LPN-BSN PROGRAM

LPN-BSN Program

Licensed Practical Nurse (LPN) students have the opportunity to challenge five specific courses in Nursing by successfully completing examinations from National League for Nursing (NLN) Mobility Examinations. The NLN Mobility Examinations include: Principles of Nursing, Nutrition, Obstetrics, Pediatrics, and Psychiatric/Mental Health. These examinations are used to facilitate the LPN to RN transition.

For details and enrollment information, contact the Chair of the Undergraduate Nursing Department.

License to Practice

Candidates for a license to practice in the health field are required to have "good moral character." The Pennsylvania State Board of Nursing takes into consideration, when deciding on the applications for registration and a license to practice under their jurisdiction, whether candidates have been convicted of any felony or misdemeanor. Candidates are referred to the regulations specified in the Professional Nurse Law (P.L. 317, No. 69).

BIO. BIOLOGY

BIO-105. THE BIOLOGICAL WORLD
Credits: 3

This course presents concepts and modern ideas pertaining to the natural world and the life sciences. Each semester, a selected topic will be addressed and explored from an investigative set of perspectives. While the scientific method will be emphasized in each offering, the range of topics, identified as a subtitle in the course offering data, will include, for example, 1) Genetics, Evolution, and Ecology: Implications for a Changing Society, 2) Human Biology, 3) Contemporary Issues in the Life Sciences, and others. This course is intended for students who are not majoring in science, engineering, pre-pharmacy, and nursing, or pursuing B.S. programs in mathematics or computer science. Fall semesters: Human Biology—two hours of lecture and two hours of laboratory per week. Dissections of specimens may be required in the laboratory component. Spring semesters: Contemporary Issues in the Life Sciences—three hours of lecture each week.
Click here for course fee.

BIO-113. MICROBIOLOGY
Credits: 4

This course presents the basic principles of bacteriology and the relationship of micro-organisms to disease and its prevention, control, and treatment. It considers the effects of microbes within the body and the body’s reaction to them. Lecture, three hours per week; laboratory, three hours per week. Offered every spring semester.
Click here for course fee.

Pre-Requisites
[[BIO-115]] or permission of the instructor.

BIO-115. ANATOMY & PHYSIOLOGY I
Credits: 4

Terms Offered: Fall

This course provides a general study of the human body, its structure and normal function. It provides an appreciation of the complex nature of the human body with relation to the promotion of a healthy organism. Dissections of specimens are required in the laboratory portion of these courses. Lecture, three hours per week; laboratory, three hours per week.
Click here for course fee.

BIO-116. ANATOMY & PHYSIOLOGY II
Credits: 4

Terms Offered: Spring

This course is a continuation of [[BIO-115]] and provides a general study of the human body, its structure and normal function. It provides an appreciation of the complex nature of the human body with relation to the promotion of a healthy organism. Dissections of specimens are required in the laboratory portion of these courses. Lecture, three hours per week; laboratory, three hours per week.
Click here for course fee.

Pre-Requisites
[[BIO-115]] or permission of instructor.

BIO-121. PRINCIPLES OF MODERN BIOLOGY I
Credits: 4

Terms Offered: Fall

An introduction to concepts of modern biology for students majoring in biology and other sciences. Topics covered include the origin of life, basic biochemistry, cell structure and function, energetics, reproduction and heredity, molecular genetics, and evolution. Four hours of lecture and three hours of laboratory per week. Offered every fall semester. Required of all Biology majors.
Click here for course fee.

Co-Requisites
[[CHM-115]]

BIO-122. PRINCIPLES OF MODERN BIOLOGY II
Credits: 4

Terms Offered: Spring

An introduction to biological diversity and mammalian structure and function for science majors, usually taken as a continuation of [[BIO-121]]. Topics include organismal classification, a survey of biological diversity (including characteristics, ecology, phylogenetic relationships, and economic and biomedical uses) of microbes, plants, and animals, and an overview of the mammalian body addressing the form and function of key organ systems. Dissections of specimens are required in the laboratory portion of this course. Four hours of lecture and three hours of laboratory per week. Offered every spring semester. Required of all Biology majors.
Click here for course fee.

BIO-198. TOPICS
Credits: 1-3

A study of topics of special interest not extensively treated in regularly offered courses.
Click here for course fee.

Pre-Requisites
Will vary according to the specific topics course.
BIO-225. POPULATION AND EVOLUTIONARY BIOLOGY
Credits: 4
Terms Offered: Fall
This course emphasizes the patterns and processes of evolutionary change in living systems in an ecological context. It reviews the basic characteristics and dynamics of populations and the relevance of population ecology and population genetics to the evolution of species. Human evolutions, sociobiology, and other controversial issues are also covered. Laboratory exercises emphasize an experimental approach to more in-depth study of specific topics covered in lecture. Four hours of lecture and three hours of laboratory per week. Offered every fall semester. Required of all Biology majors.
Pre-Requisites
[[BIO-121]] and [[BIO-122]].

BIO-226. CELLULAR AND MOLECULAR BIOLOGY
Credits: 4
Terms Offered: Spring
Fees:
Cell structure in relation to function. Biochemistry and physiology of animal, plant, and bacterial cells and their viruses are presented in a molecular biology context. Cell division and development are examined. Four hours of lecture and three hours of laboratory per week. Offered every spring semester. Required of all Biology majors.
Pre-Requisites
[[BIO-121]] and [[BIO-122]].

BIO-254. SUPERLAB
Credits: 3
Superlab is a research-oriented course in which students carry out laboratory and field-based investigations into research areas such as ecotoxicology, plant physiology, ecology, phylogenetics, molecular biology, and cancer biology. In this course, students have one hour of classroom instruction per week during the regular semester followed by ten days (over a period of two weeks) of intensive laboratory work after the end of the semester. During that second phase of the course, students design and implement experiments and carry out research discussed during the first phase with the aid of their instructors. Offered each year.
Pre-Requisites
[[BIO-225]], [[BIO-226]] or [[BIO-226]] as co-requisite.

