**NRSG 419**  SYNTHESIS PRACTICUM (3)  
Prerequisites: NRSG 412, 418/418L, 420, 428/428L (B- or better); corequisite: NRSG 410 (B- or better); corequisite or prerequisite: NRSG 402 (B- or better). 
This course emphasizes the synthesis and application of concepts, principles, and skills learned in prerequisite nursing courses. Students are given the opportunity to have intensive clinical experiences in selected clinical settings. Clinical experience is directed by faculty and supervised by clinical preceptors in a variety of settings.

**NRSG 420**  SEMINAR IN PUBLIC HEALTH (1)  
Prerequisites: NRSG 335/335L, 336/336L, 342/342L (B- or better). This public health course provides a theoretical basis for practice in the field of population and societal health. Public Health nursing content covers public and private health care systems, epidemiology, chronic and communicable disease prevention and control, environmental health, emergency preparedness, and nursing care of community based populations. Current trends and issues in local, national, and international public health are examined.

**NRSG 428**  CARE OF ADULTS WITH COMPLEX ILLNESSES (3)  
Prerequisites: NRSG 335/335L, 336/336L, 342/342L (B- or better). This course prepares students to provide care to adults with moderate to severe alterations in health. Critical thinking is incorporated into written and verbal communications as students synthesize knowledge and integrate a variety of nursing skills.

**NRSG 428L**  CARE OF ADULTS WITH COMPLEX ILLNESSES LAB (2)  
Six-hour clinical laboratory must be taken concurrently with NRSG 428.

**NRSG 440**  HEALTH ASSESSMENT (2)  
Corequisite: NRSG 442. In this course, RN students are introduced to a comprehensive, systematic approach to physical assessment. They will refine critical thinking skills to collect and organize subjective and objective health assessment data. Only RNs who are enrolled in the RN to MSN program may take this course.

**NRSG 442**  NURSING RESEARCH AND EVIDENCE-BASED PRACTICE (2)  
Corequisite: NRSG 440. In this course students are introduced to the research process in nursing and evidence-based nursing practice. Content focuses on problem identification, literature review, research design, sampling, data collection, analysis and interpretation of findings. Selected examples of nursing research are critiqued and evaluated for application to clinical settings. Students develop the beginning skills needed to be consumers of research and to evaluate the evidence to determine the best practice. Only registered nurses enrolled in the RN to MSN program may take this course.

**NRSG 446**  COMMUNITY AND PUBLIC HEALTH NURSING (3)  
Prerequisites: NRSG 440, 442. In this course students expand the use of the nursing process to provide nursing care to population groups and communities through the application to case studies and the exploration of evidence-based practice. This course can only be taken by registered nurses enrolled in the RN to MSN program.

**NRSG 448**  NURSING LEADERSHIP (2)  
Prerequisites: NRSG 440, 442, 446. In this course students examine their roles as leaders and managers in a variety of health care settings. Concepts such as organizational theory, leadership style, change management, team building, finance, quality improvement, conflict resolution and career related issues are discussed. Teaching strategies emphasize the use of student groups, discussion and team work to complete course objectives. This course can only be taken by registered nurses who are enrolled in the RN to MSN program.

**PHILOSOPHY COURSES (PHIL)**

**PHIL 100**  INTRODUCTION TO PHILOSOPHY (3)  
This course examines traditional philosophy problems with readings from major works in the history of Western philosophy. The basic principle of logic and major approaches to ethical decision-making are important parts of the course.

**PHIL 101**  INTRODUCTION TO ETHICS (3)  
This course introduces moral philosophy and its application to the problems of present-day living.

**PHIL 201**  INTRODUCTION TO LOGIC (3)  
This beginning course focuses on aspects of valid and invalid reasoning. Topics include definition, fallacious argumentation, the various uses to which language may be put, and elementary deduction.
PHIL 214  GREEK PHILOSOPHY (3) Prerequisite: PHIL 100 or 101. This introduction to Greek philosophy focuses primarily on Plato and Aristotle.

PHIL 215  MEDIEVAL PHILOSOPHY (3) Prerequisite: PHIL 100 or 101. Philosophical themes of the Middle Ages are related to the Neoplatonic and Aristotelian traditions as they influenced major thinkers of the period. Topics include wisdom as the goal of inquiry; the relation between faith and reason; the existence of God; the nature of humanity; and the immortality of the soul.

PHIL 216  MODERN EUROPEAN PHILOSOPHERS (3) Prerequisite: PHIL 100 or 101. This study of seventeenth- and eighteenth-century European philosophers includes Descartes, Locke, Berkeley, Hume, and Kant.

PHIL 217  CLASSIC AMERICAN PHILOSOPHERS (3) Prerequisite: PHIL 100 or 101. This course is an analysis of the philosophy writings of major American philosophers from the Pragmatic and Idealistic schools including Charles Sanders Peirce, William James, and John Dewey.

PHIL 220  ART, TRUTH, AND VALUE (3) Prerequisite: PHIL 100 or 101. An introduction to the philosophy of the fine arts, this course includes an examination of various definitions of art, discussions of the value of art to society, and an analysis of emotions found in the esthetic experience.

PHIL 221  MEANING AND EXISTENCE (3) Prerequisite: PHIL 100 or 101. This course examines the existential nature of human beings as they encounter and search for meaning in existence. Topics for discussion include such existential themes as authenticity, guilt, personal freedom, and the meaning of death. Course readings include the writings of theistic and atheistic existentialists.

PHIL 222  GOD, FAITH, AND EVIL (3) Prerequisite: PHIL 100 or 101. This course examines philosophical problems relating to religious faith.

