skills that they have acquired and developed through their collegiate studies. To fulfill this requirement, students work with faculty in their major fields of study (or take a multi-disciplinary approach) to design a project that reflects senior-level work. Projects vary across disciplines and may include in-depth research or writing and presenting a paper similar to a graduate-level thesis. Public presentations in all disciplines are encouraged so students can share their knowledge with others.

Faculty members provide guidance for and assessment of capstones and theses. Some departments offer a senior capstone or thesis class, while others require students to register independently for a capstone or thesis using the Special Course Registration Form. See the listing of courses or your faculty advisor for more information regarding capstone and thesis options.

Arranged Courses

Registration form: Arranged Course Form

An arranged course is one that appears in the Northland College catalog; however, it is being provided to a student on an individual basis due to mitigating circumstances. An arranged course is allowed only in the rare instances when a class is required for graduation but has not fit into the student's course schedule or is no longer offered. An arranged course may not be used to meet a liberal education requirement or general elective. Students must be in good academic standing and must provide a rationale for the request.

Awards and Honors

Northland College presents awards and honors to students in recognition of academic merit and achievement. Many of these accomplishments are announced at the Honors Day Convocation held the first week of April. Awards and honors are listed below.

Dean's List

The Dean's List is computed at the conclusion of the fall and winter semesters. Full-time students (students who complete 12 or more credits during each of the fall and winter sessions) with letter grades in at least 12 credits and who earn a 3.5 grade point average with no grade less than C and no incomplete grades earn this honor.

Major Merit Awards

Major merit awards, such as the Elementary Education Program Award and Native American Studies Award for Academic Excellence, are awarded to seniors upon nomination by the program faculty members of the major. Eligibility for nomination is based on a minimum grade point average of 3.0 and significant contributions made to the major above and beyond academic contributions.

Other Awards

Several other awards are conferred upon students on the basis of academic merit. Monetary awards often accompany these recognitions. In some cases, a check is presented at the Honors Day Convocation. In other instances, the award is applied to the following year's tuition.

Graduating with Honors

To be eligible to graduate with honors, students must earn a minimum of 48 letter-graded credits at Northland and have been enrolled at Northland College during their junior and senior years. The minimum requirements for the Bachelor of Arts or Bachelor of Science degree must be successfully fulfilled as stated in the student's assigned program catalog. Students will graduate with honors if they have attained an overall grade point average of 3.50 or higher. Students who earn a cumulative grade point average from 3.50 to 3.69 will graduate Cum Laude (with honor); students who earn a grade point average from 3.70 to 3.89 will graduate Magna Cum Laude (with great honor); and students who earn a grade point average of 3.90 or higher will graduate Summa Cum Laude (with highest honor). For purposes of the commencement program, honors are determined at the end of the winter semester. For purposes of the final transcript, honors are determined at degree completion.

Honor Societies

Alpha Chi Honor Society

Alpha Chi is a co-educational society whose purpose is to promote academic excellence and exemplary character among college and university students and to honor those who achieve such distinction. Its name derives from the initial letters of the Greek words "aletheia", meaning truth, and "xarakter", meaning character. As a general honor society, Alpha Chi admits to membership students from all academic disciplines.

Membership in Alpha Chi recognizes previous accomplishments and provides opportunity for continued growth and service. It seeks above all else to serve the needs of the students who comprise its membership. As a phrase from its constitution suggests, Alpha Chi seeks to find ways to assist its members in making scholarship effective for good.

Alpha Chi is opposed to bigotry, narrowness, and distinctions between people on any basis. Alpha Chi seeks to promote the genuine personal worth of each individual.

Psi Chi Honor Society in Psychology

Psi Chi, the National Honor Society in Psychology, was founded in 1929 for the purposes of encouraging, stimulating, and maintaining excellence in scholarship and advancing the science of psychology. These aims are summarized in the two Greek words "psyche", meaning the mind and its enrichment, and "cheires", meaning research and fellowship. Membership is open to undergraduate men and women who are making the study of psychology one of their major interests and who meet the society's qualifications of leadership and excellence in their scientific studies.

Academic Calendar

4-4-1 Calendar

The 4-4-1 Calendar - A unique element in Northland's academic program is its calendar. The summer session is 12 weeks in length. The fall and winter semesters are each 15 weeks in length. The spring session is 4 weeks in length.

Summer allows for a variety of offerings including a 5-week course session as well as extended time for field experiences and internships. Fall and winter allow time for maturation of ideas in a program of varied courses. Spring provides an opportunity for concentration through seminars, field experiences, travel abroad, independent study, and internships.

Summer Session 2015-16 (12 Weeks)

Residence halls open (8 am)	June 6
First day of classes, Monday	June 8
Last day to add 5-week courses (4 pm)	June 9
Last day to drop 5-week courses without record (4 pm)	June 9
Deadline for Fall 2014-15 incomplete grades	June 15
Last day to withdraw from 5-week courses (4 pm)	June 19

Last day to add 12-week courses (4 pm)	June 19
Last day to drop 12-week courses without record (4 pm)	June 19
Independence Day Observed (no classes)	July 3
Last day of 5-week courses	July 10
*Residence halls close (12 pm)	July 11
Grades due for 5-week courses (4 pm)	July 13
Last day to withdraw from 12-week courses (4 pm)	July 31
Last day of session	August 28
Grades due (4 pm)	August 31

*Information will be provided to students who require housing for the full 12 week summer session

Fall Semester 2015-16 (15 Weeks)

Residence halls open for returning students (8 am)	September 5
Labor Day (no classes)	September 7
Last day to add courses online	September 8
First day of classes (Wednesday)	September 9
Last day to add courses (4 pm)	September 18
Last day to drop courses without record (4 pm)	September 18
Due date for Winter 2014-15 incomplete grades	October 19
Mid-Session Reading Day (No classes)	October 19
Mid-session grades due (4 pm)	October 28
Last day to withdraw from courses (4 pm)	November 6
Registration begins for Winter-Spring 2015-16	November 9
Due date for Spring 2014-15 incomplete grades	November 23
Thanksgiving break begins	November 24
Classes resume	November 30
Last day of classes/session	December 18
Winter break begins	December 19
Residence halls close (12 pm)	December 19
Final grades due (4 pm)	December 21

Winter Semester 2015-16 (15 Weeks)

Residence halls open for returning students (8 am)	January 9
Last day to add courses online	January 12
First day of classes (Wednesday)	January 13
Martin Luther King Jr. Day (no classes)	January 18
Last day to add courses with faculty approval (4 pm)	January 22
Last day to drop courses without record (4 pm)	January 22
Due date for Summer 2015-16 incomplete grades	February 29
Mid-session break begins	March 8
Mid-session grades due (4 pm)	March 9
Classes resume Monday	March 14
Last day to withdraw from courses (4 pm)	March 18
Registration begins for Summer-Fall 2016-17	March 21
Good Friday (no classes)Honors Day (no classes noon to 5 pm)	March 25
Honors Day (no classes noon to 5 pm)	April 7
Last day of classes/session	April 22
Inter-Session break begins	April 23
Final grades due (4 pm)	April 25

Spring Session 2015-16 (4 Weeks)

First day of classes, Monday	May 2
Last day to add courses with faculty approval (4 pm)	May 6
Last day to drop courses without record (4 pm)	May 6
Last day to withdraw from courses (4 pm)	May 13
Last day of classes/session	May 27
Commencement	May 28
Residence halls close for non-graduates (12 pm)	May 28
Residence halls close for graduates (12 pm)	May 29
Memorial Day observed	May 30
Grades due (4 pm)	May 31