BIO-298. TOPICS
Credits: 1-3
A study of topics of special interest not extensively treated in regularly offered courses.
Pre-Requisites
Will vary according to the specific topics course.

BIO-306. INVERTEBRATE BIOLOGY
Credits: 4
This course is a study of the major invertebrate phyla with respect to their taxonomy, evolution, morphology, physiology, and ecology. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.
Pre-Requisites
[[BIO-121]] - [[BIO-122]], [[BIO-225]] - [[BIO-226]], or permission of the instructor.

BIO-311. COMPARATIVE PHYSIOLOGY
Credits: 4
Comparative Physiology encompasses the study of organ functions and organ system functions in different animal groups. Emphasis is on the systemic physiology of vertebrate animals. Three hours of lecture and three hours of laboratory per week. Offered every spring semester. Offered in alternate years.
Pre-Requisites
[[BIO-121]] - [[BIO-122]], [[BIO-225]] - [[BIO-226]], or permission of the instructor.

BIO-312. PARASITOLOGY
Credits: 4
Parasitology is the study of organisms that live on or within other organisms and the relationship of these organisms to their hosts. This course deals with the common parasites that infect humans and other animals. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.
Pre-Requisites
[[BIO-121]] - [[BIO-122]], [[BIO-225]] - [[BIO-226]], or permission of the instructor.

BIO-314. COMPARATIVE VERTEBRATE ANATOMY
Credits: 4
This course deals with the evolution and anatomy of the organ systems of vertebrates. Lectures survey the comparative anatomy of the vertebrate classes. Laboratory dissections include the lamprey, shark, mud puppy, and cat in detail. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.
Pre-Requisites
[[BIO-121]] - [[BIO-122]], [[BIO-225]].
BIO-321. MAMMALIAN PHYSIOLOGY  
Credits: 4  
This course examines the function of mammalian systems with regard to homeostasis, metabolism, growth and reproduction. Normal physiological processes as well as some pathophysiological situations are covered. While the emphasis is on human physiology, other mammalian systems are discussed to demonstrate physiological adaptability to various environmental situations. Laboratory exercises include physiological experimentation in living systems and in computer simulations. Three hours of lecture and three hours of laboratory per week. Offered in alternate years. This course satisfies the requirement for a course with an emphasis in quantitative biology.  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-226]], or permission of the instructor.  

BIO-323. FUNCTIONAL HISTOLOGY  
Credits: 4  
This course emphasizes the microscopic examination of mammalian tissues from morphological and physiological perspectives. Reference is made to organ embryogenesis to support the understanding of organ form and function. Tissue preparation for histological examination is included. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-225]]-[[BIO-226]], or permission of the instructor.  

BIO-324. MOLECULAR BIOLOGY  
Credits: 4  
Terms Offered: Spring  
This course introduces students to modern concepts and techniques in molecular biology through a genuine research experience in using cell and molecular biology to learn about a fundamental problem in biology. Rather than following a set series of lectures, we study a problem and see where it leads us. We use the information given in lectures and reading assignments to solve research problems and, in the process, learn a lot of molecular biology. Offered every spring.  
Click here for course fee.  

Pre-Requisites  
[[BIO-225]]; [[BIO-226]]; [[CHM-231]]-[[CHM-232]].  

BIO-325. ENDOCRINOLOGY  
Credits: 4  
This course focuses on the structure, biochemistry, and function of mammalian hormones and endocrine glands. Avian, amphibian, and invertebrate hormones are also discussed, where relevant. Clinical pathologies resulting from excess or insufficient hormones are discussed, as this is essential to mastering an understanding of Endocrinology. Laboratory exercises include experimentation in living systems and computer simulations. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-225]]; [[BIO-226]], or permission of instructor.  

BIO-326. IMMUNOLOGY AND IMMUNOCHEMISTRY  
Credits: 4  
This course is concerned with the biological mechanisms and chemistry of reactants and mediators associated with natural and acquired states of immunity, tissue and blood serum responses to infection and immunization. Related pathophysiological alterations of hypersensitivity phenomena in vertebrate animals and man are also discussed. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-225]]; [[BIO-226]], or permission of the instructor.  

BIO-327. MEDICAL MICROBIOLOGY  
Credits: 4  
Medical Microbiology provides a professional level introduction to microbiology that is focused on application of microbiology to the study of infectious disease etiology and epidemiology. The laboratory covers techniques used in isolation and identification of micro-organisms. Three hours of lecture and three hours of laboratory per week. Cross-listed with [IPHA-327].  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[CHM-231]]-[[CHM-232]].  

BIO-328. DEVELOPMENTAL BIOLOGY  
Credits: 4  
A course dealing with the principles of animal development from descriptive, experimental, and evolutionary perspectives. Laboratory work includes both descriptive and experimental embryology, including molecular techniques. Three hours of lecture and three hours of laboratory per week. Offered in alternate years.  
Click here for course fee.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-225]]; [[BIO-226]], or permission of the instructor.  

BIO-329. VIROLOGY  
Credits: 3  
Virology provides an introduction to the biology of animal viruses. Description of viral molecular architecture and genome organization is followed by a survey of strategies employed for multiplication and regulation of gene expression. Pathogenesis of viral infections is considered from perspectives of viral reproduction strategies and host defense.  

Pre-Requisites  
[[BIO-121]]; [[BIO-122]]; [[BIO-225]]; [[BIO-226]]; [[CHM-231]]-[[CHM-232]]; [[CHM-233]]-[[CHM-234]].
LPN-BSN Program

BIO-330. INTRODUCTION TO BIOINFORMATICS APPLICATIONS
Credits: 3
Terms Offered: Fall
An introduction to the ways computers are used to make sense of biological information, especially the data generated by the human genome project. Topics covered include databases and data mining, pair-wise and multiple sequence alignment, molecular phylogeny, finding genes in raw DNA sequences, predicting protein and RNA secondary and tertiary structures, generating and analyzing transcriptomic data, rational drug design, metabolic simulation and artificial intelligence. Offered online every fall, with one assignment each week. This course satisfies the requirement for a course with an emphasis in quantitative biology.