PHIL 223  ETHICAL ISSUES IN BUSINESS (3) Prerequisite: PHIL 100 or 101. This course examines moral issues related to business, including conflicts of interest, the social responsibility of corporations, affirmative action, and preferential treatment.

PHIL 224  ETHICAL ISSUES IN MEDICINE (3) Prerequisite: PHIL 100 or 101. This course analyzes moral issues related to the areas of health care such as informed consent, abortion, physician-patient relationship, and the just distribution of health care.

PHIL 225  ENVIRONMENTAL ETHICS (3) Prerequisite: PHIL 100 or 101. An introduction to ethical issues and approaches concerning environmental studies. Topics to be addressed include the application of moral theory to various significant environmental issues, ethical treatment of animals, private ownership versus the common good, public policy and environmental concerns, and justice to current and future generations of humans.

PHIL 305  PHILOSOPHY OF SCIENCE (3) Prerequisite: PHIL 100 or 101. This introduction to the philosophy of science includes a study of the concepts of the empirical sciences, their methods and procedures, and their philosophical implications.

PHIL 306  KNOWLEDGE AND REALITY (3) Prerequisite: PHIL 100 or 101. This examination of the nature of knowledge places emphasis on the distinction between knowledge and belief, different types of knowing, the problem of skepticism, the role of perception in knowledge, and the nature of truth.

PHIL 313  SYMBOLIC LOGIC (3) Prerequisite: PHIL 100 or 101. This beginning course in symbolic formal logic introduces students to the formalization of arguments and the formal nature of deduction.

PHIL 314  THE MIND AND BRAIN (3) Prerequisite: PHIL 100 or 101. This course is an examination of various theories of what the mind is and its relation to the body. Concepts such as consciousness, belief, sensation, perception, and desire are discussed.

PHIL 315  THE PHILOSOPHY OF LAW (3) Prerequisite: PHIL 100 or 101. This course is an examination of various theories of what a legal system is. Attention is given to a number of related issues
including the role of morality in the formation of a legal system, legal justice, the proper limits of state authority over an individual citizen’s autonomy, and theories of punishment.

PHIL 397  INDEPENDENT STUDY IN PHILOSOPHY (1-3) Prerequisites: Approval of faculty sponsor and school dean; junior or senior standing. This course provides students the opportunity to pursue individual study of topics not covered in other available courses. The area for investigation is developed in consultation with a faculty sponsor and credit is dependent on the nature of the work. May be repeated for no more than six credits.

PHIL 398  SPECIAL TOPICS IN PHILOSOPHY (1-3) [credit depends on topic] Prerequisite: A background of work in the discipline. This course will focus on an aspect of the discipline not otherwise covered by the regularly offered courses. The topic will vary according to professor and term; consequently, more than one may be taken by a student during his/her matriculation.

PHIL 400  THESIS GUIDANCE (3) Prerequisites: PHIL 100 or 101, and senior standing. Supervision of senior thesis. Topic to be decided by student with approval of advisor.

PHYSICS COURSES (PHYS)

PHYS 141-142  COLLEGE PHYSICS (4, 4) Three hours lecture and two hours laboratory each semester. This intensive algebra and trigonometry based physics course sequence is for students majoring in the natural sciences. The course is designed to meet the needs of students preparing for MCATs. Content of the course includes mechanics, properties of matter, thermodynamics, waves and sound, electricity and magnetism, optics, quantum physics, and nuclear physics. One laboratory per week.

PHYS 161  PHYSICS I (4) Prerequisite: MATH 103 or concurrent enrollment in MATH 103. Three hours lecture and two hours laboratory. This course is a calculus-based survey of classical physics, providing a background for persons who intend to use physics as a base for the physics major or for other science disciplines. The first semester introduces the student to Newton’s laws including their application to statics and dynamics: to momentum and energy and their respective conservation principles; to rotational and angular quantities: and, if time allows, to the basic ideas of heat and thermodynamics.

PHYS 162  PHYSICS II (4) Prerequisite: MATH 103, 104 (or concurrent enrollment in MATH 104), PHYS 141 or 161. Three hour lecture and two hours laboratory. This continuation of a calculus based survey of classical physics introduces students to the physics of waves, including sound, to basic electromagnetic theory and optics.

PHYS 181  SOLAR SYSTEM ASTRONOMY (4) Three hours lecture and two hours lab. Basic overview of the properties of the planets, satellites, and minor members of the solar system. No prior experience in astronomy is required. Course meets the general education laboratory science requirement.

PHYS 182  STELLAR ASTRONOMY (4) Three hours lecture and two hours lab. Basic overview of current knowledge about the universe beyond the solar system. No prior experience in astronomy is required; course meets the general education laboratory science requirement.

PHYS 211  PHYSICS III (4) Prerequisite: MATH 211 (or concurrent enrollment in MATH 211) and PHYS 162. Three hours lecture and three hours laboratory. Topics include thermodynamics, waves, and what is called traditionally “modern physics.” This latter topic is a study of twentieth century developments in physics including an introduction to condensed matter physics, relativity, atomic physics, radioactivity, waves and particles, and nuclear processes.

PHYS 302  PHYSICS IV (4) Prerequisites: MATH 103, 104, 211, PHYS 161, 162, 211. Corequisite: MATH 301. This course prepares physics majors for the study of physics at the intermediate and advanced levels. We introduce and develop the following: new mathematical methods of physics, computational techniques, laboratory skills, and scientific writing. We also introduce students to physics research currently being carried on at Lynchburg College.

PHYS 309  CLASSICAL MECHANICS (4) Prerequisites: MATH 211, 301 (or concurrent enrollment in MATH 301), and PHYS 162. Three hours lecture and one-hour problem session. This course