COURSE DESCRIPTIONS
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ALH 102
Emergency/Disaster Preparedness for the Healthcare Professional
1 HOUR (1-0) FA, SP, SU
This course will present general aspects of emergency/disaster preparedness specific to the healthcare environment and as required by various healthcare program accrediting agencies. The course will present basic topics, including Incident Command Systems; federal, state and local response; role of volunteer organizations; mitigation and preparedness.

ALH 105
Basic Life Support and First Aid
1 HOUR (1-0) FA, SP, SU
This course is designed to provide knowledge and training in the prevention and treatment of accident, sudden illness and basic life support. Successful completion may result in American Heart Association certification and American Red Cross Standard First Aid certification.

ALH 110
Introduction to the Health Care System
2 HOURS (2-0) FA, SP, SU
A comprehensive review of the healthcare environment. The course will incorporate healthcare delivery trends and changes related to the rapidly changing healthcare system, including the organizational structures of acute care facilities, long-term and ambulatory care, home health, managed care, accreditation, ethical, legal and confidentiality issues, basic communication with patients and other health team members, universal precautions and the various roles of healthcare providers.

ALH 120
Medical Terminology
2 HOURS (2-0) FA, SP
Introduces the student to the medical terms used in the health profession. Emphasis will be on the basic principles of medical word building, definitions, spelling, reading practice and pronunciation. This class does not satisfy residency or elective requirements for students enrolled in the nursing program.

ALH 210
Introduction to Pharmacology
2 HOURS (2-0) SP
This basic course focuses on a survey of multiple therapeutic substances with emphasis on drug classification, physiologic effects, response monitoring and evaluation of action. Side effects, medication interactions and indications for use will also be discussed. Prerequisite: Admission to an allied health program or nursing program.

ALH 230
Women’s Health Care Issues
3 HOURS (3-0) FA, SP, SU
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Considers physiological, psychological and sociological aspects of healthcare topics of special interest to women. The focus of the course is to promote awareness of these topics, enabling students to make more informed choices regarding women’s health concerns.

**ALH 240**
*Human Sexuality*
3 HOURS (3-0) FA, SP, SU
Examine human sexual development throughout the human life cycle and explores the topics of sex and gender, sexual functioning and basic reproductive anatomy. It addresses the issues of premarital, marital and post marital sexual patterns, birth control, AIDS and sexually transmitted diseases, sexual dysfunction and homosexuality.

**ALH 280**
*Independent Study*
1 HOUR (1-5-0) FA, SP, SU
Supervised independent work in allied health designed to meet approved objectives/learner outcomes. Students must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.

**ART 101**
*Art Appreciation*
3 HOURS (3-0) FA, SP, SU
This course will introduce students to the study, practices and production of visual art styles throughout history and across many cultures. Students will trace the history of art from prehistory to the present day with special attention to the artist’s role in culture and in history. Students will have the opportunity to compose critical papers and creative projects that explore the complex relationship between culture and history.

**ART 103**
*History of Western Art: Prehistory to Medieval*
3 HOURS (3-0) FA, SP, SU
The major components of western art history, covering the periods from Prehistory into Medieval times, will be introduced in this course. Particular attention will be directed at the meaning of the art to the culture that created it, religious foundations and the perpetual effect that it has on us today.

**ART 104**
*History of Western Art: Renaissance to Contemporary*
3 HOURS (3-0) FA, SP, SU
This course examines the major artistic traditions in western culture and significant Non-Western occurrences, as well as introducing the fundamental methods of the discipline of art history. Approaches will be chronological, considering how the arts developed in and through history and
thematic, discussing how art and architecture were used for philosophical, religious and material ends.

**ART 300**  
*Non-Western Art*  
3 HOURS (3-0) FA, SP, SU  
This course is a survey of non-Western art, including painting, sculpture, and architecture, from the establishment of various civilizations and societies to the present. It is a study of the art of China, Japan, Korea, India, Africa, and Mesoamerica within the context of each culture.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

**BIO 100**  
*Student Success Strategies for Biology Majors*  
2 HOURS (2-0) FA  
This course is highly recommended for students majoring in Biology. It must be taken by first time College students going into the Bachelor of Science in Human Biology program. The class is an overview of where the science student is going and how to get there. Topics include: listening, note-taking, reading comprehension, critical thinking skills, study skills, observation skills, a review of fractions, introduction to the scientific method, expectations in the laboratory and thinking ahead to MCATs and GREs.  
Prerequisites: Must be a Biology major.

**BIO 101**  
*Biology*  
3 HOURS (3-0) FA, SP, SU  
Introduces the unique properties of living organisms and fundamental biological processes. Emphasis on molecular and cellular biology, bioenergetics, genetics and ecological systems.

**BIO 103**  
*Anatomic & Physiologic Considerations of Sleep*  
3 HOURS (3-0) SP  
This course explores the organ systems which predominate in the activity of sleep. The course focuses on the structure and function of the brain, systemic nervous, endocrine, cardiovascular and respiratory systems. This will not fulfill BIO 220 and BIO 221 course requirements.

**BIO 105**  
*Human Structure and Function*  
5 HOURS (5-0) FA  
Study of structure and function of the human body. Focuses on fundamental concepts of body organization and cellular function. Structure, functions and terminology of the body systems are considered. Note: This will not fulfill BIO 220 and BIO 221 course requirements.  
Prerequisite: BIO 101 or equivalent with a grade of C or higher within the last seven years.

**BIO 200**  
*Science in the News*  
2 HOURS (2-0)
Scientific advances are written about and broadcast every day in newspapers, radios, television, and the internet. The information to evaluate the validity of these advances is not. In this course, students will delve more deeply into popular science articles and critically analyze their accuracy, validity, and viewpoints. Topics will include current research that is reported in the popular press to long running scientific debates.

Prerequisites: BIO 101 and ENG 101 or equivalent with a grade of C or higher within the last seven years.

**BIO 201**  
*The Physiological Basis of Nutrition*  
2 HOURS (2-0) FA, SP, SU  
Adequate nutrition is the foundation of good health. The chemical compositions of carbohydrates, lipids and proteins are reviewed. The physiology of food utilization within the body and the chemistry of metabolism are examined in health. Basic principles of nutrition, including the Dietary Reference Intakes, assessment and disease states are covered.  
Prerequisite: BIO 220 or BIO 105 or equivalent with a grade of C or higher within the last seven years.

**BIO 205**  
*General Biology I*  
5 HOURS (4-3) FA  
The basic concepts of biology upon which students can begin to develop a conceptual framework of the discipline will be developed in this course and reinforced in upper-level courses. Cell structure and function, molecular biology, Mendelian and population genetics, and evolutionary theory will be covered in this first semester of a two semester sequence. Three hour lecture, one hour problem solving and quiz session and a three hour lab.

**BIO 206**  
*General Biology II*  
5 HOURS (4-3) SP  
The basic concepts of biology upon which students can begin to develop a conceptual framework of the discipline will be developed in this course and reinforced in upper-level courses. This course covers biological diversity, taxonomy, homeostasis, internal transport and gas exchange in plants and animals, plant hormones, osmoregulation, mechanisms of action of muscular, nervous and neuroendocrine systems and ecology will be covered in this second semester of a two-semester sequence. Three hour lecture, one hour problem solving and quiz session and a three hour lab.  
Prerequisite: BIO 205 or equivalent with a grade of C or higher within the last seven years.

**BIO 210**  
*Microbiology*  
4 HOURS (3-3) FA, SP, SU  
Survey of representative types of microorganisms in terms of their structure, function, cultivation, identification and methods employed for their control. Emphasis is placed on those causing human disease and the role of the immune system. Three hour lecture and three hour lab.
Prerequisite: High school biology or equivalent with a grade of C or higher within the last seven years.

**BIO 210L**  
*Microbiology*  
1 HOUR (0-3) FA, SP, SU  
In this laboratory course, students will observe, cultivate, characterize and identify microorganisms and practice techniques that control, kill and prevent the spread of them.  
Prerequisite: Successful completion at a regionally accredited college of a Microbiology course with no lab component with a grade of C or higher within the last seven years.

**BIO 220**  
*Anatomy and Physiology*  
4 HOURS (3-2-1) FA, SP  
Study of structure and function of the human body. Focuses on fundamental concepts of body organization and cellular function. Structure, functions and terminology of the skeletal, muscular, integumentary and nervous system are considered. Three hour lecture, two hour lab, and one hour of recitation.  
Prerequisite: High school biology or equivalent with a grade of C or higher within the past seven years AND high school chemistry or an equivalent with a grade of C or higher within the past seven years.

**BIO 220L**  
*Anatomy and Physiology I Lab*  
1 HOUR (0-3) FA, SP  
In this laboratory course, students will study the interrelationship between structure and function of the human body. The lab focuses on fundamental concepts of body organization and cellular function. Structure, functions and terminology of the skeletal, muscular and nervous system are examined.  
Prerequisites: Successful completion, at a regionally accredited college, of Anatomy and Physiology I lecture course only, or a completed Anatomy lecture course and a completed Physiology lecture course with a grade of C or higher within the past seven years.

**BIO 221**  
*Anatomy and Physiology II*  
4 HOURS (3-2-1) FA, SP  
Study of the structure and function of the human body. Focuses on structure and function of the circulatory, respiratory, digestive, excretory, endocrine and reproductive systems. Acid-base and fluid electrolyte balance are also considered. Three hour lecture, two hour lab, and one hour of recitation.  
Prerequisite: BIO 220 or equivalent with a grade of C or higher within the past seven years.

**BIO 221L**  
*Anatomy and Physiology II Lab*  
1 HOUR (0-3) FA, SP
In this laboratory course, students will study the interrelationship between structure and function of the human body. During the course of study, students will focus on the important interaction between structure and function of the circulatory, respiratory, digestive, excretory, endocrine and reproductive systems through the use of gross anatomical and histological preparations. Virtual labs are used to allow students to observe what happens to organ function following anatomical manipulations.

Prerequisites: Successful completion, at a regionally accredited college, of Anatomy and Physiology I and II lecture course only, or a completed Anatomy lecture course and a completed Physiology lecture course with a grade of C or higher within the past seven years.

**BIO 240**
*Career Topics for Biology Majors*
1 HOUR (1-0)
Introduces Biology majors to a variety of career paths. Guest speakers from health and research related fields will present what their field and job entails, along with the path they took to obtain their position. Students will also be required to do a minimum of two shadowing experiences within job fields they may like to pursue.
Prerequisites: Biology major of sophomore standing. BIO 206 and CHM 211 with a C or higher.

**BIO 280**
*Independent Study*
1-5 HOURS (1-5 - 0)
Supervised independent work in science designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.
Prerequisites: BIO 105, or BIO 220, BIO 221, BIO 205 and 206 or equivalents with a grade of C or higher within the past seven years.

**BIO 320**
*Pathophysiology*
3 HOURS (3-0) FA, SP, SU
Examination of basic pathophysiological processes, followed by a survey of diseases of the various body systems. The various ways in which these diseases manifest themselves as symptoms and signs, as well as laboratory findings leading to diagnosis, treatment and prognosis, will be discussed. Students will critically analyze several case study examples.
Prerequisites: BIO 105, or BIO 220, BIO 221 or equivalents with a grade of C or higher within the past seven years.

**BIO 330**
*Cardiovascular Physiology*
2 HOURS (2-0)
This course is designed to give students a better understanding of the functioning of the cardiovascular system. Focus will be placed on the structure and function of the cardiovascular system and how both systemic and local factors influence it’s functions. Additionally students will gain an understanding of the autorhythmicity of cardiac cells, the influence of the autonomic
nervous system and autorhythmicity and the cardiovascular system, the cardiac conduction system, neurophysiology of cardiac cells, ECG’s and cardiovascular pathophysiology.
Prerequisites: BIO 220, BIO 221, or BIO 105 or equivalents with a grade of C or higher within the past seven years.

BIO 331
Renal Physiology
2 HOURS (2-0)
This course is designed to give students a better understanding of the important aspects and fundamental concepts of how the kidneys function in health and disease. The course focuses on the important information necessary for students to develop a firm understanding of how the kidneys operate to maintain homeostasis. A greater understanding of the renal system serves as a frame of reference that students must comprehend before they can truly understand how alteration in renal function are associated with diseases and their clinical manifestations.
Prerequisites: BIO 220, BIO 221, or BIO 105 or equivalents with a grade of C or higher within the past seven years.

BIO 332
Fluid and Electrolyte Balance
2 HOURS (2-0)
This course is designed for students to gain a better understanding of the care and management of the patient with fluid and electrolyte disorders/imbalances. Focus will be placed on the composition of body fluids, fluid compartments and factors that affect movement of water and solutes. The regulation of vascular volume and extracellular fluid osmolality will also be presented. Etiology, signs and symptoms and treatment of patients with fluid and electrolyte imbalance, including but not limited to sodium, potassium, calcium, phosphorous and magnesium, will be explored.
Prerequisites: BIO 220 and BIO 221, or BIO 105 or equivalent with a grade of C or higher within the past seven years.

BIO 334
Genetics
2 HOURS (2-0)
Genetics studies the inheritance of traits, a topic that is introduced to students in an introductory biology class and reinforced in both microbiology and anatomy and physiology courses. This course is intended to provide a deeper understanding of classical and molecular genetics, a quickly expanding field. Emphasis is placed on eukaryotic genetics, beginning with basic inheritance patterns and their uses in pedigrees and chromosomal mapping, continuing with the molecular biology of the cell and ending with molecular genetic techniques and their potential use in medicine.
Prerequisite: BIO 101 or equivalent with a grade of C or higher within the past seven years.

BIO 335
Endocrine Physiology
2 HOURS (2-0)
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This course is designed to give students a better understanding of the endocrine system. The course focuses on the synthesis and action of steroid and non-steroid hormones. The course will also focus on the important information necessary for students to develop a firm understanding of how the endocrine system functions to maintain homeostasis. A greater understanding of the endocrine system serves as a frame of reference that students must comprehend before they can truly understand how alteration in the function of the endocrine system are associated with disease and their clinical manifestations. Major pathologic conditions of the endocrine system are used as a vehicle for teaching the physiology of the endocrine system.

Prerequisites: BIO 220, BIO 221, or BIO 105 or equivalents with a grade of C or higher within the past seven years.

BIO 340
Recent Advances in Medicine
1 HOUR (1-0)
This course is run in a journal club format in which students will find and present research articles describing current advances/controversies in the medical field. This course will enable students to keep current on the most recent advances in the field of medicine and how these advances/controversies may change patient care.

Prerequisites: BIO 220 and BIO 221 or equivalent with a grade of C or higher within the past seven years.

BIO 350
Biology of Human Reproduction
3 HOURS (3-0)
This course examines the biological aspects of sexuality from a structural, functional and evolutionary standpoint. Topics include human inheritance and genetic counseling, reproductive hormones, anatomy and physiology of the reproductive organs, the human sexual response, pregnancy and birth, fertility and infertility, sexual disorders and sexually transmitted diseases, evolution of human sexual behavior, and other related issues from a biological perspective.