Pre-Requisites
[[BIO-225]], [[BIO-226]], [[CHM-231]], [[CHM-232]], or permission of the instructor.

BIO-338. BIOLOGY OF CANCER
Credits: 3
This lecture course is designed to explore the various concepts and mechanisms associated with the origins, elaborations, and future developments in cellular transformation and carcinogenesis. Emphasis is placed on the molecular biology and physiology of these processes; therefore, a solid background in basic biology is required. Oncogenes, tumor suppressor genes, and the disruption of homeostasis are covered in detail, while the medical phenomena typically receive a more general level of coverage.

Pre-Requisites
[[BIO-121]], [[BIO-122]], [[BIO-226]], [[CHM-231]], or permission of the instructor.

BIO-340. CONSERVATION BIOLOGY
Credits: 3
This course covers the major topics of conservation biology including an introduction to biodiversity, threats to biodiversity, and solutions to diminish extinctions and population declines. Lecture: three hours per week. Offered each year.

Pre-Requisites
[[BIO-225]], [[BIO-226]] or permission of the instructor.

BIO-341. FRESHWATER ECOSYSTEMS
Credits: 3
A study of the biological and ecological aspects of streams, lakes, and wetlands from a watershed perspective. An initial introduction to physical, chemical, and geological principles of limnology is followed by a focus on freshwater biology. Laboratories include field-based watershed investigations and lake management assessments using geographic information systems techniques. Two hours of lecture and three hours of laboratory per week. Offered in alternate years. Cross-listed with [[EES-341]].

Pre-Requisites
[[EES-211]] or [[EE-240]] or permission of the instructor.

BIO-342. THE ARCHOSAURS: BIRDS, DINOSAURS, AND CROCODILIANS
Credits: 4
An examination of the biology of the Archosaurs. Major topics include evolutionary history, morphology, physiology, behavior, ecology, and conservation of archosaurs. Laboratory is largely field-based with an emphasis on identifying local fauna and population estimation methods. Laboratory also includes dissection, histology, and a field trip to a museum. Offered in alternate years.

Pre-Requisites
[[BIO-225]] or permission of the instructor.

BIO-343. MARINE ECOLOGY
Credits: 3
An examination of the biology of marine life within the context of modern ecological principles. The structure and physiology of marine organisms are studied from the perspectives of adaptation to the ocean as habitat, biological productivity, and interspecific relationships. Emphasis is placed on life in intertidal zones, estuaries, surface waters, and the deep sea. Two hours of lecture and three hours of laboratory per week. Offered in alternate years. Cross-listed with [[EES-343]].

Pre-Requisites
[[EES-230]] and [[BIO-121]]-[[BIO-122]]. Students must have formal course experiences in oceanography and biology at the science major level or have completed their sophomore year as a biology major.

BIO-344. ECOLOGY
Credits: 4
An examination of contemporary ecological thinking as it pertains to the interrelationships of organisms and their environments. Interactions at the population and community level are emphasized. Three hours of lecture and three hours of laboratory per week. Offered in alternate years. Cross-listed with [[EES-344]]. This course satisfies the requirement for a course with an emphasis in quantitative biology.

Pre-Requisites
[[BIO-121]]-[[BIO-122]] or permission of the instructor.

BIO-345. GENETICS
Credits: 4
This course presents a detailed treatment of genetics beyond the introductory level in the areas of both transmission and molecular genetics. It includes discussion of the role of genetics in such areas as developmental medicine. Three hours of lecture and three hours of lab per week. Offered every fall semester.

Pre-Requisites
[[BIO-121]]-[[BIO-122]] or permission of the instructor.
BIO-346. ANIMAL BEHAVIOR  
Credits: 4  
A course emphasizing behavior as the response of animals to physical and social environmental change. It covers the processes that determine when changes in behavior occur and what form the changes take. Laboratories, using local fauna, demonstrate principles discussed in lecture. Three hours of lecture and three hours of laboratory per week. Offered in alternate years. This course satisfies the requirement for a course with an emphasis in quantitative biology.  
Click here for course fee.  
Pre-Requisites  
[[BIO-121]], [[BIO-122]], [[BIO-225]], [[BIO-226]], or permission of the instructor.  

BIO-347. BIOSTATISTICS AND EXPERIMENTAL DESIGN  
Credits: 4  
This course reviews the statistical paradigms and techniques involved in analyzing biological phenomena. Frequentist and Bayesian methods are employed when appropriate with an emphasis on applied statistics and experimental design. Laboratory exercises include designing, analyzing, and communicating experiments. Computation and computer coding is employed in laboratory exercises. Offered in alternate years.  
Click here for course fee.  
Pre-Requisites  
[[BIO-225]], [[MTH-150]], or permission of the instructor.  

BIO-348. FIELD ZOOLOGY  
Credits: 3  
The goals of this summer course are to introduce field methods of zoology and increase familiarity with Pennsylvania's animals. Taxa covered include turtles, snakes, birds, fish, arthropods, and mammals. Topics covered include conservation issues, population estimation, and sampling methods. Time distributed between lecture, lab, and fieldwork. Offered annually.  
Click here for course fee.  
Pre-Requisites  
[[BIO-225]], [[BIO-226]], or permission of the instructor.  

BIO-352. PATHOPHYSIOLOGY  
Credits: 4  
Pathophysiology provides a series of lectures, exercises, and problem-solving sessions integrating the concepts of functional anatomy with human disease. Problem-based learning is encouraged by reviewing illustrative clinical cases and using interactive audio-visual media. Offered in alternate years.  
Click here for course fee.  
Pre-Requisites  
[[BIO-225]], [[BIO-226]], or permission of the instructor.  

