

THE PASSAN SCHOOL OF NURSING

The Passan School of Nursing

Dean: Dr. Deborah A. Zbegner

Chair: Dr. Emily Havrilla

Faculty

Associate Professors: Grandinetti, Havrilla, Hirthler, Lucas, Miskovsky, Sweeney, Victor

Assistant Professors: Burry, Jones, Koronkiewicz

Faculty of Practice: Cheslick, Hauze, Musto, Olengenski

Visting Instructor: Gaydos

Faculty Emeriti: Druffner, Malkemes, Merrigan, Schreiber, Stewart, Zielinski

Director of Clinical Nursing Simulation Center:

Accelerated Baccalaureate Nursing Program Coordinator:Sunday

LPN/BSN Program Coordinator: Pacuska

Student Affairs Coordinator: Drozdis

ACCELERATED BACCALAUREATE PROGRAM

Accelerated Baccalaureate Program for Second Degree Students

This online program admits students who already hold a baccalaureate degree in a discipline other than nursing and have no previous nursing education. Upon successful completion of the program, students are awarded a Bachelor's Degree with a Major in Nursing (BSN). Completion of the requirements for this program prepares a beginning, self-directed practitioner who is capable of initiating, implementing, and revising nursing care. The curriculum is designed for the adult learner and builds upon earlier educational experiences in the humanities, social studies, and sciences. It is based on the development of the individual and the family within a community.

The curriculum flows from both the University's and the School's philosophies and addresses the nursing needs of the community and the nation. It provides opportunity for individuals with changing career aspirations, and it is designed to prepare the learner for a variety of roles in professional practice. Following completion of the prerequisite courses, the program can be completed in three full-time semesters.

Graduates are educationally eligible to take the National Council Licensure Examination for Registered Nurses (NCLEX-RN), which must be successfully completed for registration as a professional nurse.

Prerequisites

- Applicants must have received a baccalaureate degree from an accredited institution with a minimum undergraduate GPA of 3.0.
- Students who have graduated from an accredited institution and meet all other admission requirements will be evaluated on a case-by-case basis. Admission is not guaranteed.
- The following courses are required prerequisites:
 - a 3-credit course in Elementary Statistics
 - a 3-credit course in Nutrition
 - two semesters of Anatomy and Physiology, with related laboratory experiences
 - one semester of chemistry, with related laboratory experience
 - one semester of microbiology, with related laboratory experience
 - a minimum grade of 2.5 is required in the sciences. Students will be allowed to repeat a science course one time for a grade less than 2.5. A student who achieves less than a 2.5 in two nurses courses or less than 2.5 in the repeat of the same science course will not be able to progress into the nursing program.
- Applicants whose native language is not English or who hail from non-English-speaking countries must submit satisfactory scores on the TOEFL along with their applications.

- Check with the ABSN Program Coordinator about the aspect of screening/admission into the program.

Length of the Program

- The total number of credits required to complete the Accelerated Baccalaureate Program for Second Degree Students, beyond the pre- and co-requisite requirements, is 48.
- The Accelerated Baccalaureate Program for Second Degree Students can be completed in three full-time semesters.

Academic Progression

Follow the Admission and Progression policy of the Passan School of Nursing.

[[NSG-330]] : Nursing Practice I - Course components: Fundamentals of Nursing & Medical-Surgical I

[[NSG-331]] : Nursing Practice II - Course components: Nursing Care of the Psychiatric Mental Health Client & Medical-Surgical II

[[NSG-332]] : Nursing Practice III - Course components: Care of the Childbearing Family (Obstetrics), Care of the Developing Family (Pediatrics) & Leadership/Population Health Nursing

A student may be required to submit, at any time, a health evaluation by a physician, physician assistant, or nurse practitioner if evident limitations interfere with the student's practice or learning.

Accelerated Baccalaureate Program for Second Degree Students*- Required Courses and Recommended Course Sequence

First Semester	Credits
[[NSG-211]] Physical Assessment	3
[[NSG-330]] Nursing Practice I	12
Total Credits	15

Second Semester	Credits
[[NSG-224]] Pharmacotherapeutics and Decision-Making in Nursing	3
[[NSG-331]] Nursing Practice II	12
[[NSG-341]] Nursing Informatics	3
Total Credits	18

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).