Prerequisites: BIO 105 or BIO 220 & 221 with a grade of C or higher within the past seven years.

BIO 400
Service Learning
2 HOURS (1-3)
Students will learn and develop through active participation in organized service that is conducted in and meets a need of the community. Projects in the community will be identified based on community needs in health or science and student interest. Along with off-campus experiential learning in the community project, students will have structured time in class to reflect on the service experience and clarify goals and expectations of the project.

Prerequisite: Junior status in the Human Biology degree program.

BIO 410
Cell Biology
4 HOURS (4-0)
This course focuses on the underlying molecular mechanisms of biological function at the cellular level. It includes the study of the internal organization of the cell, organelle and membrane function, cell-cell signaling, cell movement, cell adhesion, and the extracellular matrix.

Prerequisites: General Biology 205 and 206 for majors or BIO 220 and 221 or equivalent with a grade of C or higher within the past seven years.

**BIO 420**  
*Histology*  
4 HOURS (3-3)  
Histology is an introduction to the microscopic anatomy of mammalian cells, tissues and organs. The emphasis of the course will be on the study of human tissues and organs. The intention of the course is to build upon previously acquired knowledge of the cell and expand to cell differentiation, tissue and organ development. Topics that will be covered include: Cells and Basic tissues, such as: Epithelium and Integumentary tissues; Loose, Dense and specialized Connective Tissue; Adipose, Circulatory, Respiratory, and Endocrine tissues; Nervous and Sensory Tissue; Digestive tissue; Renal and Reproductive Tissues. Three hour lecture and a three hour lab.

Prerequisites: General Biology 205 and 206 for majors or BIO 220 and 221 or equivalent with a grade of C or higher within the past seven years.

**BIO 430**  
*Principles of Ecology*  
4 HOURS (3-3)  
Ecology is the discipline in biology that studies the interaction between organisms and their environment. Topics covered include the dynamics among individuals of the same species, interactions between species, relations between living organisms and their nonliving environment, and the cycling of nutrients and energy. Three hour lecture and a three hour lab.

Prerequisites: General Biology 205 and 206 for majors or equivalent with a grade of C or higher within the past seven years.

**BUS 222**  
*Managerial Accounting*  
3 HOURS (3-0) SP  
In this course students will apply accounting concepts to various organizations. Includes cost finding and cost analysis, financial statement analysis, budgeting and reimbursement theory.

**BUS 312**  
*Human Resources Management*  
3 HOURS (3-0) FA, SP  
Proven hands-on applications of both classic and current management principles and practices will be identified. Students will learn strategies, techniques and tools to build or reinforce management skills, leadership skills and discuss the never-ending challenges that a manager faces daily.
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Marketing Concepts
3 HOURS (3-0) FA, SP
An introduction to marketing concepts with emphasis on current marketing trends in the marketplace. Consumer orientation, marketing plans and strategy development will also be discussed.

BUS 350
Nonprofit Healthcare Management
3 HOURS (3-0) FA, SP, SU
This course will offer students the opportunity to examine the nonprofit side of healthcare, including hospitals and local health-oriented organizations. Students will learn about the organizational structure, financial operations, the importance of awareness and management tactics, including working with volunteers.
Prerequisites: ENG 102 with a grade of C or higher.

CHM 110
Chemistry I
4 HOURS (3-3) FA, SP, SU
A laboratory introductory course with atomic structure and bonding as a basis for understanding valence, formulas, compounds and chemical reactions. Measurement, states of matter, solutions, ionization and their applications in daily life are discussed. Three hour lecture and three hour lab.
Co-requisite: MTH 095 or permission from instructor.

CHM 111
Chemistry II
4 HOURS (3-3) FA, SP, SU
A laboratory course which focuses on organic chemistry, including functional groups and their properties and reaction mechanisms; and biochemistry of carbohydrates, proteins and lipids. Three hour lecture and three hour lab.
Prerequisite: CHM 110 or High school chemistry or equivalent with a C or higher within the last seven years.

CHM 210
General College Chemistry I
5 HOURS (4-3) FA
Deals with the principles of inorganic chemistry including formulas, equations, reaction principles, atomic and molecular structure, bonding thermochemistry, states of matter, stoichiometry and the periodic table. Provides the basis of all higher levels of chemistry. Three hour lecture, one hour problem solving and quiz session and a three hour lab.
Prerequisite: High school chemistry or equivalent with a C or higher within the last seven years and MTH 106 or equivalent with a C or higher within the last seven years.

CHM 211
General College Chemistry II
5 HOURS (4-3) SP
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Continues the study of General College Chemistry I (CHM 210). Includes chemical equilibria, kinetics, solutions, acids and bases, complex ions and coordination compounds redox reactions, thermodynamics, nuclear chemistry and brief introduction to organic chemistry and qualitative analysis. Three hour lecture, one hour problem solving and quiz session and a three hour lab. Prerequisite: CHM 210 or equivalent with a C or higher within the last seven years.

CHM 310
*Organic Chemistry I*
4 HOURS (3-3) FA

This course is the first semester of a two semester organic chemistry sequence. The intention of the course is to provide a good background in organic for subsequent science classes. Topics that will be covered include: bonding theories, alkanes, cycloalkanes, acid-base chemistry, stereochemistry, alkenes, alkynes, haloalkanes, nucleophilic substitution and elimination reactions, alcohols and ethers. Three hour lecture and a three hour lab. Prerequisite: General Chemistry II (CHM 211) or equivalent with a C or higher within the last seven years.

CHM 311
*Organic Chemistry II*
4 HOURS (3-3) SP

This course is the second semester of a two semester organic chemistry sequence. The intention of the course is to provide a good background in organic chemistry for subsequent science classes. Topics that will be covered include: aldehydes, ketones, carboxylic acids, carboxylic acid derivatives, enolate chemistry, conjugated dienes, aromatic compounds, amines, carbohydrates and amino acids. Three hour lecture and a three hour lab. Prerequisite: CHM 310 or equivalent with a C or higher within the last seven years.

CHM 410
*Biochemistry*
5 HOURS (4-3)

This course introduces the fundamental principles of modern biological chemistry. Includes the structure, chemistry and metabolism of proteins, lipids, carbohydrates, and other biomolecules. In the biochemistry laboratory students will become familiar with many of the laboratory practices and techniques that are used in the preparation, isolation, purification, and identification biochemical compounds. Specifically, the course is designed to teach common biochemical techniques such as electrophoresis, protein assays, enzyme kinetics protein purification and recombinant DNA methods and give students an appreciation for the application of these techniques in solving various kinds of problems in biochemistry research. Four hour lecture and a three hour lab. Prerequisite: CHM 310 or equivalent with a C or higher within the last seven years.

CIS 101
*Introduction to Keyboarding and Computers*
1 HOUR (1-0) FA, SP

This course is designed for the student who has no previous experience with basic computer use and keyboarding or who needs a refresher course on keyboarding to improve speed and
accuracy. Emphasis will be on proper finger techniques for alphanumeric and symbol keys with speed and accuracy.

CIS 104  
*Introduction to Word Processing/Presentation Applications*  
1 HOUR (1-0) FA, SP, SU  
This course is designed to provide hands on experience and basic applications of word processing and presentation software.  
Prerequisite: Computer Competency or CIS101 or equivalent.

CIS 106  
*Introduction to Spreadsheet Applications*  
1 HOUR (1-0) FA, SP, SU  
This course is designed to provide hands on experience and basic applications of spreadsheet software.  
Prerequisite: Computer Competency or CIS 101.

CIS 108  
*Introduction to Database Applications*  
1 HOUR (1-0) FA, SP, SU  
This course is designed to provide hands on experience and basic applications of database software.  
Prerequisite: Computer Competency or CIS 101 or equivalent.

CIS 230  
*Advanced Spreadsheet Applications*  
1 HOUR (1-0) SU  
This course is designed to provide hands on experience and advanced application of Microsoft Excel.  
Prerequisite: CIS 106.

CIS 231  
*Advanced Database Applications*  
1 HOUR (1-0) SU  
This course is designed to provide hands on experience and advanced application of Microsoft Access.  
Prerequisite: CIS 108.

COM 260  
*Public Speaking*  
3 HOURS (3-0) FA, SP, SU  
This course develops students’ skills in several forms of public address and presentation, preparing them to become effective communicators in their chosen fields.

COM 270
Communication for Professional Success

3 HOURS (3-0) FA, SP, SU
Communication and critical thinking skills are necessary both to secure a job and to succeed in the diverse, ever-changing workplace of the 21st century. Students in this course study resume-building, interviewing, self-care, face-to-face communication on the job, development of interpersonal skills, meeting management, presentational speaking, electronic communication skills, and communication flow in organizations.

COM 300
Entertainment in American Life

3 HOURS (3-0) FA, SP, SU
Entertainment plays a vital role in American culture. This course raises awareness and deepens understanding of this role in intrapersonal, interpersonal, group, organizational, and mass communication; traces its historical origins and ethical implications; and enables conscious and responsible choices as the result of this awareness and understanding.
Prerequisites: ENG 101 and ENG 102 or equivalents.

CV T 110
Cardiac Dysrhythmias

4 HOURS (4-0) FA
This course addresses cardiac electrophysiology, the process of rhythm analysis, heart sounds and ambulatory monitoring techniques.
Co-requisites: CVT 111.
Prerequisites: Admission into the CVT Program.

CV T 111
Cardiac Dysrhythmias Lab

1 HOUR (0-2) FA
This course examines twelve-lead EKG analysis and troubleshooting, patient preparation and instruction or ambulatory monitoring.
Co-requisite: CVT 110.
Prerequisites: Admission into the CVT Program.

CV T 120
12-Lead EKG Interpretation

4 HOURS (4-0) SP
This course covers twelve-lead EKG analysis including bundle branch blocks, hypertrophiCs, infarction patterns, pediatric EKG interpretation and stress test procedures.
Co-requisite: CVT 121.
Prerequisites: BIO 220, CVT 110, CVT 111, all with a grade of C or higher.

CV T 121
12-Lead EKG Interpretation Lab

1 HOUR (0-2) FA, SP, SU
This laboratory course focuses on equipment set-up, patient preparation, performance of
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12-lead EKGs, preparation and performance of stress testing, and analysis of both normal and abnormal twelve-lead EKG recordings.
Co-requisite: CVT 120.
Prerequisites: CVT 110, 111, both with a grade of C or higher.

CV T 122
12-Lead EKG Interpretation Clinical Practice
4 HOURS (0-16) SU
Clinical experiences are provided in acute care and outpatient settings for EKG, ambulatory monitoring and stress testing.
Prerequisites: CVT 120, CVT 121, BIO 221 and current BLS for Healthcare Providers certification, all with a grade of C or higher.

CV T 130
Ultrasound Instrument Mechanics and Wave Physics
1 HOUR (0-1) FA
A study of ultrasound instrumentation mechanics and ultrasound wave physics. Introduction to knobology of the imaging system in noninvasive cardiology studies.
Co-requisites: CVT 210 and CVT 211 OR CVT 240 and CVT 241.
Prerequisites: MTH 104/106 and CVT 122, all with a grade of C or higher.

CV T 140
Ultrasound Physics and Instrumentation
4 HOURS (4-0) SP
This course covers physical principles of ultrasound image generation and the image interpretation skills, and assessment of cardiac and peripheral vascular diseases.
Corequisite: CVT 220 and CVT 221, or CVT 250 and CVT 251.
Prerequisites: CVT 130, with a grade of C or higher.

CV T 210
Echocardiography
4 HOURS (4-0) FA
This course examines the procedures and principles of M-mode, 2-D and Doppler echocardiography with an emphasis on views and pathology.
Co-requisite: CVT 130 and CVT 211.
Prerequisites: CVT 122, with a grade of C or higher.

CV T 212
Echocardiography Lab I
2 HOURS (0-4) FA
This course is an introduction to echocardiography views utilized for M-mode, 2-D and Doppler measurements. Laboratory experience is provided to support the didactic and clinical curriculum.
Corequisite: CVT 130, CVT 210 and CVT 214.
Prerequisites: CVT 122, with a grade of C or higher.
CV T 214  
*Echocardiography Clinical Practicum I*  
2 HOURS (0-14) FA  
This course is an introduction to echocardiography views utilized for M-mode, 2-D and Doppler measurements. Clinical practice experience is provided to support the didactic and laboratory curriculum.  
Co-requisite: CVT 130, CVT 210 and CVT 212.  
Prerequisites: CVT 122, with a grade of C or higher.

CV T 220  
*Advanced Echocardiography*  
2 HOURS (2-0) SP  
This course focuses on advanced pathophysiology, including stress echo, transesophageal and congenital anomalies.  
Co-requisite: CVT 140, CVT 222 and CVT 224.  
Prerequisites: CVT 210, CVT 212 and CVT 214, all with a grade of C or higher.

CV T 222  
*Advanced Echocardiography Lab II*  
1 HOURS (0-2) SP  
This course focuses on laboratory experiences covering advanced echocardiography studies with Doppler interpretation.  
Co-requisite: CVT 140, CVT 220 and CVT 224.  
Prerequisites: CVT 210, CVT 212 and CVT 214, all with a grade of C or higher.

CV T 224  
*Advanced Echocardiography Clinical Practicum II*  
3 HOURS (0-21) SP  
This course focuses on clinical experiences covering advanced echocardiography studies with Doppler interpretation. Clinical practice will be held off campus.  
Corequisite: CVT 140, CVT 220 and CVT 222.  
Prerequisites: CVT 210, CVT 212, and CVT 214, all with a grade of C or higher.

CV T 240  
*Peripheral Vascular-Venous Disorders*  
4 HOURS (4-0) FA  
This course studies the procedures and principles involved in recording and performing an analysis of non-invasive peripheral vascular venous data. Quantitative and qualitative methods of detecting venous diseases are covered.  
Co-requisite: CVT 130, CVT 242 and CVT 244.  
Prerequisites: CVT 122, with a grade of C or higher.

CV T 242  
*Peripheral Vascular-Venous Disorders Lab I*  
2 HOURS (0-4) FA
This laboratory course addresses performance of non-invasive peripheral vascular procedures related to venous diseases.
Co-requisite: CVT 130, CVT 240 and CVT 244.
Prerequisites: CVT 122, with a grade of C or higher.

**CV T 244**  
*Peripheral Vascular-Venous Disorders Clinical Practicum I*  
2 HOURS (0-14) FA  
This clinical course addresses performance of non-invasive peripheral vascular procedures related to venous diseases. Clinical practice rotations are held off campus.
Co-requisite: CVT 130, CVT 240 and CVT 242.
Prerequisites: CVT 122, with a grade of C or higher.

**CV T 246**  
*Peripheral Vascular-Arterial Disorders Lab II*  
1 HOURS (0-2) SP  
This course provides laboratory experiences for non-invasive peripheral vascular procedures related to arterial diseases.
Corequisite: CVT 140, CVT 248 and CVT 250.
Prerequisites: CVT 240 and CVT 242 and CVT 244, all with a grade of C or higher.