BIO-361. PLANT FORM AND FUNCTION  
Credits: 4  
An introduction to the morphology, anatomy, cytology, and physiology of vascular plants. Structural and functional aspects of plants are interpreted in relation to each other and within ecological and evolutionary contexts. Offered in a workshop format of two three-hour sessions per week. Offered every other fall semester.  
Click here for course fee.  
Pre-Requisites  
[[BIO-121]], [[BIO-122]], [[BIO-225]], [[BIO-226]], or permission of the instructor.  

BIO-362. PLANT DIVERSITY  
Credits: 4  
A comprehensive survey of algae, bryophytes, and vascular plants emphasizing their structure, reproductive biology, natural history, evolution, and importance to humans. Offered in a workshop format of two three-hour sessions per week. Offered every other fall semester.  
Click here for course fee.  
Pre-Requisites  
[[BIO-121]], [[BIO-122]], [[BIO-225]], [[BIO-226]], or permission of the instructor.  

BIO-366. FIELD BOTANY  
Credits: 3  
A specialized summertime field course that emphasizes a taxonomic, phylogenetic, and ecological survey of vascular plants indigenous to Northeastern Pennsylvania. Course includes field trips to a diverse array of habitats in Northeastern Pennsylvania. Cross-listed with [[EES-366]]. Offered in alternate years.  
Click here for course fee.  
Pre-Requisites  
[[BIO-121]], [[BIO-122]] or permission of the instructor.  

BIO-368. MEDICAL BOTANY  
Credits: 3  
A specialized summertime course that provides a scientifically based overview of the ways in which plants affect human health. Topics include cultural and historical perspectives of plants and medicine, plants that cause human ailments, plants used to treat human ailments, and psychoactive plants. Two hours of lecture per day for five weeks. Offered in alternate years.  
Click here for course fee.  
Pre-Requisites  
[[BIO-121]], [[BIO-122]], [[BIO-225]], [[CHM-231]], [[CHM-232]], or permission of the instructor.
BIO-369. PLANT PHYSIOLOGY
Credits: 4
This course introduces students to modern concepts and techniques in plant physiology through a genuine research experience using the techniques of plant physiology to learn about a problem in plant biology. Rather than following a set series of lectures, we study a problem and see where it leads us. We use the information given in lectures and reading assignments to solve research problems and, in the process, learn a lot of plant physiology. Offered in alternate years.
Click here for course fee.
Pre-Requisites
[[BIO-225]]- [[BIO-226]], [[CHM-231]]- [[CHM-232]], or permission of the instructor.

BIO-391. SENIOR RESEARCH I
Credits: 1
Terms Offered: Fall
The student pursues independent research as a member of a team of senior biology majors. Each team is responsible for the identification of an original research problem, a thorough literature review of the problem, a detailed prospectus prepared in the format of a grant proposal, and formal oral presentations. Senior research is required of all biology majors seeking a four-year degree in Biology. Open only to senior Biology majors.
Click here for course fee.
Pre-Requisites
Biology major senior standing

BIO-392. SENIOR RESEARCH II
Credits: 2
Terms Offered: Spring
A continuation of [[BIO-391]]. The student pursues independent research as a member of a team of senior biology majors. Each team is responsible for the execution of their research project, a formal oral presentation, a poster, and a final manuscript prepared in standard journal format. Senior research is required of all biology majors seeking a four-year degree in Biology. Open only to senior Biology majors, or with permission of instructor.
Click here for course fee.
Pre-Requisites
Biology major senior standing, or with permission of instructor.

BIO-394. BIOLOGICAL FIELD STUDY
Credits: 1-3
Pre-Requisites
[[BIO-121]]; [[BIO-122]] or permission of the instructor.

BIO-397. PROFESSIONAL PREPARATION TECHNIQUES
Credits: 2
Professional Preparation Techniques introduces Biology majors to Biology as a profession. Students learn how to read, write, and analyze research papers and how to make oral presentations and posters using electronic and paper-based supplements. Career development issues, including effective presentation of credentials, are also addressed. Offered every fall and every spring semester.
Pre-Requisites
Junior-level standing, or permission of the instructor.

BIO-398. TOPICS
Credits: 1-3
A study of topics of special interest not extensively treated in regularly offered courses.
Click here for course fee.
Pre-Requisites
Will vary according to the specific topics course.

BIO-399. COOPERATIVE EDUCATION
Credits: 1-6
Professional cooperative education placement in a private or public organization related to the student’s academic objectives and career goals. In addition to their work experience, students are required to submit weekly reaction papers and an academic project to a Faculty Coordinator in the student’s discipline. See the Cooperative Education section of this bulletin for placement procedures. Requirements: Sophomore standing, 2.0 minimum cumulative GPA, consent of the academic advisor, and approval of placement by the department chairperson.

PSY. PSYCHOLOGY

PSY-101. GENERAL PSYCHOLOGY
Credits: 3
An introduction to the field of psychology with emphasis on objective and systematic methods of inquiry. Extensive survey of major psychological topics including: biological basis of behavior, sensory systems, learning, cognition, emotions, consciousness, development, stress, personality, social factors and mental health.

PSY-200. STATISTICS
Credits: 4
An introduction to the use of statistical procedures (by hand and with SPSS) in the analysis of psychological data. Topics include descriptive statistics and inferential statistics. Techniques such as t-tests, ANOVA, correlation and regression will be used for hypothesis testing.
Pre-Requisites
[[PSY-101]] and Math competency (MTH 101 or higher).

PSY-201. APPLIED STATISTICS AND RESEARCH
Credits: 4
An introduction to how psychological research methods and statistics are used in academic journals and the popular media. The following topics will be discussed: scientific method, research methods used to gather evidence, descriptive statistics and hypothesis testing. Students will be asked to critically review and evaluate research findings.
Pre-Requisites
[[PSY-101]] and Math competency (MTH 101 or higher).