Biology.....	8
Psychology.....	17
Nursing.....	14

Third Semester	
[[NSG-332]] Nursing Practice III	12
[[NSG-342]] Introduction to Nursing Research	3
Total Credits	15

*Clinical Hours will be distributed among Acute, Chronic, and Community Settings

Additional Nursing Expenses and Fees for Accelerated Baccalaureate Students

Item	Semester One	Semester Two	Semester Three
National Student Nurses Association (NSNA)	\$45		
Uniform Scrub Top	\$30 - \$35		
Uniform Scrub Pants	\$25		
Uniform Shoes	\$40 and up		
Stethoscope, penlight, bandage scissors	\$55 - \$85		
Hemostats	\$6		
BP Cuff	\$40		
AHA CPR Certification for Health Care Providers	\$35 and up		
Castle Branch Profile	\$175 and up		
Criminal Record Check	\$40 and up		
PA Child-Abuse-History Clearance	\$10		
Physical, Immunizations, and PPD	\$100 and up*		
Urine for Drug Screen	\$50 and up		

The School of Nursing Faculty reserves the right to revise the Nursing Major requirements as deemed necessary at any time to prepare students for new and emerging roles in nursing.

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 Coordinator of the LPN/BSN program.

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).

Biology.....	8
Psychology.....	17
Nursing.....	14

NURSING

Nursing

Total minimum number of credits required for a major in Nursing leading to the BSN degree — 120.

Accreditation

The baccalaureate degree in nursing/master's degree in nursing/Doctor of Nursing Practice/, and post graduate APRN certificate programs at Wilkes University are accredited by the Commission on Collegiate Nursing Education (www.ccnaccreditation.org).

Philosophy and Curriculum

The practice of professional nursing is a deliberative process of assessing, analyzing, planning, implementing, and evaluating care with clients that promotes and restores health and prevents illness. The baccalaureate program prepares a beginning, self-directed practitioner who is capable of initiating, implementing, and revising nursing care.

Professional nursing is based upon the integration of knowledge from the humanities, the physical and social sciences, and nursing theories and research. The curriculum is based on the development of the individual and the family within a community. The curriculum flows from the philosophy and covers a four-year academic period. It includes integrated nursing courses, electives, and the General Education Curriculum requirements. Due to the cultural diversity of clients, it is suggested that students consider taking a foreign language. Written agreements with the cooperating hospitals and agencies in Northeastern Pennsylvania ensure clinical facilities for the student's practice, which is concurrent with the classroom theory. NOTE: Students are responsible for their own transportation to assigned clinical areas.

In addition, opportunities for learning are provided in the Clinical Nursing Simulation Center, which is equipped with computer-assisted instructional materials and with low fidelity and high fidelity manikins. A simulated clinical environment allows the student to practice the psychomotor skills necessary in nursing practice. A faculty member is available to assist the students.

Undergraduate Nursing Programs

Students majoring in Nursing are required to have completed courses in English (4 units), Social Studies (3 units), Mathematics (2 units, including algebra), and Science (two units, including Biology and Chemistry) during their secondary school program. The preferred criteria for admission are a high school GPA of 3.3 or numeric grade of 87, SAT scores of 510 in both Math and Reading (1020) or an ACT score of 21 for those students who do not take the SAT's. Students who have graduated from an accredited institution and meet all other admission requirements will be evaluated on a case-by-case basis. Admission is not guaranteed. Transfer students or change of major students must meet the required score on the nursing entrance examination prior to admission into the nursing program.

The student of nursing assumes all of the financial obligations listed in the section on fees in this bulletin. Additional expenses incurred in the Nursing Program are listed in the [Undergraduate Nursing Student Handbook](#). A price list for these items follows.

Students must complete the required health and clearance documents and submit all requirements as directed by Castlebranch by June 30th every year of enrollment in clinical nursing courses for the fall semester and by January 5 for the spring semester. Failure to complete requirements by June 30th or January 5 will result in the loss of a clinical seat. Students must contact Lori Drozdis, Student Affairs Coordinator (at lori.drozdis@wilkes.edu or (570) 408-4092) for the required code.

In addition to the required health and clearance documents noted above, any student transferring into the nursing program from another school or from another program or from an undeclared status at Wilkes University must be in good academic standing and must successfully complete the nurse entrance examination before July 1st preceding the start of the entry level clinical nursing course (NSG 210). Students must also meet the technical standards essential to the practice of nursing, as defined in the [Undergraduate Nursing Student Handbook](#) to progress into clinical nursing courses.