**CV T 248**  
*Peripheral Vascular-Arterial Disorders Clinical Practicum II*  
3 HOURS (0-21) SP  
This course provides clinical experiences for non-invasive peripheral vascular procedures related to arterial diseases. Clinical practice is held off campus.
Co-requisite: CVT 140, CVT 246 and CVT 250.
Prerequisites: CVT 240 and CVT 241, both with a grade of C or higher.

**CV T 250**  
*Peripheral Vascular-Arterial Disorders*  
2 HOURS (2-0) SP  
This course focuses on procedures and principles involved in recording and performing analysis of non-invasive peripheral vascular arterial data. Quantitative and qualitative methods of detecting arterial diseases are covered.
Co-requisite: CVT 140, CVT 246 and CVT 248.
Prerequisites: CVT 240, CVT 242 and CVT 244, all with a grade of C or higher.

**CV T 252**  
*Cardiovascular Clinical Capstone*  
4 HOURS (0-16) SU  
This course provides clinical experiences which allow the student to perform noninvasive echocardiography or peripheral vascular exams under the direct supervision of a qualified technologist. Clinicals are held off campus.
COURSE DESCRIPTIONS
2012-2013

Prerequisites: CVT 220, CVT 222 and CVT 224 or CVT 250, CVT 246 and CVT 248, all with a grade of C or higher.

CV T 280
Independent Study
1-3 HOURS (variable, 1-3 - 0) SU
This course provides supervised independent work in cardiovascular technology designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal.
Prerequisites: Written Approval from the Instructor and the Associate Dean of Allied Health.

DSC 250
Dual Studies Course
These courses are based on the spirit of intellectual sharing of ideas and crossing of disciplinary boundaries to achieve greater knowledge. Although they are interdisciplinary like the IDS courses, they are not Humanities courses or requirements. Courses vary and include such offerings as “Human Sexuality,” a course taught from both a physical and social science perspective.

DSC 251
Human Sexuality
3 HOURS (3-0) FA, SP, SU
Examines human sexual development throughout the human life cycle and explores the topics of sex and gender, sexual function and reproductive anatomy and physiology. It addresses the issues of premarital, marital and post-marital sexual patterns, birth control, infertility, sexually transmitted diseases and sexual dysfunction.
Prerequisites: BIO 101, PSY 101 or equivalents.

EMS 101
Introduction to Basic Pre-Hospital Emergency Medicine
8 HOURS (6-2) FA
This course will introduce the student to preparatory pre-hospital care including roles and responsibilities, wellness of the EMT-Basic, injury and illness prevention, and medical/legal & ethical issues. A general review of anatomy and physiology, pharmacology, communication and documentation techniques and principles of operations will be discussed. Important techniques such as airway management and ventilation, patient assessment of the medical and trauma patient, caring for the infant, child, adult and geriatric patient will be covered.
Prerequisites: Certificates for NIMS IS100 & IS 700, BLS for Healthcare Provider.

EMS 102
Basic Pre-Hospital Emergency Medicine
Clinical Practice
0.5 HOURS (0-6) FA
This course will introduce the student to preparatory pre-hospital care including roles and responsibilities, wellness of the EMTBasic, injury and illness prevention, and medical/legal &
ethical issues. Students will be given opportunities to demonstrate proficiency in important techniques such as airway management and ventilation, patient assessment of the medical and trauma patient, and caring for the infant, child, adult and geriatric patient. Corequisite: EMS 101.

EMS 110
*Introduction to Paramedic Pre-Hospital Emergency Medicine*
10 HOURS (8-2) SP
This course will introduce the student to preparatory pre-hospital care including roles and responsibilities, wellness of the EMTParamedic, injury and illness prevention, and medical/legal & ethical issues. A general review of anatomy and physiology as well as pharmacology, venous access and medication administration, therapeutic communications and life span development will be covered. Important techniques such as airway management and ventilation, patient assessment and trauma integration & management will be included. Prerequisites: Acceptance into the EMT-Paramedic certificate program, including BIO 105 or equivalent as a Prerequisite and possession of valid and current EMT-Basic certification.

EMS 111
*Pre-Hospital Emergency Directed Clinical Practice I*
2 HOURS (0-12) SP
This course will focus on demonstration and performance of accurate patient assessments, safe venous access, administration of medications, endotracheal intubation, and ventilation of patients of all age groups. Prerequisites: Acceptance into the EMTParamedic certificate program, including BIO 105 or equivalent as a Prerequisite and possession of valid and current EMT-Basic certification. Co-requisite: EMS 110.

EMS 120
*Emergency Cardiovascular Disease*
10 HOURS (8-2) SU
This course will cover the aspects of the cardiovascular system including disease pathology, cardiac arrhythmias and vascular disorders. Students will understand cardiovascular complaints, cardiac monitoring and management of cardiovascular emergencies. Prerequisites: EMS 110.

EMS 121
*Pre-Hospital Emergency Directed Clinical Practice II*
2 HOURS (0-12) SU
This course will enhance the clinical skills of the paramedic student to perform comprehensive patient assessments and integrate assessment findings while formulating a treatment plan in the prehospital clinical setting. Prerequisites: EMS 110.
EMS 130  
*Medical Emergencies*  
11 HOURS (9-2) FA  
This course will allow the student to study medical emergencies covering all the major systems of the body. Care of neonatal, pediatric and geriatric patients will be discussed. Topics will include patients with special challenges, as well as victims of abuse or assault. Acute intervention of the chronic patient will also be presented.  
Prerequisites: EMS 120, EMS 121.

EMS 131  
*Emergency Medical Operations*  
3 HOURS (2-1) FA  
Assessment-based management and ambulance operations will be covered in this course. Students will learn general incident and multiple casualty incident management techniques, as well as rescue awareness.  
Prerequisites: EMS 120, EMS 121.

EMS 132  
*Pre-Hospital Emergency Medicine Practicum*  
2 HOURS (0-14) FA  
In this course, the paramedic student will exhibit behaviors indicative of a team leader in a field setting, utilizing critical thinking and decision making skills in the assessment, management and treatment of the pre-hospital emergency patient. Important considerations regarding continuing education, job requirements and professionalism will be included.  
Prerequisites: EMS 121.  
Co-requisites: EMS 130, 131.

ENG 099  
*Basic Writing*  
3 HOURS (3-0) FA, SP  
This course broadens understanding of English grammar and mechanics as a foundation for developing competence in the writing process. Through individual and group activities, each class session focuses on one or more skills which are fundamental to effective writing: reading comprehension; critical thinking; and the processes of pre-writing, revising and proofreading. Collaborative writing and peer evaluation of professional and student work will be included in class assignments as proficiency is acquired in sentence structure and in the components of effective paragraphs and essays. If a student is unsuccessful in a second enrollment, he/she will be dismissed from the College.

ENG 101  
*English Composition I*  
3 HOURS (3-0) FA, SP, SU  
Various reading and writing assignments broaden understanding of diverse topics, varied cultures, life experiences and social and professional issues while improving skills in writing and oral expression. The overall course goal is that students enjoy a richer personal and professional
life through writing and gain a basic command of standard English. APA documentation style, critical analysis and basic research techniques are introduced.

**ENG 102**  
*English Composition II*  
3 HOURS (3-0) FA, SP, SU  
This course is designed to reinforce a process approach to writing while developing the variety of styles required for effective communication. Analytical thinking and critical reading form the basis for clear and concise writing addressing differing purposes with an emphasis on argumentation. A review of standard English rules is integrated with peer review and instructor critique of major project and presentation. A passing grade or waiver of Composition I is required.  
Prerequisite: ENG 101 or equivalent.

**ENG 200**  
*Professional/Technical Communication*  
3 HOURS (3-0) FA, SP, SU  
This course provides extensive practice in business and administrative communication for professionals through the use of computer technology. Students will produce different types of correspondence, such as formal written reports, oral presentations, effective resumes and job application letters.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

**ENG 201**  
*Principles of Communication*  
3 HOURS (3-0) FA, SP, SU  
The purpose of this course is to examine communication theories and to practice fundamentals essential for developing oral, written and visual communication skills. Participation in class exercises and individual presentation leading to effective interpersonal and group communication are required.

**ENG 202**  
*Communication and Media*  
3 HOURS (3-0) FA, SP, SU  
The application of communication theory and skills in workshop activities. Emphasis is on providing experiences in the selection and preparation of appropriate materials for delivering a message and using selective technology available to support effective communications.

**ENG 203**  
*Mass Communication and Society*  
3 HOURS (3-0) FA, SP, SU  
This course is designed to help students become more informed and discerning consumers of mass media. Classes apply communication theory and skills in a wide variety of workshop activities. Emphasis is on analyzing source materials from various media including film, music, print and electronic sources. Students will select and prepare materials for constructing and
delivering messages using appropriate technology available to support effective communications. Prerequisites: ENG 101 and basic keyboarding skills.

ENG 210  
*The Short Story*  
3 HOURS (3-0) FA, SP, SU  
Introduces readers to a wide range of narratives, both classical and contemporary. It provides a variety of reading experiences from both men and women and from various ethnic as well as mainstream cultures. The course will review plot elements and certain literary devices that enhance the reading experience. Students explore what they believe to be the author’s purpose(s) as well as meanings they find in the works themselves.

ENG 280  
*Independent Study*  
1-5 HOURS (1-5 - 0) FA, SP, SU  
Supervised independent work in English designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.

ENG 310  
*Studies in World Literature*  
3 HOURS (3-0) FA, SP, SU  
This course will include a representative sampling of texts from the Classical Age of British detective fiction to present-day offerings with an emphasis on Golden Age readings. This course will conduct trans-historical comparison and contrast of novels as well as comparison and contrast of literary texts to screen texts. Students will be encouraged to make connections between the texts with events and attitudes in the world at large. Prerequisites: ENG 101 or equivalent.

EYE 111  
*Essentials of Ophthalmic Technology*  
2 HOURS (2-0) FA, SP, SU  
Instruction includes introduction to the field of ophthalmic practice, the function of the ophthalmic assistant, types of medical practices, specialties, principles of ophthalmic services, basic optical properties, and the role of an ophthalmic professional. Content includes the history of the ocular profession, compliance with Health Insurance Portability and Accountability Act (HIPAA) and Occupational Safety and Health Act (OSHA), medical law and ethics, and the importance of proper patient interaction. History taking, patient triage and flow, office forms, scribing, quality assurance, and informed consent are addressed. Professional standards of care and accommodations for special populations are explored.

EYE 112  
*Ocular Terminology, Anatomy, Physiology, and Diseases*  
4 HOURS (4-0) FA, SP, SU
The content will cover medical terminology, anatomy, and physiology specific to the eye and the eye conditions. The course will introduce diseases of the eye, eye emergencies, and appropriate pharmacology.

**EYE 113**  
*Ophthalmic Technology Application and Practice*  
4 HOURS (0-8) FA, SP, SU  
This course introduces the use and maintenance of ophthalmic instruments used in eye care. Visual and papillary assessment, ocular motility, refractometry, Keratometry, tonometry, visual fields, and Ophthalmic imaging are addressed. Instruction includes discussion of sterilization and preparation of surgical instruments, sterile fields, and laser safety. This course provides students with hands-on experiences performed in an ophthalmic setting. Content includes microbiology, surgical procedures and assisting, and contact lens measurements, patient instructions, and fitting.

**EYE 114**  
*Ophthalmic Capstone*  
1.5 HOURS (1.5-0) FA, SP, SU  
This course provides Ophthalmic Technology students with the skills necessary to transition into the workforce. It offers discussions of current trends/topics related to eye care, continuing education, interviewing and resume writing, values, personal excellence, professionalism, self-assessment and review for the national certification exam.  
Co-requisite: EYE 115.  
Prerequisites: EYE 111, EYE 112, EYE 113.

**EYE 115**  
*Ophthalmic Clinical*  
5.5 HOURS (0-33) FA, SP, SU  
This course provides supervision of student learning experiences in an ophthalmic setting allowing the student to view and perform a variety of skills and patient interaction 217 course descriptions opportunities. Students will also be required to interact with other eye care professionals and patients.  
Co-requisite: EYE 114.  
Prerequisites: EYE 111, EYE 112, EYE 113.

**GEN 100**  
*College Academic Skills Seminar*  
0.5 HOURS (0.5-0) FA, SP, SU  
The Seminar provides students with basic study skills and academic management strategies necessary for college success. Topics include active listening and note-taking, recalling material for tests and exams, and test preparation and taking skills. Course may only be taken during the first semester of study with permission granted by an academic advisor.
COURSE DESCRIPTIONS
2012-2013

Student Success Strategies
2 HOURS (2-0) FA, SP
For all students interested in enhancing academic performance and achieving efficient learning. Topics include: learning styles, listening, note-taking, reading comprehension, test-taking, critical thinking, APA style and college resources. This course must be taken during the first two terms of enrollment at Mercy College by first time college students and provisionally admitted students. This course may also be taken by students who are in academic jeopardy (e.g. Academic Probation, Program Dismissal or College Dismissal).

HCA 214
Integrated Health Care Delivery Systems
3 HOURS (3-0) FA, SP
In this course students will learn to apply a unique, population-based approach to health care delivery issues and learn about the changing roles of the components of the U.S. health care system as well as the technical, economic, political and social forces responsible for those changes.

HCA 224
Health Care Economics
3 HOURS (3-0) FA, SP
In this course students will apply economic analysis to health and health care services. Examines the concept of health as human capital. Investigates special features of the supply, demand, distribution and economic impact of health care delivery.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 300
Residency for Distance Learning Program I
0.5 HOUR (0.5-0) FA, SP
The Residency for Distance Learning Program I is designed to provide an overview of the distance learning program and the College course management software used to deliver courses. The course is intended to enhance student success by orienting them to strategies and resources for online learning as well as Mercy College policies and procedures. Through this course, students will be introduced to services provided by the College addressing academic, programmatic and technical needs. The residency will also provide community building among cohort members and faculty who will interact via online coursework throughout their program of study.

HCA 316
Health Care Information Systems
3 HOURS (3-0) FA, SP
Introduces foundational knowledge and students participate in the design, selection, implementation and use of clinical and administrative information systems. Familiarizes the student with new and emerging technologies in the health care field.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 400
COURSE DESCRIPTIONS
2012-2013

Health Care Administration Internship
1 HOUR (0-6) SP, SU
Off-campus experiential learning of a preprofessional nature is available for work in health care facilities and related organizations. Projects are performed on-site under the supervision of a qualified professional. Placement of students is supervised by the faculty of the Health Care Administration program. (Required completion HCA students). Course must be taken in the same semester as expected graduation.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 401
Residency for Distance Learning Program II
0.5 HOUR (0.5-1) SP
The Residency for Distance Learning Program II is designed to provide an opportunity for students to come together prior to graduating from their respective programs. This course will include program assessments and informational sessions pertaining to graduation and future career opportunities. Course must be taken in the same semester as expected graduation.
Prerequisite: HCA 214.