PSY-221. DEVELOPMENTAL PSYCHOLOGY
Credits: 3
The course provides a general view of human growth and development from conception through the life span. Physical, cognitive, personal, and social development of the various stages of life will be presented. Discussions will include issues such as the influence of heredity versus environment and how these issues can be studied using various developmental research techniques.
Pre-Requisites
[[PSY-101]].
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSY-222</td>
<td>ADOLESCENT PSYCHOLOGY</td>
<td>3</td>
<td>This course is designed as a study of the adolescent stage of life. Emphasis will be placed on the following areas of development: physical; emotional; cognitive; and social.</td>
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<td>Pre-Requisites</td>
<td></td>
<td>[PSY-101].</td>
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<tr>
<td>PSY-242</td>
<td>PERSONALITY</td>
<td>3</td>
<td>An examination of the major theoretical perspectives on personality development and functioning, with additional emphasis on the assessment of personality and research in personality.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101].</td>
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<tr>
<td>PSY-250</td>
<td>APPLIED BEHAVIOR ANALYSIS</td>
<td>3</td>
<td>This course will explore the dynamics and management of human behavior. As such, the course will involve exercises with empirical research, statistics, literature searches and analysis with emphasis on the principles emanating from Operant and Pavlovian conditioning phenomena.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101].</td>
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<tr>
<td>PSY-257</td>
<td>NEUROPSYCHOLOGY</td>
<td>3</td>
<td>A survey of the relationship between nervous system physiology and human behavior with emphasis on neurological disorders, neuropsychological assessment, head injury, cerebral asymmetry, and rehabilitation.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101].</td>
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<tr>
<td>PSY-300</td>
<td>RESEARCH METHODS</td>
<td>4</td>
<td>A lecture and laboratory course designed to familiarize the student with the methods of psychological research. Hands-on experimental participation will give the student direct experience with research design and statistical analyses using SPSS. The student will prepare a formal APA style research proposal to be used for the capstone experience.</td>
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<td>Pre-Requisites</td>
<td></td>
<td>[PSY-101] and [PSY-200]. To be taken by Psychology or Neuroscience majors only, during the junior or senior year.</td>
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<tr>
<td>PSY-301</td>
<td>PSYCHOLOGICAL RESEARCH</td>
<td>3</td>
<td>An introduction to how psychological research methods and statistics are used in academic journals and the popular media. The following topics will be discussed: scientific method, research methods used to gather evidence, descriptive statistics and hypothesis testing. Students will be asked to critically review and evaluate research findings.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101] and [PSY-200]. To be taken by Psychology majors only, during the junior or senior year.</td>
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<tr>
<td>PSY-309</td>
<td>CAREER MENTORING FOR THE SOCIAL SCIENCES</td>
<td>2</td>
<td>This course will offer career guidance for students in the Behavioral and Social Sciences. The course will include topics such as mentoring, networking, résumés and interviewing skills.</td>
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<td>Pre-Requisites</td>
<td></td>
<td>[PSY-101]. Junior standing. Course will be cross-listed with PS and [SOC-309]. Course credits will not count towards minor credits. Open only to majors in the Social and Behavioral Sciences.</td>
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<tr>
<td>PSY-311</td>
<td>BEHAVIORAL NEUROSCIENCE</td>
<td>4</td>
<td>A study of the physiological mechanisms mediating behavior and cognition. Emphasis on the structure and function of the nervous system and the neurophysiological bases of sensory processes, emotion, abnormal behavior, sleep, learning and memory, pain, and drug abuse. Laboratory experience includes brain dissection and psychophysiological techniques employed in human behavioral neuroscience research. Click here for course fees.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101]; junior or senior standing.</td>
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<tr>
<td>PSY-331</td>
<td>COGNITION</td>
<td>3</td>
<td>A survey of human cognitive processes such as attention, pattern recognition, memory, language, and problem solving as well as other selected aspects of human cognition. The course includes historical as well as current perspectives on cognitive issues and emphasis on the research techniques used.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101].</td>
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<td>PSY-333</td>
<td>CRITICAL THINKING IN PSYCHOLOGICAL SCIENCE</td>
<td>3</td>
<td>This course provides an opportunity to learn and practice the basic skills of critical thinking within the context of psychological science. Students will evaluate claims and theories in psychology, generate alternative explanations of psychological findings, identify common fallacies in thinking, construct and evaluate arguments, and learn how to become a more intelligent consumer of information. Additional topics include the interface of politics and the media with science and the dangers of pseudoscience.</td>
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<td>Pre-Requisites</td>
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<td>[PSY-101].</td>
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<tr>
<td>PSY-341</td>
<td>INTRODUCTION TO SOCIAL PSYCHOLOGY</td>
<td>3</td>
<td>An introduction to the study of social behavior from a psychological perspective. Topics include attitude formation and change, conformity, leadership, culture, gender and sexuality, prejudice and discrimination. Cross listed with [SOC-341].</td>
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<tr>
<td></td>
<td>Pre-Requisites</td>
<td></td>
<td>[[ANT-101]], [PSY-101], or [SOC-101].</td>
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</table>
PSY-351. BEHAVIORAL MEDICINE  
**Credits:** 3  
This course provides a survey of the basic theoretical concepts and major issues in Behavioral Medicine. Specifically, this course examines how the areas of health, illness, and medicine can be studied from a psychological perspective. Topics of emphasis include the following: the psychological aspects of wellness and illness; preventive medicine; stress; chronic and terminal diseases (such as cancer and AIDS); and the use of alternative medicine.

**Pre-Requisites**  
[PSY-101].

PSY-352. ABNORMAL BEHAVIOR  
**Credits:** 3  
A general survey of psychological disorders in children and adults with emphasis on symptomatology, etiology, and assessment. Forensic and classification issues are also examined.