Satisfactory clinical performance is an essential component of the Wilkes Nursing program. Students become eligible to progress into clinical nursing courses when they have met the following prerequisite course requirements: nursing majors must earn a 2.5 or better in the required prerequisite sciences (BIO 113, 115-116, CHM 111) and a 2.0 in ENG 101. In order to remain in clinical courses and progress in the nursing curriculum, students must earn a 2.5 or higher in the required co-requisite science (EES 242). Students will be allowed to repeat a science course one time for a grade less than 2.5. A student who achieves less than a 2.5 in two science courses **will not be** able to progress into the nursing program. Students must obtain a cumulative GPA of 2.5 at all times.

In order to progress THROUGH the nursing program, all nursing students must:

- Follow the admission and progression policy of the Passan School of Nursing.

In addition to fulfilling the academic requirements of the University, students majoring in Nursing are required to successfully complete comprehensive examinations and required studies as assigned by the School of Nursing before being eligible to graduate

Nursing Major- Required Courses and Recommended Course Sequence

First Semester

[[BIO-115]] Human Anatomy and Physiology I	4
[[CHM-111]] Fundamentals of Chemistry	4

Nursing

[[ENG-101]] Composition* or	4
[[FYF-101]] First-Year Foundations	3
[[NSG-117]] Basic Life Support elective	1
Total Credits	16

Second Semester

[[BIO-113]] Microbiology	4
[[BIO-116]] Human Anatomy and Physiology II	4
[[PSY-101]] General Psychology* or	3
[[SOC-101]] Intro. to Sociology* or	3
[[ANT-101]] Intro. to Anthropology*	
[[ART-101]], [[MUS-101]], or [[DAN-101]]	3
Total Credits	17

Third Semester

[[NSG-200]] Principles of Normal Nutrition	3
[[MTH-150]] Elementary Statistics**	3
[[NSG-214]] Pathophysiology for Professional Nurses	3
[[CS-115]] Computers & Applications	3
[[ENG-120]] Introduction to Literature & Culture	3
Total Credits	15

Fourth Semester

[[NSG-210]] Principles of Nursing	6
[[NSG-211]] Physical Assessment	3
[[NSG-215]] Pharmacotherapeutics I	
[[HIS-101]] Historical Foundations of the Modern World	3
PSY Elective	3
Total Credits	16

Fifth Semester

[[NSG-213]] Nursing Care of the Psychiatric Mental Health Client	4
[[NSG-235]] Medical Surgical Nursing I	6

[[NSG-236]] Pharmacotherapeutics II	1
[[NSG-342]] Introduction to Nursing Research	3
Total Credits	14

Sixth Semester

[[EES-242]] Environmental Health	3
[[NSG-237]] Medical Surgical Nursing II	6
[[NSG-238]] Pharmacotherapeutics III	1
[[NSG-241]] Nursing Care of Child Bearing Family	4
[[NSG-217]] Basic Life Support elective	1
Total Credits	15

Seventh Semester

[[NSG-340]] Advanced Care Concepts	5
[[NSG-242]] Nursing Care of the Child Rearing Family	4
[[NSG-321]] Population Health	3
[[PHL-101]] or Foreign Language	3
Total Credits	15

Eighth Semester

[[NSG-345]] Senior Practicum	5
[[NSG-239]] Nursing Care Older Adult	2
[[NSG-325]] NCLEX Preparation for Professional Practice	2
[[NSG-341]] Nursing Informatics	3
Total Credits	12

* Please note: Students must take [[ENG-101]] and both [[PSY-101]] and [[SOC-101]] or [[ANT-101]] during their freshman year.