HCA 410
Health Care Finance
3 HOURS (3-0) FA, SP
In this course students will review issues in reimbursement structures, regulatory mechanisms, cost control and related factors affecting administration of health services organizations.
Co-requisite: HCA 400, HCA 424, with a grade of C or higher.

HCA 412
Health Care Law & Ethics
3 HOURS (3-0) SU
This course will present the government policies and guidelines relating to the operation of health care systems. Within this context, discussion will be led around the impact on the implementation of health care and the ethical responsibilities ascribed to health care administrators. Examines tort, contract and statutory law related to healthcare delivery.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 418
Managed Care Contracting
3 HOURS (3-0) FA, SP
In this course, students will review the evolution and shape of managed care, related public programs and public policy. The practical application of the course is a primer on insurance, Medicare/Medicaid reimbursement, managed care contracting, developing an appropriate negotiating strategy and performing the necessary financial analysis to support a beneficial and workable health service plan.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 424
Health Care Administrative Capstone
COURSE DESCRIPTIONS
2012-2013

3 HOURS (3-0) SP, SU
In this course, students will integrate the various topics within the curriculum focusing on current developments in the health care administration field, such as managed care, reengineering, TQM/CQI, budgeting, finance, personnel, planning, team-building, changing work force, health care paradigm shift and many other management topics. Course must be taken in the same semester as expected graduation.
Prerequisite: HCA 214, with a grade of C or higher.

HCA 430
Management Accountability in Health Care Organizations
3 HOURS (3-0) FA, SP
Focusing on the health care imperative of accountability to the community, students in this course will deal with the measurement of performance in health care organizations, the implementation of business strategies, strategic plans, project management and the attainment of organizational goals. Introduction to CQI, performance improvement, clinical and service quality.
Prerequisite: HCA 214, with a grade of C or higher.

HIT 114
Orientation to Health Information Technology
3 HOURS (2-2) FA
Introduction to the health information technology profession in the acute setting, its function and how it relates to other departments. Orientation to the health record, numbering, filing and storage media. This course also includes aspects related to medical staff, personnel requirements, licensing, certifying and accrediting agencies. Laboratory practice in assembly, analysis, filing and retrieval of health records. The student will also be exposed to the concept of the electronic health record and hybrid systems.

HIT 120
Health Records in Ancillary Facilities
2 HOURS (2-0) FA
Introduction to medical record procedures in long term care, ambulatory, home health, hospice, psychiatric and other community health facilities. Includes aspects related to medical staff and personnel requirements such as licensing, certifying and accrediting agencies controls.
Prerequisite: HIT 114, with a grade of C or higher.

HIT 126
Clinical Coding/Classification Systems I
3 HOURS (2-2) SP
An introduction to various coding and classification systems used in healthcare. This course will focus on the current International Classification of Diseases (ICD) revision for acute care inpatient diagnosis and procedure coding. Laboratory practice time devoted to code assignment using computerized and manual methods.
Co-requisites: ALH 210 and BIO 320.
COURSE DESCRIPTIONS
2012-2013

Prerequisites: ALH 120, HIT 114, BIO 105 or equivalents, all with a grade of C or higher.

HIT 140
Clinical Coding Lab I
1 Hour (0-2) SU
In this laboratory course, students will have hands-on experience with encoder software for code assignment. Students will also further their clinical coding skills through case studies and health records exercises.
Prerequisites: ALH 120, HIT 114, BIO 105 or equivalents, all with a grade of C or higher.

HIT 142
Legal Aspects in Health Information
3 HOURS (3-0) SP
The student will evaluate health records for legal purposes. The Health Insurance Portability and Accountability Act (HIPAA) legislation is discussed with emphasis on privacy regulations. To provide a foundation in federal and state legislation regarding the release of health information, retention, authorizations, and consents. The importance of confidentiality and professional ethics will be emphasized.
Prerequisite: HIT 114.

HIT 233
Professional Practice Experience I
2 HOURS (1-5) SU
Practical and technical aspects of health information management (HIM) are introduced in a clinical setting under the supervision of HIM management. This experience provides the students with hands-on exposure to the various functions of HIM and the operational flow of the HIM department.
Prerequisites: ALH 210, HIT 142, HIT 126, CIS 104, CIS 106 and CIS 108 or equivalents, all with a grade of C or higher.
Co-requisite: HIT 140.

HIT 234
Clinical Coding/Classification Systems II
3 HOURS (3-0) SU*, FA
Introduction to coding using Current Procedural Technology (CPT) and Health Care Procedural Coding System (HCPCS) classifications with emphasis on the basic skills required to code medical services and procedures. This course is offered in a hybrid format utilizing online learning supplemented by classroom learning. Incorporates the use of web-based learning modules along with computer encoding experiences.
Prerequisites: ALH 210, HIT 126, and BIO 320 or equivalents, all with a grade of C or higher.

HIT 235
Medical Reimbursement
2 HOURS (2-0) SU
Students are introduced to basic reimbursement terminology and how validation of data collected, clinical coding systems, and various reimbursement methodologies are used for appropriate payment for inpatient and outpatient health care services. Prerequisite: Medical Coding Certificate* ALH 120, BIO 320, HIT 126, all with a grade of C or higher. Corequisite: HIT 234. *Pending approvals

**HIT 236**  
*Health Care Information Systems and Technology*  
3 HOURS (3-0) FA  
Theory and extensive overview of emerging trends in healthcare information technology is the focus of the course highlighted by speaker demonstrations. The role, purpose and use of health information system applications with emphasis on the electronic health record (E.H.R.) is emphasized. Discussion and demonstrations of this technology portray the project life cycle with emphasis on project management and analysis of processes vital to the field of the HIT professional. Issues related to data infrastructure, data security and HIPAA compliance are also introduced.  
Prerequisites: HIT 142, CIS 104, CIS 106 and CIS 108 or equivalents, all with a grade of C or higher.

**HIT 238**  
*Healthcare Registries and Statistics*  
3 HOURS (3-0) FA  
Introduction to healthcare data, vital statistics, indices and registries. Statistics related to health information, including calculation of rates and percentages. In-depth instruction in cancer registries. Manual and automated techniques of maintaining completeness, accuracy, and appropriateness of data and data sources.  
Prerequisites: HIT 114, CIS 104, CIS 106, CIS 108 or equivalents, all with a grade of C or higher.

**HIT 240**  
*Clinical Coding Lab II*  
1 HOUR (0-2) SP  
In this laboratory course, students will further develop their skills utilizing clinical classification systems using coding scenarios and case studies. Students will enhance their clinical analysis skills through inpatient and outpatient practice exercises.  
Prerequisites: HIT 140, 234, both with a grade of C or higher.

**HIT 243**  
*Clinical Quality Management*  
3 HOURS (3-0) FA  
Emphasis is on current philosophy and methodology in conducting an effective quality improvement, utilization review/case management program for a healthcare facility.
COURSE DESCRIPTIONS
2012-2013

Requirements of various governmental, third party payers and accreditation bodies regarding appropriate utilization of resources and continuous quality improvement will be included. Case studies and simulated chart reviews will be integrated in the course.
Prerequisites: HIT 114, CIS 104, CIS 106, CIS 108, or equivalents, all with a grade of C or higher.

HIT 244
Healthcare Data in Reimbursement
4 HOURS (4-0) SP
Theory and practice related to healthcare reimbursement using the current classification systems for diagnosis and procedure codes in healthcare settings. Emphasis will be on inpatient and outpatient prospective payment systems.
Prerequisites: HIT 120, HIT 142, HIT 140, HIT 238, HIT 234, or equivalents, all with a grade of C or higher.

HIT 245
Professional Practice Experience II
3 HOURS (2-5) SP
Practical and managerial aspects of health information management are emphasized with students demonstrating more advanced technical skills. Students are given a broader perspective of HIM and its use throughout various departments and health care settings through lecture, observation, and hands on experience.
Prerequisites: All 100 level Health Information Technology courses, HIT 238, HIT 233, HIT 234, 236 or equivalents, all with a grade of C or higher.

HIT 246
HIT Capstone Seminar
2 HOURS (2-0) SP
Overview of the managerial duties and responsibilities within the health information department, including principles of management, operational, human resource and financial management. Also included, opportunities for problem solving, discussion of current trends/topics related to the health information management profession and review for the RHIT examination.
Prerequisites: All 100 level Health Information Technology courses, HIT 233, HIT 234, HIT 236, HIT 238, and HIT 243 or equivalents, all with a grade of C or higher.

HST 200
Women in American History
3 HOURS (3-0) FA, SP, SU
This course examines the role of women in the United States from pre-contact cultures to the present (with special emphasis on the development of the suffrage and women’s rights movements).

HST 400
First Ladies
3 HOURS (3-0) FA, SP, SU
COURSE DESCRIPTIONS
2012-2013

This course examines the role of First Ladies from Martha Washington through Michelle Obama (with special emphasis on the development of the role and “unofficial” power inherent in the position).
Prerequisites: ENG 101 and ENG 102 or equivalent.

HUM 150
Spanish for the Healthcare Provider
1 HOUR (1-0) FA, SP, SU
This course is designed as a unique, interactive approach to learning Spanish, which leads to long-term recall ability within a few weeks. Topics will include basic phrases, conversation, medical vocabulary, patient communication for admitting, patient histories, lab testing, general and emergency visits, health and body parts and words and phrases used in other everyday workplace situations.

IDS 390
Your Professional Second Life: Mercy in a Virtual World
Virtual worlds are increasingly showing themselves to be important environments for business and education. The largest virtual global community is Second Life. Second Life is “A 3-D online digital world imagined and created by its residents.” This course involves critical exploration of the Second Life environment and society. Students will create virtual versions of themselves and participate in the design and construction of a virtual Mercy College campus.
Prerequisites: ENG 102, Sophomore Status (31 or more credit hours), Basic keyboarding.

IDS 399
Interdisciplinary Seminar
3 HOURS (3-0) SP
This course is designed to enhance and expand the interdisciplinary goals of the General Education division. As a Humanities requirement, the IDS courses foster a “life of the mind” that Mercy College advocates. Each course offering involves the integration of two or more disciplines, one drawn from the Liberal Arts, taught from at least two disciplinary perspectives. Courses vary by year and include such offerings as “Women and Social Justice”, “Patterns in Culture” and “Faith, Family, Marriage and Spirituality”.
Prerequisites: ENG 101 and ENG 102 or equivalent. In addition, IDS 399 courses are open only to bachelor of science degree seeking students or with written permission from instructor.

MTH 095
Math for Chemistry
1 HOUR (1-0)
This course is a refresher of specific math skills that will be needed in the CHM 110 course.

MTH 098
Basic Math
3 HOURS (3-0)
This course is designed to strengthen students’ basic mathematical skills. Includes a thorough review and practice of addition, subtraction, multiplication and division with whole numbers,
COURSE DESCRIPTIONS
2012-2013

fractions, decimals, and percents. Converting between fraction, decimal and percents is stressed. Solving ratio and proportion, the basic percent equation, and business and consumer applications, reading statistical graphs, converting units of measure, using rational numbers, and solving simple equations are also incorporated. This course does not meet graduation requirements. Placement scores are used to determine course enrollment. If a student is unsuccessful in a second enrollment, he/she will be dismissed from the College.

MTH 100
Basic Algebra
3 HOURS (3-0)
This course includes is a review of the fundamentals of algebra from signed numbers to the quadratic equations. The course uses the four mathematical operations with signed numbers and variable expressions; solving linear inequalities, and quadratic equations; applying the four mathematical operations to rational expressions and polynomials; factoring polynomials; graphing linear equations and inequalities; solving system of linear equations; and introduction to radicals and the quadratic formula. There is an emphasis on critical thinking problems and ratio and proportions problems as they relate to solving drug dosage problems.

MTH 102
Mathematics for Business
3 HOURS (3-0)
This course is designed to give practical, mathematical applications for today’s business world. It will give background financial information needed by those who plan to pursue managerial or supervisory positions in their related field. Payroll, taxes, simple and compound interest, inventory, annuities, loans, depreciation, income and balance sheets, financial ratios, and business statistics are covered. There is a strong emphasis on financial issues related to healthcare.

MTH 103
Mathematics for the Healthcare Professions
3 HOURS (3-0) SP
This is a course in problem solving and critical thinking that will also introduce and reinforce math concepts. Topics will include a variety of practical problems that can be modeled and solved by quantitative means. The mathematical content will include concepts that are used in the healthcare professions and in daily life including presentation and analysis of data, probability, and exponential growth. Not open to students with credit for MTH 104. Prerequisite: MTH 100 or equivalent with a grade of C or higher within the last seven years.

MTH 104
Mathematical Formulas, Models, and Probability
3 HOURS (3-0)
This course consists of five parts: a review of basic math and algebra needed for course work; higher level applications of basic concepts including dimensional analysis used in nursing classes; probability concepts needed for Statistics and life situations including combinations and
permutations; exponential and logarithmic equations as applied to financial and scientific calculations; and independent demonstration of critical thinking.
Prerequisite: MTH 100 or equivalent with a grade of C or higher within the last seven years.

MTH 106
College Algebra
3 HOURS (3-0)
This is a more advanced course in the study of algebra. Topics include: relations; functions; complex numbers; logarithms; solving linear, quadratic, and other higher degree equations and inequalities; graphing equations and functions; solving system of equations in two and three variables; using matrices and determinants; and sequences, series and probability. Modeling is emphasized. A Scientific Calculator is required.
Prerequisite: High school algebra or MTH 100 or equivalent with a grade of C or higher within the last seven years.

MTH 107
College Trigonometry
3 HOURS (3-0)
This course includes trigonometric functions of angles; graphs of the trig functions, trig identities, solving trig equations and triangles, the use vectors and complex numbers; and applications.
Prerequisite: MTH 106 or equivalent with a grade of C or higher within the last seven years.

MTH 150
Calculus
4 HOURS (4-0)
Differential and integral calculus including applications.
Prerequisite: High School: Algebra I and II and trigonometry or precalculus or an integrated sequence of advanced math courses; or MTH 106 or equivalent with a grade of C or higher within the last seven years.

MTH 310
Introduction to Statistics
3 HOURS (3-0)
This course provides an overview of tools for the analysis and interpretation of data. Topics include: use of normal distributions; tests of means, variances and proportions; analysis of variance and covariance models; correlation and regression; and non parametric analysis.
Prerequisite: Permission of instructor required, if MTH 104, or equivalent, not already completed.

MUS 101
Introduction to Music Appreciation
3 HOURS (3-0) FA, SP, SU
COURSE DESCRIPTIONS
2012-2013

An introduction to musical literature and its development from the Common Practice Period through the 20th Century. The course emphasizes important composers, compositions and stylistic traits that are universally recognized in western music.