**Pre-Requisites**  
[PSY-101], [PSY-242].

PSY-353. CLINICAL METHODS IN PSYCHOLOGY  
**Credits:** 3  
A survey of the clinical methods in psychology including general therapeutic models and specific clinical techniques. Issues of assessment and diagnosis of psychological disorders are examined.

**Pre-Requisites**  
[PSY-101], [PSY-242], [PSY-352].

PSY-354. THE EXCEPTIONAL INDIVIDUAL  
**Credits:** 3  
A study of the psychological, physical, and social challenges and needs of exceptional individuals with an emphasis on etiology, assessment, impact, and educational interventions.

**Pre-Requisites**  
[PSY-101], [PSY-221].

PSY-355. FORENSIC PSYCHOLOGY  
**Credits:** 3  
A survey of the role that psychology has played in the legal system from issues of morality and theories of crime, to eyewitness testimony, the evaluation of criminal suspects, and jury selection. The application of the methods and theories of psychology to the legal system will be emphasized.

**Pre-Requisites**  
[PSY-101]

PSY-356. INDUSTRIAL/ORGANIZATIONAL PSYCHOLOGY  
**Credits:** 3  
A survey of the applied areas of personnel, organizational, human factors, and consumer psychology.

**Pre-Requisites**  
[PSY-101].

PSY-358. PSYCHOLOGICAL TESTS AND MEASURES  
**Credits:** 3  
A survey of the psychometric properties of various instruments and measures of psychological phenomena (especially intelligence and personality). A variety of group and individual tests are studied as to their reliability, validity, and utility.

**Pre-Requisites**  
[PSY-101], [PSY-200].

PSY-359. PSYCHOPHARMACOLOGY  
**Credits:** 3  
A study of the effects and mechanisms of the action of psychoactive drugs on behavior. Focus will be placed on drugs used to treat psychopathological disorders and drugs of abuse. Topics of emphasis include a survey or stimulants, depressants, antipsychotics, antidepressants, psychedelics, and legal drugs, such as caffeine, nicotine, and alcohol.

**Pre-Requisites**  
[PSY-101].

PSY-362. HISTORY OF PSYCHOLOGY  
**Credits:** 3  
A study of the philosophic and scientific roots of contemporary psychology, with emphasis on the applicability of past questions and knowledge to current psychological thought.

**Pre-Requisites**  
[PSY-101].

PSY-399. COOPERATIVE EDUCATION  
**Credits:** 1-3  
Professional cooperative education placement in a private or public organization related to the student’s academic objectives and career goals. In addition to their work experience, students are required to submit weekly reaction papers and an academic project to a Faculty Coordinator in the student’s discipline. (See the Cooperative Education section of this bulletin for placement procedures.)

**Click here for course fees.**

**Pre-Requisites**  
Sophomore standing, minimum 2.0 cumulative GPA, consent of academic advisor, and approval of placement by the department chairperson.

PSY-400. RESEARCH CAPSTONE  
**Credits:** 3  
This course is designed to provide a research-based capstone experience for senior Psychology majors. Students will run an experiment, conduct the appropriate statistical analysis, and present the results formally in an APA manuscript, a poster, and in an oral presentation.

**Click here for course fees.**

**Pre-Requisites**  
[PSY-101], [PSY-200], [PSY-300]; Senior status and departmental permission.
PSY-401. APPLIED CAPSTONE
Credits: 4
This course will offer a professional capstone experience, including a required internship experience. Students will prepare client case presentations based upon their observations during their internship. An internship is required prior to taking PSY 401 (PSY 399) and a second internship is required for this course, which is counted with the four credit requirement.
Click here for course fees.

Pre-Requisites
[PSY-101], [PSY-200], [PSY-301], [PSY-399]; Senior status.

NSG. NURSING

NSG-117. BASIC LIFE SUPPORT RENEWAL
Credits: 1
This hybrid course combines online learning and cognitive evaluation with hands-on skills practice and psychomotor evaluation in accordance with the standards of the American Heart Association's (AHA) Core Curriculum for renewal. Students who successfully complete this course will receive renewal of AHA course completion cards for both Basic Cardiac Life Support for the Health Care Provider and Heartsaver First Aid.
Click here for course fee.

NSG-200. PRINCIPLES OF NORMAL NUTRITION
Credits: 3
An introduction of the basic science of human nutrition: principles of normal nutrition, meal planning, computation of diets, physiological, psychosocial, and social effects of food and its constituents; and some local, national, and international nutrition problems.

Pre-Requisites
[BIO-113], [BIO-115], [BIO-116], [CHM-111], [ENG-101] and [PSY-101], [SOC-101] or [ANT-101]

Co-Requisites
[NSG-214]

NSG-210. PRINCIPLES OF NURSING: INDIVIDUAL, FAMILY, AND COMMUNITY
Credits: 6
This course introduces the student to the profession of nursing. Use of the nursing process is emphasized in meeting the basic human needs of clients within families and their communities. Nursing theory is correlated with clinical practice in the Clinical Nursing Simulation Center and selected clinical agencies. Hours weekly: 4 hours of class and 6 hours of clinical practice.
Click here for course fees.

Pre-Requisites
[NSG-200], [NSG-214]

Co-Requisites
[NSG-211], [NSG-215]

NSG-211. PHYSICAL ASSESSMENT
Credits: 3
This course is designed to facilitate the integration of physical assessment skills as an essential element of the nursing process. The components of physical assessment, including the health history and physical examination, are organized to allow the student to proceed from an assessment of the overall function of a client to the more specific functions of each body system. Requirement: Sophomore standing in the Nursing program and Accelerated Baccalaureate Program for Second Degree Students.

Co-Requisites
[NSG-210], [NSG-215] or [NSG-330]

NSG-213. NURSING CARE OF THE PSYCHIATRIC MENTAL HEALTH CLIENT: INDIVIDUAL, FAMILY, AND COMMUNITY
Credits: 4
The nursing process is utilized in assisting adults and their families within their communities to achieve optimum health and to resolve selected problems in mental health and psychiatric nursing. Nursing theory is correlated with clinical practice in a variety of health care settings. Hours weekly: 2 hours of class, 6 hours of clinical practice.