**Please note: [[MTH-150]] is required and prerequisite to [[NSG-342]].

Additional Nursing Expenses and Fees for Traditional Baccalaureate Students

Item	Freshman	Sophomore	Junior	Senior
Capstone Project				
National Student	\$45	\$45	\$45	\$45

Nurses Association (NSNA)				
Uniform Scrub Top		\$30 - \$35		
Uniform Scrub Pants		\$25		
Uniform Shoes		\$40 and up		
Stethoscope, penlight, bandage scissors		\$55 - \$85		
Hemostats		\$6		
BP Cuff		\$40		
AHA CPR Certification for Health Care Providers		\$35 and up		\$35 and up
Castle Branch Profile		\$175 and up	\$175 and up	\$175 and up
Criminal Record Check		\$40 and up	\$40 and up	\$40 and up
PA Child-Abuse-History Clearance		\$10		
Physical, Immunizations, and PPD		\$100 and up*	\$100 and up*	\$100 and up*
Urine for Drug Screen		\$50 and up	\$50 and up	\$50 and up
<i>*May be covered by the student's medical insurance</i>				
<i>**Will be billed by the Financial Management Office.</i>				

The School of Nursing Faculty reserves the right to revise the Nursing Major requirements as deemed necessary at any time to prepare students for new and emerging roles in nursing.

License to Practice

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Nursing..... 14

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

Course Descriptions

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 alternations 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 [[PHA-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]].

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]], [[MTH-150]], 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]]- [[CHM-232]].

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]].

[Click here for course fee.](#)

Pre-Requisites

[[GEO-211]] or [[EES-240]] or [[BIO-121]]- [[BIO-122]] or consent of the instructor.

BIO-342. THE ARCHOSAURS: BIRDS, DINOSAURS, AND CROCODYLIANS**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.

[Click here for course fee.](#)

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]].

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

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.

[Click here for course fee.](#)

Pre-Requisites

[[BIO-121]]- [[BIO-122]], [[BIO-225]]- [[BIO-226]], 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.

Course Descriptions

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-363. HEMP BIOLOGY AND ANALYSIS

Credits: 4

This course is an introduction to hemp biology and analysis. Topics include an overview of hemp, hemp phylogeny, subspecies, plant structure, development, reproduction, water uptake, transport, uses for hemp, hemp pathogens and pests, and ways to improve hemp production using biotechnology.

[Click here for course fee.](#)

Pre-Requisites

Sophomore or pharmacy P-1 standing or instructor permission.

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.

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-395. INDEPENDENT RESEARCH

Credits: 1-3

This course involves independent study and research for advanced students in the field of the major under the direction of a staff member. A research paper at a level significantly beyond a term paper is required; it must also be presented orally at an appropriate off-campus science meeting.

Requirements:

Written approval of the department chairperson is required. Candidates for Independent Research must have a minimum GPA of 3.00 and be of upper class standing.

BIO-396. INDEPENDENT RESEARCH

Credits: 1-3

This course involves independent study and research for advanced students in the field of the major under the direction of a staff member. A research paper at a level significantly beyond a term paper is required; it must also be presented orally at an appropriate off-campus science meeting.

Requirements:

Written approval of the department chairperson is required. Candidates for Independent Research must have a minimum GPA of 3.00 and be of upper class standing.

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.

Course Descriptions

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. Students who successfully complete this course will receive 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

Fees: \$32 for non-nursing majors

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]]

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 online Accelerated Baccalaureate Program for Second Degree Students.

[Click here for course fees.](#)

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]]

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 a 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.](#)

Pre-Requisites

[[NSG-117]]

NSG-224. PHARMACOTHERAPEUTICS AND CLINICAL DECISION-MAKING IN NURSING**Credits:** 3

(Accelerated Bachelors Program online 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**Terms Offered:** Fall

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. Hours weekly: 3 hours of class and 9 hours of clinical practice.

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**Terms Offered:** Spring

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. Hours weekly: 3 hours of class and 9 hours of clinical practice.

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]]

Course Descriptions

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.

[Click here for course fee.](#)

NSG-321. 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-325. PREPARATION FOR PROFESSIONAL PRACTICE

Credits: 2

This course uses a variety of strategies to prepare final semester pre-licensure baccalaureate nursing students for entry into professional nursing practice. Students are assessed for readiness to sit for the NCLEX-RN licensure examination as well as for entry into professional nursing practice in a general health care setting. This course provides students with quantitative analysis of their readiness to pass the NCLEX-RN exam

Pre-Requisites

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

Co-Requisites

[[NSG-239]], [[NSG-345]]

NSG-330. NURSING PRACTICE I

Credits: 12

(Accelerated Baccalaureate Program for Second Degree Students)This online course introduces the student to the profession of nursing. Use of the nursing process is emphasized in meeting the human needs of clients identified as individuals, families, and communities. Nursing theory is correlated with clinical practice during the residency in the Clinical Nursing Simulation Center and selected clinical agencies. 12 hours of clinical practice.