MUS 301
The History of Rock and Roll
3 HOURS (3-0) FA, SP, SU
This course will enable students to trace the musical stylistic and societal impact of Rock and Roll music from its origins in the mid-Twentieth Century to the present day. Many of the American and British artists, innovators and industry names of the Rock music phenomenon will be discussed, as well as the music’s reflections on and reactions to events in our society. Musical styles discussed include Tin Pan Alley, Blues, Rhythm and Blues, Gospel, Rockabilly, Country and Western, and Jazz, and their contributions toward the many different stylistic subcategories that have emerged under the umbrella of Rock music.
Co-requisite or prerequisite: ENG 101 or equivalent.

MUS 311
History of Jazz
3 HOURS (3-0) FA, SP, SU
This course will enable students to trace the musical, stylistic and societal impact of Jazz music from its origins around 1900 in New Orleans to the present day. Many of the most important musical artists, composers, stylistic periods and stylistic subcategories that have emerged since the beginning of Jazz will be discussed.
Co-requisite or prerequisite: ENG 101 or equivalent.

Nursing Courses:
TD signifies Toledo day program
TE signifies Toledo evening program
Y signifies Youngstown Campus

NUR 105
Nursing Drugs and Solutions: A Dimensional Analysis Approach
1 HOUR (1-0) FA, SP, SU
Designed as an elective, supplemental course, Nursing 105 provides instruction and practice in basic mathematics and basic to advanced drug and solution calculations utilizing a dimensional analysis approach. Instruction will include faculty lecture, small group assignments, and individual homework. The course is offered over a five week period, mid semester.
Prerequisites: High School Algebra or MTH 100 or equivalent with a grade of C or higher within the last seven years.

NUR 110
Introduction to the Profession of Nursing
5 HOURS (3-6) FA (TD, TE, Y)
The initial course in the nursing curriculum is designed as an introduction to nursing
COURSE DESCRIPTIONS
2012-2013

through historical development and current trends. Students in this basic course examine the organizational framework of the nursing program with focus on Orem’s Self-Care Deficit Theory of Nursing. The concepts of the nursing process, Health/Illness Continuum, Teaching/Learning, Role of the Nurse, Scientific Rationale, Interpersonal Skills, Ethical/Legal Implications, and Basic Pharmacokinetics are discussed. The roles of the Associate Degree Nurse are examined in light of healthcare trends. The Nursing 110 course includes instruction and practice in basic care skills necessary to care for adult patients. A portion of the course involves independent study of medical terminology and drug/solutions. Skills include measurement, evaluation, and recording of vital signs; general hygiene; body mechanics; comfort and safety measures; physical assessment, and prevention of hazards of immobility. Concepts of sterile technique are presented with wound care and urinary catheterization. Practice hours are scheduled in the nursing skills lab. After successful completion of skill evaluation in the laboratory setting, the student is assigned to care for selected patients in the clinical area.

Corequisites: BIO 220, ENG 101, PSY 101 or equivalents.
Prerequisite: Admission to the Nursing Program.

NUR 112
Universal Self-care Requisites I
5 HOURS (3-6) SP (TD, TE, Y)
This course examines current trends in healthcare and the impact of managed care on the role of the nurse. Universal self-care requisite areas of balance between activity and rest, prevention of hazards to human life, functioning and well-being, maintaining sufficient intake of air, food, water and promoting social interaction are explored. Emphasis is on nursing interventions for rest and sleep promotion, fluid and electrolyte balance, ABG’s, inflammation, infection, care of patients with musculoskeletal disorders, immunity, and the perioperative experience. Skills include medication administration and peripheral intravenous therapy. Clinical practice complements theory presented.
Co-requisites: BIO 221, BIO 201, ENG 102.
Prerequisites: NUR 110, BIO 220, PSY 101, ENG 101, all with a grade of C or higher.

NUR 122
Universal Self-care Requisites II
4 HOURS (2-6) FA (TD, TE) SU (TD, Y)
The focus of this course is on developmental self-care requisites of the middle to older adult. Concepts, principles and therapeutic self-care demands of these developmental age groups are discussed. The universal self-care requisites of air, food, water, elimination processes, prevention of hazards and normalcy are reinforced throughout the course. Emphasis is on nursing interventions necessary to maintain health in patients with acute and/or chronic alterations in elimination and abnormal cellular proliferation. Skills include nasogastric/nasopharyngeal suctioning and intermittent/continuous tube feedings. Clinical practice complements theory presented.
Co-requisite: BIO 320.
Prerequisites: NUR 110, 112, BIO 220, 221, 201, PSY 101, ENG 101, 102, all with a grade of C or higher.

NUR 123
Integration of Self-Care Requisites I
3 HOURS (2-3) SU (TD, TE, Y)
The foci of this course include self-care agency, the developmental self-care requisites and the universal self-care requisites of solitude, social interaction and normalcy of individuals and groups. Emphasis is placed on the concepts and principles of the therapeutic relationship and mental health interventions. The legal, ethical, spiritual, social and cultural aspects of mental healthcare are examined. Clinical experiences are in acute care and community environments. Prerequisites: NUR 110, NUR 112, BIO 220, BIO 221, BIO 201, PSY 101, ENG 101, ENG 102, all with a grade of C or higher.

NUR 232
Integration of Self-Care Requisites II
5 HOURS (3-6) FA (TD, Y) SU (TD, TE)
This course includes the self-care agency of chronically ill patients both in the acute care and community setting. Universal self-care requisites and developmental requisites are explored in light of existing or newly diagnosed health deviations. Promoting the health and well being of these patients is done through the use of the nursing process, patient education and therapeutic communication. The legal, ethical, spiritual, social and cultural dimensions of chronic health deviations are examined. Clinical experiences are in acute care and community settings. Co-requisite: BIO 210, SOC 211.
Prerequisites: NUR 110, 112, 122, 123, BIO 320, all with a grade of C or higher.

NUR 233
Developmental Self-Care Requisites
4 HOURS (3-3) FA (TD, Y) SP (TD, TE)
This course focuses on life stages of childbearing and childrearing families. Concepts, principles and therapeutic self-care demands of these families are explored. Focus is on the developmental self-care requisites and health deviations of the individual patient and family. Self-care deficits and therapeutic nursing interventions of the obstetrical and pediatric patient are discussed with emphasis on health promotion. Promoting the health and well being of patients is accomplished through use of the nursing process, patient education, and therapeutic communication. Skills include newborn, child, antepartum, and postpartum assessments. Clinical experiences complement theory presented.
Prerequisites: NUR 110, 112, 122, 123, BIO 320, PSY 201, all with a grade of C or higher.

NUR 241
Integration of Self-Care Requisites III
8 HOURS (5-9) FA (TD, TE) SP (TD, Y)
This is the exit course in the curriculum and is designed to prepare the student for entry level nursing practice. The course focuses on the concepts, principles and skills necessary in the nursing management of acutely ill clients across the life span with multiple deficits. The clinical component focuses on the concepts, principles and skills necessary in the nursing management of acutely ill patients with multiple self care deficits. A key component is for the student to use critical thinking in the process of problem solving and decision making. Co-requisite: REL 301.
COURSE DESCRIPTIONS
2012-2013

Prerequisites: NUR 110, 112, 122, 123, 232, 233, BIO 201, 210, 320, PSY 201 and all first level courses, all with a grade of C or higher.

NUR 242
Transition to Practice
3 HOURS (1-6) FA (TD, TE) SP (TD, Y)
The theoretical content of the course includes an introduction to leadership/management concepts and styles, current issues affecting the delivery of nursing care, development of nurse agency and the role of manager of care, communication and group dynamics and the characteristics of healthcare systems. The student manages the nursing care of a group of clients, examines the dynamics of healthcare delivery and acts as a member of the healthcare team. This capstone course also offers a concentrated clinical practicum as the student’s last clinical experience in the nursing program.
Prerequisites: NUR 110, NUR 112, NUR 122, NUR 123, NUR 232, NUR 233, NUR 241, REL 301, and all first and second level courses, all with a grade of C or higher.

NUR 250
Nursing as a Discipline
3 HOURS (2-3) FA, SU
This course is designed as the initial course in the nursing curriculum and introduces nursing through historical development and current trends. The Conceptual Framework of the Nursing Program is discussed with emphasis on the Self-Care Deficit Theory of Nursing. Content includes communication skills, self-concept exploration, professional role, healthcare delivery systems, healthillness continuum, critical thinking behaviors, nursing process, and gerontological/lifespan issues. The roles of the baccalaureate nurse are examined in light of current healthcare trends. Clinical practice provides experiences to compliment the theories presented throughout the course.
Co-requisite: NUR 270.
Prerequisites: BIO 220, BIO 221, BIO 210, MTH 104, PSY 101, PSY 201 or equivalents, all with a grade of C or higher.

NUR 260
Foundation of Nursing Practice
5 HOURS (3-6) FA, SU
This course focuses on the steps of the Nursing Process as the methodology for delivery of nursing care and Self-Care Deficit Theory of Nursing as the organizational framework for health assessment. Emphasis includes the universal self-care requisites of activity/rest, elimination, prevention of hazards, solitude/social interaction and normalcy. Using the concepts of self-care, focus is also placed on basic nursing skills including hygiene and comfort measures. Clinical practice provides experiences to correspond with theory presented in the course.
Prerequisites: NUR 250, NUR 270, both with a grade of C or higher.

NUR 270
Nursing Health Assessment
3 HOURS (3-0) FA, SU
COURSE DESCRIPTIONS
2012-2013

This course emphasizes the dimensions of collecting data relevant to health status. It provides opportunities for learning to use the tools and skills of data assessment. This course explores the gender, physical, and cultural aspects of physical assessment.
Corequisites: NUR 250 for pre-licensure BSN students.
Prerequisites: BIO 220, BIO 221, both with a grade of C or higher.

NUR 280
Transitions
2 HOURS (2-0) FA
This course initiates the transition from associate degree or diploma based nursing practice to the baccalaureate degree nurse. Recurrent themes are philosophy of nursing, nursing theorists, critical thinking, application of nursing research, standards of practice, and continuity of care over time and setting.
Prerequisite: Enrolled in RN to BSN program.

NUR 290
Nursing Research
3 HOURS (3-0) SP
This course provides an introduction to concepts, issues and processes in nursing research. Emphasis is on the research role, critical analysis, and evaluation of published research in nursing practice.
Prerequisite: MTH 310 or equivalent with a grade of C or higher.

NUR 300
Residency for Distance Learning Program I
0.5 HOUR FA, SP
The Residency for Distance Learning Program I is designed to provide an overview of the distance learning program and the College’s course management software used to deliver courses. The course is intended to enhance students’ success by orienting them to strategies and resources for online learning as well as Mercy College policy and procedure. Students will be introduced to services provided by the College addressing academic, programmatic, and technical needs. The residency will also provide community building among cohort members and faculty who will interact via online coursework throughout their program of study.

NUR 310
Mental Health Nursing
3 HOURS (2-3) SP
Using Orem’s Self-Care Deficit Theory of Nursing, emphasis is placed on utilizing holistic nursing strategies for assessment, planning, and intervention to facilitate optimal mental health promotion and maintenance of individuals, families, and groups. Universal self-care requisites of normalcy, solitude/social interaction and prevention of hazards, as well as developmental self-care and health deviation self-care requisites guide clinical practice at adult psychiatric/mental health primary and community settings.
Prerequisite: NUR 260, with a grade of C or higher.

NUR 320
Clinical Nursing Therapeutics  
5 HOURS (3.5-4.5) FA  
This course focuses on caring for the adult patient in the universal self-care requisite areas of elimination, prevention of hazards, activity and rest, and air, food, water. Clinical practice will concentrate on the adult patient and complement concepts presented.  
Prerequisite: NUR 260, with a grade of C or higher.

NUR 330  
Gender Oriented Nursing Care  
2 HOURS (2-0) SP  
This course focuses on the universal self-care requisite areas of normalcy and prevention of hazards as well as the developmental and health deviation self-care requisites as they apply to human sexuality and reproduction. Using the concept self-care, the course will emphasize health maintenance and promotion for both males and females.  
Prerequisite: NUR 260, with a grade of C or higher.

NUR 331  
Gender Oriented Nursing Care  
2 HOURS (2-0) SP  
This course focuses on the universal self-care requisite areas of normalcy and prevention of hazards as well as the developmental and health deviation self-care requisites as they apply to human sexuality and reproduction. Using the concept self-care, the course will emphasize health maintenance and promotion for both males and females.  
Prerequisite: Enrolled in RN to BSN program.

NUR 340  
Maternal-Newborn Nursing  
4 HOURS (2.5-4.5) FA, SP  
This course focuses on universal self-care requisites, as well as developmental and health deviation self-care requisites as they relate to maternal-newborn nursing. Using the Self-Care Deficit Theory, the course emphasizes health promotion for the pregnant woman, newborn infant, and family unit. Standards of care unique to the maternity patient will be introduced. Clinical practice will correspond with theory and will include both acute care and community experiences.  
Prerequisite: NUR 260, with a grade of C or higher.

NUR 350  
Pediatric Nursing  
4 HOURS (2.5-4.5) FA, SP  
This course includes the nursing care of infants, children, and adolescents and their families in a variety of settings. The focus of the course is on health promotion and the provision of nursing care to patients utilizing the Self-Care Deficit Theory of Nursing. Emphasis will be placed on establishing a caring relationship between child, family, and nurse.  
Prerequisite: NUR 260, with a grade of C or higher.

NUR 360
Pharmacology in Nursing
4 HOURS (4-0) FA
This course provides the RN completion student with an introduction to pharmacological concepts. The nurse’s role in the safe administration of medications is the primary focus of the course. Drug therapy with an emphasis on nursing assessment, nursing implications and patient education is explored. The role of the nurse in light of ethical and legal issues and the influence of culture and age are examined. Drugs are studied in broad classifications using prototypes and the nursing process. Current trends in pharmacology are discussed.
Prerequisite: Enrolled in RN to BSN program, BIO 320, with a grade of C or higher.

NUR 361
Pharmacology in Nursing, Part I
2 HOURS (2-0) FA, SU
This course provides the student with a complete basis for the clinical application of pharmacologic principles to their role as a beginning generalist nurse. The student will explore mechanisms of drug action as it pertains to the nurse’s role in the safe administration of medication to the adult population. The nursing process is emphasized as a foundation for the nursing implications of drug therapy, appropriate patient and family education, and for clinical decision making for a variety of patients with various healthcare deficits. This course includes the appropriate administration of drugs in light of current trends in pharmacology, ethnicity, gender, gerontologic issues, pathologic and psychologic conditions. Drugs are studied in broad classifications and in part I the emphasis is on underlying concepts of drug therapy, the drugs used to treat conditions of the central nervous system, autonomic nervous system, and drugs for patients with endocrine system issues.
Prerequisites: All 200 level nursing courses, BIO 320, with a grade of C or higher.