Pre-Requisites
[NSG-210], [NSG-211], [NSG-215]

Co-Requisites
[NSG-235], [NSG-236], [NSG-342]

NSG-214. PATHOPHYSIOLOGY FOR THE PROFESSIONAL NURSE
Credits: 3
This course focuses on altered cell functioning resulting in deviations from homeostasis. Topics of study include principles of homeostasis and the immune, cardiopulmonary, renal, nervous, gastrointestinal, hematological, musculoskeletal, and endocrine systems. The student’s ability to relate this to the individual’s need for care is emphasized. Pathological alterations in health at the systems level and implications for nursing care are emphasized. Requirement: Sophomore standing in the Nursing program.

Pre-Requisites
[BIO-113], [BIO-116], [ENG-101]
[(PSY-101), [SOC-101] or [ANT-101]]

Co-Requisites
[NSG-200]

NSG-215. PHARMACOTHERAPEUTICS I
Credits: 1
Principles of pharmacology and specific drug groups are explored. An emphasis is placed on pharmacotherapeutics, pharmacokinetics, and pharmacodynamics.

Pre-Requisites
[NSG-200], [NSG-214]

Co-Requisites
[NSG-210], [NSG-211]
NSG-217. BASIC LIFE SUPPORT RENEWAL  
Credits: 1  
This hybrid course combines online learning and cognitive evaluation with hands-on skills practice and psychomotor evaluation in accordance with the standards of the American Heart Association’s (AHA) Core Curriculum for renewal. Students who successfully complete this course will receive renewal of AHA course completion cards for both Basic Cardiac Life Support for the Health Care Provider and Heartsaver First Aid. 
Click here for course fee.

NSG-224. PHARMACOTHERAPEUTICS AND CLINICAL DECISION-MAKING IN NURSING  
Credits: 3  
For Accelerated Bachelors Program students only. This course is designed to assist students to understand the multidisciplinary science of pharmacology based on human systems. Content includes drug classifications, indications, adverse effects and contraindications, age-related variables, dosages, and nursing implications. Using critical thinking skills related to drug therapy, clinical decision-making is developed.

Pre-Requisites  
Acceptance into the Accelerated Bachelors Program. 
[[NSG-211]], [[NSG-330]]

Co-Requisites  
[[NSG-331]], [[NSG-341]]

NSG-235. MEDICAL SURGICAL NURSING I  
Credits: 6  
The nursing process is utilized in assisting adults and their families within their communities to achieve optimum health and managed selected health problems. Nursing theory is correlated with clinical practice in a variety of health care settings.

Pre-Requisites  
[[NSG-210]], [[NSG-211]], [[NSG-215]]

Co-Requisites  
[[NSG-213]], [[NSG-236]], [[NSG-342]]

NSG-236. PHARMACOTHERAPEUTICS II  
Credits: 1  
This course is designed to assist students to understand the multidisciplinary science of pharmacology based on human systems. Content includes drug classification, indications, adverse effects and contraindications, age-related variables, dosages, and nursing implications. Using critical thinking skills related to drug therapy, clinical decision making is developed.

Pre-Requisites  
[[NSG-210]], [[NSG-211]], [[NSG-215]]

Co-Requisites  
[[NSG-213]], [[NSG-235]], [[NSG-342]]

NSG-237. MEDICAL SURGICAL NURSING II  
Credits: 6  
The nursing process is utilized in assisting adults and their families within their communities to achieve optimum health and manage selected health problems. Nursing theory is correlated with clinical practice in a variety of health care settings.

Pre-Requisites  
[[NSG-213]], [[NSG-235]], [[NSG-236]], [[NSG-342]]

Co-Requisites  
[[NSG-241]], [[NSG-238]], [[EES-242]]

NSG-238. PHARMACOTHERAPEUTICS III  
Credits: 1  
This course is designed to assist students to understand the multidisciplinary science of pharmacology based on human systems. Content includes drug classification, indications, adverse effects and contraindications, age-related variables, dosages, and nursing implications. Using critical thinking skills related to drug therapy, clinical decision making is developed.

Pre-Requisites  
[[NSG-213]], [[NSG-235]], [[NSG-236]], [[NSG-342]]

Co-Requisites  
[[NSG-237]], [[NSG-241]], [[EES-242]]

NSG-239. GERONTOLOGICAL NURSING  
Credits: 2  
This course will focus on the nursing management of older adults. Contemporary theories of gerontology, theories of aging, physiological / psychological functioning, impact of developmental changes, illness, and dysfunction will be emphasized. The geriatric patient will be examined at various levels – healthy older adult, older adult at risk, the older adult experiencing acute and chronic illness.

Pre-Requisites  
[[NSG-242]], [[NSG-340]], [[NSG-321]]

Co-Requisites  
[[NSG-325]], [[NSG-345]]

NSG-241. NURSING CARE OF THE CHILD BEARING FAMILY  
Credits: 4  
The nursing process is utilized in childbearing families within their communities to meet their human needs. Nursing theory is correlated with clinical practice in a variety of health care settings. This course is designated for Women’s and Gender Studies (WGS).

Pre-Requisites  
[[NSG-213]], [[NSG-235]], [[NSG-236]], [[NSG-342]]

Co-Requisites  
[[NSG-237]], [[NSG-238]]
NSG-242. NURSING CARE OF THE CHILD REARING
FAMILY
Credits: 4
The nursing process is utilized in assisting families with children within the communities to meet their human needs. Nursing theory is correlated with clinical practice in a variety of health care settings.

Pre-Requisites
[NSG-237], [NSG-238], [NSG-241]
Co-Requisites
[NSG-321], [NSG-340]

NSG-242. POPULATION HEALTH
Credits: 3
This course provides a foundation in population health, including community and population assessment, intervention, and evaluation of culturally diverse and vulnerable populations.