[Click here for course fees.](#)

Co-Requisites

[[NSG-211]]

NSG-331. NURSING PRACTICE II

Credits: 12

(Accelerated Baccalaureate Program for Second Degree Students, online) Building on the foundation of Nursing, the nursing process is used to assist individuals, families, and communities to achieve optimum health and to resolve selected medical, surgical, and mental health problems. Nursing theory is correlated with clinical practice, and is mastered in a variety of settings. Hours weekly: 7 hours of class; 15 hours of clinical practice.

[Click here for course fees.](#)

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, online)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: 3 hours of class, 6 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]]

ABS: [[NSG-211]], [[NSG-330]]

Co-Requisites

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

ABS: [[NSG-224]], [[NSG-331]]

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). Accelerated students to complete in the third semester.

Pre-Requisites

[[NSG-210]], [[NSG-211]], [[NSG-215]], [[MTH-150]]
Accelerated Students [[NSG-224]], [[NSG-331]], [[NSG-341]]

Co-Requisites

[[NSG-213]], [[NSG-235]], [[NSG-236]]
Accelerated Students [[NSG-332]], [[NSG-342]]

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, 9 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]]

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. It is recommended that students take this course at the end of their sophomore or their junior year. Psychology and Neuroscience majors must earn a 2.0 or higher in this course.

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]].

PSY-222. ADOLESCENT PSYCHOLOGY

Credits: 3

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.

Pre-Requisites

[[PSY-101]].

PSY-242. PERSONALITY

Credits: 3

An examination of the major theoretical perspectives on personality development and functioning, with additional emphasis on the assessment of personality and research in personality.

Pre-Requisites

[[PSY-101]].

PSY-250. APPLIED BEHAVIOR ANALYSIS

Credits: 3

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.

Pre-Requisites

[[PSY-101]].

PSY-257. NEUROPSYCHOLOGY

Credits: 3

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.

Pre-Requisites

[[PSY-101]].

PSY-264. POSITIVE PSYCHOLOGY

Credits: 3

Positive Psychology encompasses psychological theory and research about what makes our lives satisfying, purposeful, and "worth living", as well as what creates happiness and well-being. Students will examine the major theories and concepts of the field of positive psychology, and will engage in a variety of empirically-supported interventions designed to help them reach their fullest potential, improve overall quality of life, and enhance psychological well-being.

Course Descriptions

PSY-266. PEAK PERFORMANCE COACHING

Credits: 3

Peak Performance Coaching is a field of study and application with the aim of helping individuals reach their optimal level of performance. Students will learn and use multiple methods that can help clients with the process of setting and reaching goals. This course surveys and applies approaches such as Neurolinguistic Programming (NLP) and Life Coaching, employing techniques from these disciplines.

Pre-Requisites

[[PSY-101]]

PSY-300. RESEARCH METHODS

Credits: 4

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.

[Click here for course fees.](#)

Pre-Requisites

[[PSY-101]] and [[PSY-200]]. Students must have earned a 2.0 or higher in [[PSY-200]]. To be taken by Psychology or Neuroscience majors only, during the junior or senior year.

PSY-301. PSYCHOLOGICAL RESEARCH

Credits: 3

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 [[PSY-200]]. Students must have earned a 2.0 or higher in [[PSY-200]]. To be taken by Psychology majors only, during the junior or senior year.

PSY-309. CAREER MENTORING FOR THE SOCIAL SCIENCES

Credits: 2

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.

Pre-Requisites

[[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.

PSY-311. BEHAVIORAL NEUROSCIENCE

Credits: 4

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.](#)

Pre-Requisites

[[PSY-101]]; junior or senior standing.

PSY-331. COGNITION

Credits: 3

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.

Pre-Requisites

[[PSY-101]].

PSY-333. CRITICAL THINKING IN PSYCHOLOGICAL SCIENCE

Credits: 3

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.

Pre-Requisites

[[PSY-101]].

PSY-341. INTRODUCTION TO SOCIAL PSYCHOLOGY

Credits: 3

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]].

Pre-Requisites

[[ANT-101]], [[PSY-101]], or [[SOC-101]].

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 of 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-398. TOPICS

Credits: 3

The study of a topic of special interest not extensively treated in other courses. Topics chosen according to interest of the instructor. Because of its variable content, this course may be repeated for credit.

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.

Course Descriptions

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.