NUR 362
Pharmacology in Nursing, Part II
2 HOURS (2-0) SP, SU
This course provides the student with a complete basis for the clinical application of pharmacologic principles to their role as a beginning generalist nurse. The student will explore mechanisms of drug action as it pertains to the nurse’s role in the safe administration of medication to the adult population. The nursing process is emphasized as a foundation for the nursing implications of drug therapy, appropriate patient and family education, and for clinical decision making for a variety of patients with various healthcare deficits. This course includes the appropriate administration of drugs in light of current trends in pharmacology, ethnicity, gender, gerontologic issues, pathologic and psychologic conditions. Drugs are studied in broad classifications and in part II the emphasis is on drugs used to treat patients with gastrointestinal issues, drugs used to treat infections, drugs for patients with respiratory conditions, drugs used for patients with cardiovascular problems, and patients with special conditions.
Prerequisites: All 200 level nursing courses, BIO 320, NUR 361, all with a grade of C or higher.

NUR 401
Residency for Distance Learning Program II
0.5 HOUR (0.5-0) FA, SP
COURSE DESCRIPTIONS
2012-2013

The Residency for Distance Learning Program II is designed to provide an opportunity for students to come together, prior to graduation. This course will include capstone project presentations, program assessments, and informational sessions pertaining to graduation. Co-requisite: NUR 441, NUR 451, NUR 471, all with a grade of C or higher. Prerequisites: NUR 360, NUR 431, both with a grade of C or higher.

NUR 410
Adult Health I
5 HOURS (3-6) FA
This course focuses on the care of middle/geriatric patients and their families who are experiencing self-care deficits related to alterations in air, food, water, elimination, activity and rest, and prevention of hazards. Health deviation self-care requisites in the areas of gas exchange and respiratory function, cardiovascular and circulatory function are the major emphasis. The promotion of health and well-being through patient education as well as legal, ethical, spiritual and cultural concepts are explored as part of the holistic approach to the care of patients and families. Prerequisite: Completion of 300 level NUR courses, all with a grade of C or higher.

NUR 420
Adult Health II
5 HOURS (3-6) FA
This course focuses on the care of middle/geriatric patients and their families who are experiencing self-care deficits related to alterations in air, food, water, elimination, activity and rest and prevention of hazards. Health deviation self-care requisites in the areas of renal, immunologic, hematologic, integumentary and neurologic function, as well as multiple system problems are the major emphasis. Emphasis is also placed on synthesizing knowledge and managing care for patients with complex and multi-system health issues. The promotion of health and well being through patient education, as well as, legal ethical, spiritual and cultural concepts are explored as part of the holistic approach to the care of patients and families. Prerequisite: Completion of 300 level NUR courses, NUR 410, all with a grade of C or higher.

NUR 430
Community Health Nursing
4 HOURS (2.5-4.5) FA
This course is designed to give the student opportunity for experiences in population based nursing practiced in a variety of community settings including parishes, schools, industrial sites, health departments, and home healthcare. The student will study the unique needs of their selected population while partnered with a nurse preceptor in the community setting. Knowledge of nursing science influenced by Orem’s Self-Care Deficit Theory of Nursing is applied in the promotion of health and prevention of disease. In addition, the concept of philanthropy is explored while service learning experience is completed. Co-requisites: NUR 410, NUR 420. Prerequisites: 200 & 300 level nursing courses, all with a grade of C or higher.

NUR 431
Community Health Nursing
4 Hours (2.5-4.5) FA
This course is designed to give the registered nurse (RN) student learning opportunities in population-based nursing through investigation of a variety of community settings including parishes, schools, industrial sites, health departments, and home healthcare. The RN student will study the unique needs of selected populations as influenced by community health and common community health problems. Knowledge of nursing science influenced by Orem’s Self-Care Deficit Theory of Nursing is applied in the promotion of health and prevention of disease. In addition, the concept of philanthropy is explored while service learning experience is completed. Prerequisites: Required 200 & 300 level nursing courses, Registered Nurse licensure, acceptance into the BSN Completion Program, all with a grade of C or higher.

NUR 440
Nursing Management
5 HOURS (2-9) SP
This course is an introduction to the management functions and leadership principles that affect the practice of professional nursing. The student will explore key management components and leadership theories necessary for nursing care delivery in the 21st century. The focus of this course is on principles of leadership, delegation, group process, communication, healthcare delivery, power and politics, financial and staffing issues, quality control and change theory. The clinical component focuses on incorporating the key management concepts into daily clinical practice and producing positive outcomes for patients with a variety of self-care deficits. Prerequisites: All 200 & 300 level nursing courses; NUR 410, NUR 420, all with a grade of C or higher.

NUR 441
Nursing Management
5 HOURS (2-9) SP
The nursing management course builds on past knowledge of leadership roles and management functions. The nurse will further explore key management components and leadership theories necessary for nursing care delivery in the 21st century. The coursework focuses on theory and application concepts of planning, organizing, staffing, leading, and managing in nursing practice. A project component focuses on incorporating the key management concepts into daily clinical practice and producing positive outcomes for clients with a variety of self-care deficits. Prerequisites: All required 200 & 300 level nursing courses, NUR 431, Registered Nurse Licensure, acceptance into the BSN Completion Program, all with a grade of C or higher.

NUR 450
Practicum: Selected Patient Population
3 HOURS (0-9) SP
This course focuses on an individualized clinical practicum planned on the basis of the student’s interests and goals with emphasis on gaining knowledge and skill of the professional nurse role in a clinical setting. Prerequisites: NUR 410, NUR 420, both with a grade of C or higher.

NUR 451
Capstone Experience (RN-BSN)
COURSE DESCRIPTIONS
2012-2013

3 HOURS (1-6) SP
In this course, the RN student is given the opportunity to synthesize and utilize knowledge and skills gained throughout the RN-BSN program of study. Using Orem’s Self-Care Deficit Theory, concepts of leadership and management, communication, research, evidence-based practice and critical thinking, the student will complete a project related to professional nursing practice. This project is designed in collaboration with a faculty member and preceptor to meet the student’s individual professional goals.
Prerequisites: Required 200 & 300 level nursing courses, NUR 431, all with a grade of C or higher. Registered Nurse Licensure, acceptance into the BSN Completion Program.

NUR 472
Trends and Issues
2 HOURS (2-0) SP
This course will explore the current trends and issues that influence professional nursing practice. The student will examine aspects of career management, professional development, nursing image, legal and ethical issues, complementary and alternative health practices, evidenced based practice, nursing informatics, and societal trends in healthcare. The transition of student to beginning professional generalist nurse is examined to identify stressors and coping strategies. The student will have the opportunity to enhance and articulate their professional philosophy of nursing.
Prerequisites: NUR 410, NUR 420, both with a grade of C or higher.

NUR 471
Trends and Issues
3 HOURS (3-0) SP
This course addresses the Nursing Profession, the Environment and Nursing Practice, the Person in Health Care, and Health and Nursing issues. The essentials of information given are intended to provide the nurse with the necessary details to think critically about issues and trends in nursing, engage in relationships with clients within an informed context of the issues and their environment, and create therapeutic plans to improve health outcomes.
Prerequisites: All required 200 & 300 level nursing courses, NUR 431, all with a grade of C or higher, Registered Nurse Licensure, acceptance into the BSN Completion Program.

NUR 480
NCLEX-RN Preparation Course
1 HOUR (1-0) SP
This course is designed to prepare the student for taking the NCLEX-RN Examination. The emphasis of the course is to assist the student in planning for success on the NCLEX-RN Exam. The course includes strategies for coping with test anxiety, improving test taking skills, building confidence and creating a focused individual study plan in preparation for taking the NCLEX-RN Exam.
Prerequisite: Nursing Senior Status.

NUR 490
BSN Senior Seminar
1 HOUR (1-0) SP
In this seminar course we will actively study and participate in simulation activities that will assist the student nurses in his/her preparation for the professional role. The course will occur in seminar format for two days. During the seminar the students will develop a resume, participate in mock interviews, learn how to dress in proper business attire, practice business communication in the spoken, written and electronic form, practice dining etiquette, create a professional portfolio, and prepare an action plan for the remainder of the senior year. Prerequisite: NUR 410 and NUR 420, both with a grade of C or higher.

PDC 101
Self-Defense/Mixed Martial Arts
1 hour (0-2)
Fitness, self-defense, and mental discipline are the purpose of Martial Arts. This class is designed to synergistically strengthen the student in all three areas. The class is taught in the tradition of the past, but with techniques and self-defense applications of the present. It is an adaptive style of Yuchia Kung-Fu, Muay Thai Kickboxing and Brazilian Jiu-Jitsu, along with techniques from various other disciplines. Any level of physical fitness or flexibility is appropriate as the class is designed for each individual to practice at his/her own level.

PDC 110
Adult Ballet
1 HOUR (0-2)
Introduction to beginning techniques of ballet for beginners or prior dancers who want to revisit the basics.

PDC 120
Stress Management
1 HOUR (0-2)
This course focuses on teaching students a wide variety of lifelong stress management techniques. Students will explore current coping strategies, and will learn to identify, as well as employ, healthier strategies for disease prevention and coping with stress. A holistic approach will be taken; therefore, students can expect to be working on the mind, the body and the spirit.

PDC 130
Zumba
1 hour (0-2)
Zumba is a dance fitness class which combines Latin and international music to make fitness fun. Music creates specific beats and tempo changes to transition the workout from one toning, strengthening and cardio move to another. Zumba targets every major muscle group in the body. Students will be assessed by attendance and participation, as well as how they perform the various techniques and moves learned during the class.

PDC 132
ZUMBA II
1 HOUR (0-2)
Zumba II is a continuation of Zumba I (PDC 130); a dance fitness class that combines Latin and other international music in choreographed dances. This advanced class builds cardiovascular
endurance, muscle tone, creativity, memory, coordination, and balance. Students learn complex
dance sequences, building on content that was learned in Zumba I. Students will be assessed by
choreographing and performing their own dance routine.
Prerequisites: PDC 130 or permission of instructor (Previous Zumba experience must be
documented).

PDC 140
Stability Ball Exercise Class
1 hour (0-2)
The Stability Ball class focuses on core body strength and endurance through the use of a
stability ball, as well as improving posture, balance and coordination. Students will be
assessed by attendance and participation, as well as how they perform the various techniques and
moves learned during the class.

PDC 201
Beginning Yoga
1 HOUR (0-2)
This course is designed for students who are interested in learning beginning yoga practice.
Yoga focuses on improved physical fitness, mental clarity, greater self-understanding, stress
control and general well-being. Any level of physical fitness or flexibility is suitable to enjoy
the benefits of yoga practice. Students will be required to wear comfortable clothing to class,
and bring a firm mat and water.

PDC 211
Beginning Pilates
1 HOUR (0-2)
This course is designed for students who are interested in learning techniques for total body
conditioning, toning, strengthening, increased flexibility, and stress management. Physical
benefits are a flatter stomach, stronger back, improved muscle tone and better posture. This is a
total body conditioning class. Students will be required to wear comfortable clothing to class,
bring a firm mat and water.

PDC 221
Total Body Conditioning
1 HOUR (0-2)
This course is designed for students who are interested in learning techniques for total body
conditioning, toning, strengthening, increased flexibility and stress management. Physical
benefits are a flatter stomach, stronger back, improved muscle tone and better posture. This is a
total body conditioning class where students work on a mat and with light weights. Students will
be required to wear comfortable clothing to class, bring a firm mat, light weights and water.

PDC 231
Cardio Kickboxing
1 HOUR (0-2)
This course is designed for students who are interested in learning techniques for kickboxing,
toning, strengthening, increased flexibility, and stress management. Physical benefits are a
stronger core, improved muscle tone, improved balance, and better posture. This is a cardio kickboxing workout that combines elements of boxing, martial arts techniques with heart pumping cardio, which means you can get a total body workout and get yourself into shape in no time. Students will be required to wear workout clothing to class, bring a firm mat, wear cross training shoes (no running shoes), light weights or toning band and water.

PDC 251
*Running for Beginners*
1 Hour (0-2) FA, SP, SU
This course is designed for students who are interested in exploring running as a physical activity. No prior experience with running is required. Proper stretching and running technique will be emphasized, as well as discussion of appropriate running gear and different options for training plans. The physical and mental benefits of running as a lifelong learning activity will also be discussed.

PDC 310
*Games of Strategy or Chance*
1 HOUR (0-2)
This course is designed to teach students games of strategy and chance that they may share with friends and family. This course will include games from various times and places and variations on familiar games.
Prerequisite: Students who have completed MTH 104 may also register for PDC 310 as a 2 hour class in which they will analyze strategies for games of strategy and calculate probabilities for games of chance.

PHS 210
*College Physics I*
5 HOURS (4-3)
Includes in-depth algebra and trigonometry based presentation of physics, emphasizing physical principles, problem solving and laboratory experiences. Involves a study of translational and angular kinematics, forces, impulse-momentum, fluids and heat. Three hour lecture, three hour lab, one hour problem solving and quiz session.
Prerequisites: High school algebra.
Corequisite: MTH 106 or MTH 150 or equivalent.

PHS 211
*College Physics II*
5 HOURS (4-3)
Continues the topics of PHS 210, includes an in-depth, algebra and trigonometry-based presentation of physics, emphasizing physical principles, problem solving and laboratory experiences. Involves a study of electricity, magnetism, waves, sound and atomic physics. Three hour lecture, three hour lab, one hour problem solving and quiz session.
Prerequisite: PHS 210 or equivalent.

PSG 101
*Fundamentals of Sleep*
This course emphasizes the biological and neurological systems that control sleep and wake in humans, the development of sleep over the life cycle, the function of sleep, consequences of sleep deprivation, and the various pathologies that lead to sleep disorders. The course will also address the process, function, and content of dreaming from a neurological and psychological perspective.

Co-requisites: BIO 103 or equivalent.

**PSG 102**

*Essentials of Polysomnographic Technology*

3 HOURS (2-2) SP

This course will cover the basic duties of a PSG technologist beginning with patient preparation, monitoring, and completing a sleep study. Additional focus will be given to issues concerning: professionalism, ethical behavior, patient safety, confidentiality, safety, and infection control. This course also contains mandatory lab time. Lab time will contain specific instruction on patient hookup, monitoring and quality control. During this time, the 10-20 placement of EEG sensors as well as basic EMG, EKG, and respiratory sensor placement will be covered. In depth instruction on patient monitoring, trouble-shooting and responding to medical emergencies will also be covered during the lab portion.

Co-requisites: BIO 103 or equivalent.

**PSG 110**

*Polysomnography Analysis*

3 HOURS (1-4) SU

This is a course on scoring adult and pediatric PSGs including staging, respiratory events, periodic limb movements, artifact recognition, and atypical PSG activity. Protocols for PSG report generation, as well as MSLT and MWT reports will be covered.

Prerequisites: PSG 101, PSG 102.

**PSG 111**

*Respiratory Monitoring*

3 HOURS (2-2) SU

This course will review basic respiratory physiology as well as monitoring techniques used during the PSG. The basic electrical/mechanical principles of respiratory monitoring equipment will be presented. The second part of the course will deal specifically with Positive Airway Pressure titrations and modalities (e.g. CPAP, BPAP, BPAP ST, and Adaptive Ventilation) and PSG oxygen titration.