Pre-Requisites
[[NSG-237]], [[NSG-238]], [[NSG-241]], [[EES-242]]
Co-Requisites
[[NSG-242]], [[NSG-340]]

NSG-270. RECENT TRENDS IN CLINICAL NUTRITION
Credits: 3
This elective course is an introduction to diet therapy, with a discussion of the contemporary issues in clinical nutrition. The course deals with popular myths about nutrition and health and substantiates or refutes these claims with research evidence.

Pre-Requisites
[[NSG-200]] or RN status.

NSG-274. DIMENSIONS IN HEALTH AND WELLNESS
Credits: 3
This elective course provides a framework for the exploration of the concepts of holistic health, wellness, and alternative health care modalities through experiential exercises, reading, journaling, and lectures. During the course, the student will assess his or her personal health and wellness status, develop a plan to modify a specified health behavior, implement the plan using a variety of holistic modalities, and evaluate the outcome of the plan. This is a wellness elective appropriate for any student at any level. Lecture, discussion, class participation. No prerequisites. No co-requisites. No fees.

NSG-290. TRANSITION TO BACCALAUREATE NURSING
Credits: 7
This course is designed to facilitate the transition of RN students from other educational routes to baccalaureate education and professional nursing practice. The course focuses on the integration of knowledge, skills, and attitudes in the development of the professional role to enhance quality outcomes for individuals, families, and populations across all healthcare settings and in complex healthcare environments.

NSG-299. NURSING FORUM
Credits: 7
Pre-Requisites
RN status or NCLEX eligibility, [ENG-101]. Co-requisite [NSG-200] or fulfillment of course requirements by means of a challenge exam.

NSG-317. ADVANCED LIFE SUPPORT
Credits: 3
This course covers the essential material for Advanced Cardiac Life Support and Pediatric Advanced Life Support in accordance with the standards of the American Heart Association. Enrolled students are eligible for American Heart Association ACLS and PALS Course Completion Cards at the end of the course.

Pre-Requisites
[[NSG-211]], [[NSG-330]]
Co-Requisites
[[NSG-224]], [[NSG-341]]
NSG-332. NURSING PRACTICE III
Credits: 12
(Accelerated Baccalaureate Program for Second Degree Students) This course prepares the student for professional role development in emerging health care delivery systems. The nursing process is utilized in assisting individuals, families, and communities to meet their health needs. Nursing theory is correlated with clinical practice in a variety of health care settings. Hours weekly: 6 hours of class; 18 hours of clinical practice. 
Click here for course fees.

Pre-Requisites
[[NSG-224]], [[NSG-331]], [[NSG-341]]

Co-Requisites
[[NSG-342]]

NSG-340. ADVANCED CARE CONCEPTS
Credits: 5
The nursing process is used in assisting adults and their families, within their communities, to achieve optimum health and to resolve complex health problems. Hours weekly: 2 hours of class, 12 hours of clinical practice. 
Click here for course fees.

Pre-Requisites
[[NSG-237]], [[NSG-238]], [[NSG-241]], [[EES-242]]

Co-Requisites
[[NSG-242]], [[NSG-321]]

NSG-341. NURSING INFORMATICS
Credits: 3
This course provides information about technology used to communicate, manage information, and support decision making to facilitate the achievement of client healthcare outcomes. The course integrates information related to the areas of nursing science, information management science, and computer science.

Pre-Requisites
[[NSG-242]], [[NSG-321]], [[NSG-340]]

Co-Requisites
[[NSG-239]], [[NSG-325]], [[NSG-345]]

NSG-342. INTRODUCTION TO NURSING RESEARCH
Credits: 3
The research process is examined in this course. Emphasis is placed on studies in nursing that provide a foundation for critical reflection on research reports and application of findings to practice. Designated oral presentation option (OPO). Offered in the fall semester only.

Pre-Requisites
[[NSG-210]], [[NSG-211]], [[NSG-215]], [[MTH-150]]

Co-Requisites
[[NSG-213]], [[NSG-235]], [[NSG-236]]

NSG-345. SENIOR PRACTICUM
Credits: 5
This course prepares the student for professional role development in emerging health care delivery systems. The nursing process is utilized in the care of older adult clients and their families within their communities in a variety of settings. Nursing theory is correlated with clinical practice. Hours weekly: 2 hours of class, 19 hours of clinical practice. 
Click here for course fees.

Pre-Requisites
[[NSG-242]], [[NSG-321]], [[NSG-340]]

Co-Requisites
[[NSG-239]], [[NSG-325]], [[NSG-341]]

NSG-346. CONTEMPORARY ISSUES AND TRENDS IN NURSING
Credits: 3
This seminar course explores current issues and trends in nursing and health care in the RN/BSN curriculum. Designated oral presentation option (OPO).

NSG-347. LEADERSHIP AND MANAGEMENT PRACTICUM
Credits: 3
This course prepares the RN to BSN or RN to MSN student for professional role development in emerging health care delivery systems. The student synthesizes knowledge from previous nursing and supportive courses to manage care in an area of clinical practice consistent with career goals.

NSG-348. BACCALAUREATE CAPSTONE
Credits: 3
This course is intended to integrate learning in the RN to BSN curriculum through the identification of a clinical problem and the review of evidence-based solutions.

NSG-394. NURSING ELECTIVE OR CORE REQUIREMENT
Credits: 3
This elective course focuses on the implementation of the nursing process in the care of vulnerable populations within the community setting through a service learning approach.

NSG-399. COOPERATIVE EDUCATION
Credits: 1-6
Professional cooperative education placement in a private or public organization related to the student's academic objectives and career goals. In addition to their work experience, students are required to submit weekly reaction papers and an academic project to a Faculty Coordinator in the student's discipline. See the Cooperative Education section of this bulletin for placement procedures. Requirements: Sophomore standing; minimum 2.0 cumulative GPA; consent of the academic advisor; and approval of placement by the School dean.