Prerequisites: PSG 101, PSG 102, BIO 103.

**PSG 112**

*Polysomnographic Practicum I*

2 HOURS (0-6) SU

Students will review orders, history and physical characteristics of patients, conduct patient assessments and orientations, organize PSG equipment, perform hook up procedures, calibrate PSG equipment, perform documentation and monitoring, and participate in event recognition.

Prerequisites: BIO 103, PSG 101, PSG 102, PSG 110, PSG 111.
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PSG 122
Polysomnographic Practicum II
4 HOURS (0-12) FA
Students will review orders, history and physical characteristics of patients, conduct patient assessments and orientations, organize PSG equipment, perform hook up procedures, calibrate PSG equipment, perform documentation and monitoring, and participate in event recognition. Students will also gain hands on experience in the following areas: PAP training, titration and end of study procedures.
Co-requisites: PSG 123, PSG 124.
Prerequisites: PSG 101, PSG 102, PSG 110, PSG 111, PSG 112.

PSG 123
Advanced Topics in Polysomnographic Technology
3 HOURS (3-0) FA
This course is divided into three primary categories: 1) Advanced Assessment of sleep disorders; 2) Pediatric Sleep and Polysomnography; and 3) Therapeutics and Interventions for Sleep Disorders. From a technical perspective, the course broadens the student’s skill set to include alternative testing conducted in a Sleep Center beyond a standard PSG, and extends their skills into the area of sleep studies with children. The last section of the course moves beyond the diagnostics of sleep, and into the treatment phase of sleep services.
Prerequisites: PSG 101, PSG 102, PSG 110, PSG 111.

PSG 124
Polysomnographic Technology Capstone Seminar
2HOURS (2-0) FA
This course explores a variety of concepts focusing on professional aspects of a Polysomnographic Technologist. Topics such as certification and continuing education, values, personal excellence, self-assessment, discussion of current trends and case studies, and the overall promotion of the field of Sleep Medicine will be addressed.
Corequisites: PSG 123, PSG 122.
Prerequisites: PSG 101, PSG 102, PSG 110, PSG 111, PSG 112.

PSY 101
Introduction to Psychology
3 HOURS (3-0) FA, SP, SU
This introductory course includes a survey of the various fields of study comprising modern scientific psychology. It examines the theories, basic research findings and applications in each of the major areas of psychology. The course utilizes a scientific perspective in examining the different processes that govern psychological phenomena and behavior. Some of the topics covered are the biological basis of behavior, perception, learning and thinking, memory, personality and psychopathology.

PSY 201
Lifespan Psychology
3 HOURS (3-0) FA, SP, SU
This course is designed to examine the scientific knowledge of human development as it unfolds across the lifespan from birth to old age. The major developmental theories and research findings are explored providing insight and understanding of the biological, cognitive and social factors associated with development. Central themes of the course focus on physical, cognitive and psychosocial development of the individual.

**PSY 280**
*Independent Study*
1-5 HOURS (1-5-0) On demand
Supervised independent work in psychology designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.
Prerequisite: PSY 101 or equivalent.

**PSY 320**
*Social Psychology*
3 HOURS (3-0) On demand
This course addresses the various ways that people think about, influence, and relate to one another. Major research findings regarding the self, attitudes, gender, social influence, prejudice and stereotyping, altruism and aggression, and interpersonal relationships are explored. The application of course material is emphasized through student-conducted research and the study of how social psychology is used in settings such as the clinic and the courtroom.
Prerequisite: PSY 101 or equivalent or permission of the instructor.

**PSY 340**
*Abnormal Psychology*
3 HOURS (3-0) On demand
This course examines the major behavioral, cognitive, developmental, and emotional disorders from a scientific perspective. The areas covered include symptomatology, assessment, causes and treatment methods. Both historical and current views of the definition and treatment of mental illness are explored as are ethical and legal issues relating to mental illness. Topics include personality, anxiety, mood, schizophrenia and eating disorders.
Prerequisite: PSY 101 or equivalent or permission of the instructor.

**PSY 350**
*Interpersonal Relationships*
3 HOURS (3-0) On demand
This course will introduce the student to the foundations of interpersonal relationships. The major focus will be on the application of the principles of cultivating and maintaining healthy relationships with others. Topics include attraction, communication, friendship, love, power and conflict resolution.
Prerequisite: PSY 101 or equivalent.

**PSY 360**
*Industrial/Organizational Psychology*
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3 HOURS (3-0) On demand
Examines aspects of psychology that can be applied in the workplace. Topics will include job stress, personnel selection, training, organizational change, conflict resolution and professional development. Emphasis will be placed on applying course concepts to life situations.
Prerequisite: PSY 101 or equivalent or permission of the instructor.

PSY 380
Behavior Modification
3 HOURS (3-0) On demand
This course provides an introduction to advanced behavioral modification techniques for use in applied settings such as hospital, schools, and business and industry. The major focus of this course will be on the application of classical and operant conditioning principles for the purpose of identification of behavioral contingencies, the implementation of behavior modification programs, and program assessments.
Prerequisite: PSY 101 or equivalent or permission of the instructor.

RAD 101
Foundations in Radiography
3 HOURS (3-0) FA
This course is designed to give students professional skills to build on throughout the remainder of their careers. An emphasis will be placed on professional deportment as it relates to interactions in a radiology department. A focus will be placed on management of the patient in the diagnostic radiology imaging process. In addition to patient care skills, other topics will include: an overview of radiologic technology, ethical and legal issues, an introduction to the clinical environment, environmental precaution, basic radiation protection, as well as an introduction to radiographic equipment.
Prerequisite: Admittance to the program.

RAD 110
Principles and Techniques in Radiography
5 HOURS (3-4) FA
This course is designed to develop the theory and practice of radiologic technology. The course will cover the principles and practice of radiographic imaging, including: radiographic distortion, radiographic contrast and density, exposure factors, control of scattered radiation, factors affecting recorded detail, radiographic techniques and radiographic math. The student will also learn basic positioning techniques for the chest, abdomen, upper and lower extremities, and the gastrointestinal tract, as well as image critique and evaluation.
Prerequisite: Admittance to the program.

RAD 111
Radiology Practicum I
2 HOURS (0-14) FA
This course will introduce the student to the clinical environment. The student will gain familiarity with the operations of a radiology department and begin to correlate theory to practice as it relates to positioning techniques. The student will have the opportunity to observe instructors and preceptors in the performance of radiological exams in various clinical areas. The
development of communication skills, clerical skills and an introduction to the Radiology Information System will be taught.
Prerequisite: Admission to the program.

**RAD 120**  
*Basic Principles of Radiography*  
5 HOURS (3-4) SP  
This course will continue to develop the theory and practice of radiologic technology taught in RAD 110. In addition, the student will learn basic positioning techniques for the vertebral column, pelvic and shoulder girdles, bony thorax and the excretory system, reproductive system and accessory digestive organs, as well as image critique and evaluation. Basic pharmacology and radiographic contrast media will be discussed. Radiographic pathology of the skeletal, respiratory, digestive, excretory and reproductive systems will be taught, as well as pathology of the biliary tree. Adjustments of radiographic technique for additive and subtractive pathologies will be emphasized. Special projects will aid in developing communication and critical thinking skills. A written presentation of a radiographic case will be required.
Prerequisite: BIO 220, RAD 101, RAD 110 and RAD 111, all with a grade of C or higher.

**RAD 121**  
*Radiology Practicum II*  
2 HOURS (0-14) SP  
This course is designed to continue building the practical applications of radiologic technology in a clinical setting under the guidance of qualified instructors and preceptors. Clinical aspects of patient care, radiographic positioning and techniques, and operation of radiographic equipment will be emphasized under appropriate levels of supervision. Students will be placed in areas in the radiology department which complement the focus of didactic learning. Students will be given opportunities to perform clinical clearances on the list of required competencies.
Prerequisite: BIO 220, RAD 101, RAD 110 and RAD 111, all with a grade of C or higher.

**RAD 130**  
*Intermediate Principles of Radiography*  
2 HOURS (1-2) SU  
The student will focus on radiographic positioning of the skull, facial bones and sinuses, learning to correlate anatomy to radiographic projections. Radiographic principles for pediatric and geriatric patients will be addressed as well as portable surgical and trauma radiography. Sterile asepsis and sterile technique as applied to radiography will be taught. A portion of this course will be devoted to examining legal and ethical issues presented.
Prerequisite: ALH 120, BIO 221, RAD 120 and RAD 121, all with a grade of C or higher.

**RAD 131**  
*Radiology Practicum III*  
2 HOURS (0-14) SU  
This course is designed to continue building on the applications of radiologic technology learned in the two previous clinical practicums. Students will be encouraged to manage cases independently with indirect supervision after they complete clinical competencies. Emphasis will be placed on further development of psychomotor skills. Students will be placed in clinical areas
of the radiology department which complement the focus of didactic learning. There will be additional opportunities to perform clinical clearances from the list of required competencies. Prerequisite: ALH 120, BIO 221, RAD 120 and RAD 121, all with a grade of C or higher.

**RAD 205**
*Radiologic Science*
2 HOURS (2-0) FA
This course will cover the basic principles of atomic structure, electromagnetic radiation electricity, magnetism and electromagnetism. The student will begin with an overview of the basic laws of physics and progress to more advanced concepts which apply these laws to the operation of x-ray equipment. A study of the production of the x-ray beam and transformers, along with tube and machine circuitry, will help the student develop the correlation of theory and practice. Also, the student will learn to read tube rating charts. Prerequisite: RAD 130 and RAD 131, both with a grade of C or higher.

**RAD 215**
*Radiation Biology*
2 HOURS (2-0) SP
This course will present the effects of ionizing radiation on the human body. The biologic effects of radiation, both long and short term, along with risk assessment will be covered. The protection of self, the patient, the patient’s family and the entire healthcare team will be a major focus of this course. Radiation monitoring devices and current federal radiation regulations will be included. Prerequisite: RAD 205, RAD 240 and RAD 241, all with a grade of C or higher.

**RAD 240**
*Advanced Radiographic Imaging*
2 HOURS (1-2) FA
This course is designed to study routine special imaging procedures in detail, as well as, cross sectional anatomy. Advanced principles of imaging equipment will be featured, as well as, the uses of computers, digital Imaging and PACS in radiologic sciences. In addition, this course will also cover the principles of quality assurance and quality control as applied to radiologic technology. The use of case studies will aid in the development of critical thinking skills. Prerequisite: RAD 130 and RAD 131, both with a grade of C or higher.

**RAD 241**
*Radiology Practicum IV*
3 HOURS (0-21) FA
The student will begin to focus on the areas of surgery and cystoscopy. Other clinical rotations will continue to reinforce the experiences gained from the previous Radiology Practicums. The student will be encouraged to further develop technical skills by working more frequently with indirect supervision once additional competencies are documented. Focus will be placed on an increased ability to evaluate finished radiographs for quality. Prerequisite: RAD 130 and RAD 131, both with a grade of C or higher.

**RAD 250**
Specialty Imaging in Radiography
2 HOURS (1-2) SP
This course is designed to familiarize the student with advanced imaging modalities, such as, computerized tomography, magnetic resonance imaging, sonography, nuclear medicine, interventional radiography, cardiovascular imaging and others. Special radiographic projections of the body will be featured also. The student will continue to hone critical thinking skills through participation in case studies. A test from the St. Catherine’s Developmental Testing Program for Radiography will be administered monthly.
Prerequisite: RAD 205, RAD 240 and RAD 241, all with a grade of C or higher.

RAD 251
Radiology Practicum V
3 HOURS (0-21) SP
The student will rotate through specialty clinical areas where the use of advanced technology and cross-sectional imaging techniques will be demonstrated. The student will learn by a combination of observation and direct participation at an appropriate level. More advance patient care skills will be reinforced in the clinical environment.
Prerequisite: RAD 205, RAD 240 and RAD 241, all with a grade of C or higher.

RAD 260
Transition to Practice
3 HOURS (3-0) SU
This course is designed to serve as a comprehensive review prior to sitting for the American Registry of Radiologic Technologist exam. Through lectures, discussion, projects, review sessions and St. Catherine’s Developmental Tests, the student will identify areas of content that need reinforcement. A section of this course will be devoted to resume writing, interview skills, professional leadership and success.
Prerequisite: RAD 215, RAD 250 and RAD 251, all with a grade of C or higher.

RAD 261
Radiology Practicum VI
3 HOURS (0-21) SU
The student will focus on developing more confidence and independence in this final clinical practicum. Emphasis will be placed on the ability to work quickly, accurately, and on demonstrating a high level of clinical competence. The student will be given additional opportunities to work in clinical areas where more experience is needed or desired. All competencies must be completed prior to graduation.
Prerequisite: RAD 215, RAD 250 and RAD 251, all with a grade of C or higher.

RAD 300
Residency for Distance Learning Program I
0.5 HOUR (0.5-0) FA
The Residency for Distance Learning Program I is designed to provide an overview of the distance learning program and the College course management software used to deliver courses. The course is intended to enhance student success by orienting them to strategies and resources for online learning, as well as Mercy College policies and procedures. Through this course,
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students will be introduced to services provided by the College addressing academic, programmatic and technical needs. The residency will also provide community building among cohort members and faculty who will interact via coursework throughout their program of study. Prerequisites: Acceptance to the Bachelor of Science in Medical Imaging completion degree online program.

RAD 305
PACS and Digital Applications
3 HOURS (3-0) FA
This course will present picture archiving and communication systems (PACS), computed radiography (CR), direct digital radiography (DR), networking fundamentals and digital imaging and communications in medicine (DICOM) standard. Topics include comparison of computer-based records to traditional film records, teleradiology and Radiology Information Systems (RIS). The acquisition process of a PACS, medical-legal issues, productivity, image compression and image storage are examined.
Prerequisites: Admittance to the program.

RAD 310
Sectional Anatomy for Medical Imaging
3 HOURS (3-0) FA
This course is a study of human anatomy as viewed in sectional planes. Gross anatomical structures will be located and identified in axial (transverse), sagittal, coronal and orthogonal (oblique) planes. The characteristic appearance of each anatomical structure as it appears on computed tomography (CT) and magnetic resonance imaging (MRI) will be stressed. Studies include the head, brain, neck, chest, abdomen, spine, pelvis and extremities.
Prerequisites: Admittance to the program.

RAD 320
Advanced Patient Care for Medical Imaging
3 HOURS (3-0) FA
This course focuses on advanced aspects of patient education, assessment, communication and modality specific patient care. Common pathologic conditions seen in computed tomography (CT) and magnetic resonance imaging (MRI) will also be discussed.
Prerequisites: RAD 310, with a grade of C or higher.

RAD 330
Principles of Computed Tomography
3 HOURS (3-0) SP
This course explores physical principles and instrumentation associated with computed tomography (CT). Computer technology, system components, image characteristics and quality control methods are introduced. Topics will include methods of data acquisition and manipulation, CT systems and operations, and image processing and display.
Prerequisites: Admittance to the program.

RAD 340
Computed Tomography Applications
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3 HOURS (3-0) SP
This course is designed to provide detailed coverage of procedures for computed tomography (CT) imaging. Imaging protocols for the head, neck, chest, abdomen, pelvis, and spine will be discussed. Topics include indications for the procedure, patient education, preparation, orientation and positioning, patient history and assessment, contrast media usage, scout image and selectable scan parameters.
Prerequisites: RAD 330 and RAD 320, both with a grade of C or higher.

RAD 401
Residency for Distance Learning Program II
0.5 HOUR (0.5-0) SP
The Residency for Distance Learning Program II is designed to provide an opportunity for students to come together prior to graduating. This course will include program assessment and informational sessions pertaining to graduation and future career opportunities. Course must be taken in the same semester as expected graduation.

RAD 405
Principles of Quality Management
3 HOURS (3-0) SU
This course will present quality control and quality assurance programs used in medical imaging departments. Topics will include quality management aspects of darkrooms, processing equipment, fluoroscopic equipment and digital imaging equipment. Federal guidelines regulating quality control are also addressed.
Prerequisites: Admittance to the program.

RAD 415
Research Methods and Information Literacy
3 HOURS (3-0) FA
This course is an introduction to methods and techniques of research in the radiologic sciences. Topics include basic terminology of research, qualitative and quantitative methods, fundamental research designs, and data analysis techniques. Analysis and evaluation of research reports/studies as they apply to medical imaging are also addressed.
Prerequisites: At least 9 credit hours of 300/400 level RAD courses must be completed before attempting this course.

RAD 430
Principles of Magnetic Resonance Imaging
3 HOURS (3-0) SP
This course will familiarize the student with physical principles and theories of magnetic resonance, instrumentation, imaging sequences and computer parameters of magnetic resonance imaging. Topics include image formation, artifact production, volume imaging and multiplanar reconstruction.
Prerequisites: Admittance to the program.

RAD 431
Computed Tomography Practicum
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1-3 HOURS (0-(7-21)) FA, SP, SU
This course provides the opportunity to develop required competencies for advance certification in computed tomography (CT). Students will be given opportunities to perform clinical repetitions on the list of required examinations under the supervision of qualified instructors and preceptors. This course is repeatable for a maximum of 9 credit hours.
Prerequisites: BSMI students must have completed a minimum of 24 credit hours in the program curriculum and have approval of the Program Chair.

RAD 440
Magnetic Resonance Imaging Applications
3 HOURS (3-0) SP
This course is designed to provide a functional understanding of MRI procedures. Imaging protocols for the central nervous system, musculoskeletal system, thorax, and abdomen/pelvis will be discussed. Topics include indications for the procedure, patient education, preparation, patient screening, contrast media usage, and special procedures.
Prerequisites: RAD 430 and RAD 320, both with a grade of C or higher.

RAD 480
Medical Imaging Capstone
3 HOURS (3-0) SU
In this course, students will integrate the various topics within the curriculum focusing on current developments in the medical imaging field such as healthcare costs, teleradiology, radiation exposure concerns, changing patient demographics, rapid technological innovation, etc. This course must be taken in the same semester as expected graduation.

REL 101
Foundations of Faith and Religion
3 HOURS (3-0) FA, SP, SU
This course is an examination of faith, religion, and theology. Topics will include individual faith development, definitions of “religion,” an introduction to Christian beliefs and theology, an introduction to Scripture, a brief survey of world religions, and issues in religion such as social justice, suffering and ecology. This course will serve as a religious basis for students in dealing with religion and faith concepts.

REL 204
Spirituality for Healthcare Providers
3 HOURS (3-0) FA, SP, SU
This course is designed to assist the students in their articulation of and reflection on their spiritual values as integrated in both their personal and professional relationships. The history of spiritual practices and persons who exemplified faith-filled lives primarily within the Roman Catholic tradition are explored and studied. This is a process course which provides opportunities for students to participate in a variety of prayer experiences, prayer rituals, reflections, values in art and music, along with discussions designed to enhance the students’ spirituality in relationship with personal, professional and healthcare contexts.

REL 250
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Death, Dying and Bereavement
3 HOURS (3-0) FA
This course is designed to enhance the understanding of death and dying as it relates to human development. The focus of the course is to promote personal and professional growth regarding topics associated with death and dying, loss, grief and bereavement. Various religious beliefs about the afterlife will also be explored. Participants will discuss topics related to the biological, psychological, cultural and spiritual dimensions of death.

REL 260
History of Christianity
3 HOURS (3-0) FA, SP, SU
This course will provide a survey of developments in Christianity from biblical and apostolic origins to the present. Social, cultural, political and intellectual factors will be examined in the formation and expansion of the Christian influence.
Prerequisites: ENG 101 or equivalent.

REL 280
Independent Study
1-5 HOURS (1-5-0) FA, SP, SU
Supervised independent work in religion is designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.

REL 299/399
Special Topics
1-3 HOURS (1-3) FA, SP, SU
During various semesters throughout the academic year, special topics in theology will be presented. Past topics include Scriptural Studies and Catholicism in the Movies.
Prerequisites: ENG 101 and ENG 102 or equivalents.

REL 301
Medical Ethics
3 HOURS (3-0) FA, SP, SU
The purpose of this course is to deepen the ethical and moral competence of the student in the healthcare field. Students will learn various ethical theories and principles and apply them to concrete medical cases. Students will understand Catholic directives on healthcare and Catholic ethical principles based on Church documents, tradition, scripture, and Catholic moral teaching. It will also explore issues involved in healthcare systems from a social justice perspective. Students will reflect on the meaning of suffering and death and discuss the ethical implications of new technologies in healthcare.
Prerequisites: ENG 101 and 102 or equivalents.

REL 311
World Religions
3 HOURS (3-0) FA, SP, SU
This course will introduce students to the reality of the twenty-first century global village through the perspectives of the major religions of the world, particularly Hinduism, Judaism, Buddhism, Christianity and Islam. Students will be challenged to examine the sacred traditions, sacred texts, prayer rituals, religious celebrations, art, music and foods of these religious traditions. Students will explore, experience and reflect upon the similarities and differences in each of the major world religions focusing upon creed, code, ceremony, worldview and perceptions of the divine. Additionally, students will examine basic beliefs, practices and historical developments, along with the relationship of each major world religion’s view of suffering and death and the implications for healthcare.

Prerequisites: ENG 101 and ENG 102 or equivalents.

REL 324
*Old Testament: Torah, Prophets and Writings*
3 HOURS (3-0) FA, SP, SU
This course is an examination of the Old Testament (Tanak) which includes: Torah, the writings of the major and the minor prophets (Nevi’im), as well as the biblical books which comprise the Writings (Kethuvim). Topics will include salvation history, historical and biblical context, a synopsis of the variety of literary styles, a study of the theology of the biblical prophets, themes, and the history of the development of Israel as the people of God. Attention is given to contemporary principles of biblical interpretation, biblical and historical criticism, inspiration, and revelation.
Prerequisites: ENG 101 and ENG 102 or equivalents.

REL 325
3 HOURS (3-0) FA, SP, SU
This course is an examination of the Synoptic Gospels, the undisputed letters of Paul, as well as the Deutro-Pauline texts, The Acts of the Apostles, the Gospel of John, and the book of Revelation. Topics will include an overview of the historical details of the first century of the Common Era, and a synopsis of the variety of literary styles exhibited in the writings of the New Testament.
Prerequisites: ENG 101 and ENG 102 or equivalents.

REL 330
*Image and Identity: Theologies of Christian Art*
3 HOURS (3-0) FA, SP, SU
This course is an examination of the development of Christian theologies as expressed in Christian art from the 1st through 21st centuries. Topics will include a survey of the major periods of theological development and their expression in the visual arts of painting, sculpture, architecture and other media. Emphasis will be placed on the cultural context and interpretation of image-texts and word-texts.
Prerequisites: ENG 101 and ENG 102 or equivalents.

REL 335
*Spirituality on Page, Stage and Screen*
This course explores spiritual and religious themes in contemporary literature, theatre, and cinema. Students will analyze these themes through reading, video, discussion, and written projects.
Prerequisites: ENG 101 and ENG 102 or equivalents.

**REL 360**
*Women and Religion*
3 HOURS (3-0) FA, SP, SU
This course will examine the influence of women in Western religious traditions in a historical, cultural and religious context (emphasizing Christianity). Particular focus will address women’s historical and cultural participation in ministerial outreach in education and health care.
Prerequisites: Eng 101 and ENG 102 or equivalents.

**REL 380**
*Mission, Values and Social Teaching*
3 HOURS (3-0) FA, SP, SU
This course will provide students with a basic knowledge of the foundations of mission, an understanding of moral/ethical development as an approach to see, judge, act with regard to social issues, and practice in understanding, interpreting, and evaluating modern social teaching documents.
Prerequisites: Eng 101 and ENG 102 or equivalents.

**REL 382**
*Spiritual Care: Integration of Body, Mind, and Spirit Healing*
3 HOURS (3-0) FA, SP, SU
This course will provide students with a basic knowledge of the biblical roots, pastoral images, and healing ministry of Jesus as they relate to the discipline of Spiritual Care. Through the identification of spiritual care approaches and the examination of ethical and developmental issues, students will gain insight into the complexity of the health care delivery system and the importance of interdisciplinary relationships among care givers.
Prerequisites: Eng 101 and ENG 102 or equivalents.

**REL 385/IDS 385**
*Mission, Health Care Ministry and Enculturation*
3 HOURS (3-0) FA, SP, SU
This course examines the role of mission, the Mercy Core values and health care from their origins in Scripture and throughout history, specifically in the lives of Jesus Christ, Catherine McAuley, Florence Nightingale, Marguerite d’Youville, and Mother Teresa of Calcutta with special emphasis on the development of a personal and professional perspective of integrating these virtues into health care in the present. The course requires the student to participate in a week long (during Spring Break) mission experience in a developing country.
Prerequisites: ENG 101 and ENG 102 or equivalent; and participation in the application process, including a letter of recommendation from a member of the faculty at Mercy College.
REL 390
*Catholic Thought and Contemporary Issues*
3 HOURS (3-0) FA, SP, SU
To provide an understanding of the development and influence of Catholic thought when applied to contemporary issues. Rationale: The content of this course will offer a sustained and thorough examination of Catholic doctrine and thought in dialog with contemporary issues with a view to greater understanding of contemporary issues and Catholic teaching. This course’s emphasis on dialog will demonstrate the relevance of this subject matter to the experience of life in a global community.
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 101
*Introduction to Sociology*
3 HOURS (3-0) FA, SP, SU
This introductory course provides a survey of the various fields of study comprising modern scientific sociology. It examines the theories, basic research findings, and applications in each of the major areas of sociology. The course utilizes a scientific perspective in examining different social relations and social institutions. Some of the topics covered are culture, social structures, crime and deviance, social stratification, racial, ethnic and gender inequality and the family.

SOC 150
*Gerontology Overview*
1 HOUR (1-0) FA, SP, SU
This course is designed as an exploratory overview of the field of aging (gerontology) for anyone in a healthcare field. Topics covered will include the biology, psychology, spirituality and sociology of aging, human development in the late years, and leisure and retirement.

SOC 211
*Cultural Diversity*
3 HOURS (3-0) FA, SP, SU
This course provides an exploration of various cultures within modern American society. The definition of culture, cultural practices, prejudice and discrimination and cultural sensitivity are covered. The exposure of students to new cultures is emphasized through presentations, hands-on learning and experience. Topics include race and ethnicity, religion, gender, social class, family background, language and age and generation.

SOC 280
*Independent Study*
1-5 HOURS (1-5-0) FA, SP, SU
Supervised independent work in sociology designed to meet approved objectives/learner outcomes. Student must meet specific criteria and present the instructor with a detailed written proposal. Written approval must be obtained from the instructor and Associate Dean. Up to three hours of credit will be awarded.

SOC 350
Global Issues  
3 HOURS (3-0) FA, SP, SU  
The main focus of this course will be to examine various definitions and concepts of globalization, current global issues focusing on poverty, crime, war, inequality, environment, global health policy and diseases, and proposed solutions to these problems. In addition, students will locate evidence from a variety of sources, using the perspectives of different cultures.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 370  
Asians and Asian Americans  
3 HOURS (3-0) FA, SP, SU  
This course aims to introduce students to contemporary Asian and Asian American culture and its roots. The course will seek to develop a dynamic understanding of modern Asians and Asian Americans through an interdisciplinary approach to cultural, social, economic, and political issues of Asians and Asian Americans. Asian and Asian American history and migration, entrepreneurship, assimilation patterns, and trans-nationalism will be discussed.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 380  
Understanding Consumer Behavior  
3 HOURS (3-0) FA, SP, SU  
This course is an exploration of buyer behavior of goods and services. Students will be encouraged to reflect upon their own consumption experiences amid a multicultural society. Topics covered will include globalization and consumer behavior, the consumer decision making process, cross-cultural variations in consumer behavior, consumer health care behavior, and consumer movement and public policy.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 399  
Special Topics  
3 HOURS (3-0) FA, SP, SU  
During various semesters throughout the academic year, special topics in sociology will be presented. Past topics include: Global Issues and Korean Society.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 410  
Sociological Perspectives on Peace  
3 HOURS (3-0) FA, SP, SU  
This course is designed as an exploration of peace studies. The study of peace will be situated within the sociological frameworks of social institutions and culture. Students will learn to appreciate approaches to peace and their impact on current events. Topics covered will include approaches to war, building peace, non-violence, religious inspiration, peace movements and the future of peace promotion.  
Prerequisites: ENG 101 and ENG 102 or equivalents.

SOC 420
Sociology of Global Markets
3 HOURS (3-0) FA, SP, SU
This course is a sociological exploration of the global marketing process and practices. Case studies will include skin-whitening and the cosmetics market, Whirlpool and the American appliance industry, the corporate sport media complex, global knowledge economy, global franchising, fashion, dietary supplements, organic vegetables supply chain, medical tourism, and the New Orleans’ Mardi Gras celebration.
Prerequisites: ENG 101 and ENG 102 or equivalents.

SPN 101
Elementary Spanish I
3 HOURS (3-0) FA, SP, SU
This course emphasizes listening, reading, speaking, and writing through a focus on simple grammatical concepts. Students will develop listening, comprehension, basic vocabulary, speaking and writing skills for practical everyday use, in addition to developing an appreciation of relevant aspects of Hispanic culture.

SPN 102
Elementary Spanish II
3 HOURS (3-0) FA, SP, SU
This course will further develop all four language skills: listening, speaking, reading and writing. Students will develop the ability to communicate in Spanish, while at the same time introducing them to Hispanic culture. A strong emphasis is placed on using the language in practical situations, while developing an understanding of correct usage of the basics of Spanish grammatical rules, word order, and word formation.
Prerequisites: SPN 101 with a grade of “C” or higher.