2750:120 Medical Terminology (3 Credits)
Prerequisite: 2750:120. This course studies medical prefixes, suffixes, word roots, combining forms, and with an emphasis on pronunciation, spelling, and abbreviations. Medical Terminology related to the body systems will be emphasized. The purpose of the course is to equip the student with a basic understanding of the tools needed to learn medical terminology as it relates to the body systems with an emphasis on spelling and pronunciation.

2750:121 Study of Disease Processes (3 Credits)
Prerequisite: 2750:120. This course studies human disease and the disease process including treatments, causes, incidence, signs and symptoms, and diagnosis.

2750:122 Emergency Responder I (1 Credit)
Theory and practice in recognition and response to emergencies by the medical professional including but not limited to: breathing difficulty, cardiac arrest, heart attack, stroke, bleeding, wound care, musculoskeletal injuries, burns, poisonings, heat and cold exposure, and diabetic care.

2750:200 Health Record Content (3 Credits)
Prerequisites: 2440:105 and 2740:127. Introduction to the contents and design of health records (paper and electronic) and discussion of how clinical documentation facilitates the function of the delivery system.

2750:226 Healthcare Statistics and Registries (3 Credits)
Prerequisites: 2030:130 and 2440:105. This course covers computations of routine healthcare institutional statistics, the presentation and interpretation of healthcare data, and the use of disease and procedural registries.

2750:227 Basic Procedural Coding (3 Credits)
Prerequisite: 2750:120. Class focuses on converting the procedural language into industry standard character strings for purposes of reimbursement CPT and HCPCS codes; learning how to convert procedural statements into CPT and HCPCS codes; learning how to apply carrier rules for reimbursement.

2750:229 Basic Diagnostic Coding (3 Credits)
Prerequisite: 2750:120. This class focuses on converting the diagnostic language into industry standard character strings ICD-10-CM for purposes of reporting, research, and reimbursement.

2750:230 Basic Pharmacology (3 Credits)
This course is an introduction to pharmacology, organized and presented by therapeutic classification. Topics will include pharmacokinetics, factors which influence drug actions, routes or administration, and adverse effects.

2750:301 Quality Management in Healthcare (2 Credits)
Prerequisites: 2750:200 and 2750:328. An introduction of the methods used to define, implement, and monitor total quality management in health care.

2750:302 Clinical Information Systems (3 Credits)
Prerequisite: 2740:127. Discussion of clinical systems including history of EHR and EMR, the theories behind systems, implementation, evaluation pathways, "Meaningful Use" and the architecture in different settings.

2750:303 Advanced Coding II (3 Credits)
Prerequisites: 2750:227 and 2750:229. Through case studies, the class is intended to prepare the student for either the AAPC CPC or the AHIMA CCS-P certification exam.

2750:304 Healthcare Management Foundations (3 Credits)
Prerequisite: 2420:300. This course focuses on the circumstances unique to the health care industry management as manifested by patient privacy, outsourcing, and telecommunications.

2750:310 Healthcare Finance (3 Credits)
Prerequisites: 2420:211, 2420:213, 2750:227, and 2750:328. Integration of principles learned in accounting, coding, and insurance prerequisites into an exploration of financial management in the sector of the economy that is healthcare.
2750:328 Medical Insurance (3 Credits)
Prerequisites: 2750:120, 2750:227, and 2750:229. This course examines the nature of medical insurance reimbursement for medical services. Students will be equipped with an understanding of insurance and reimbursement methodologies.

2750:331 Advanced Coding I (3 Credits)
Prerequisites: 2750:120, 2750:227, and 2750:229. An advanced coding course that builds on the CPT and HCPCS codes sets and the ICD-10-CM code set and introduces a series of detailed management topics related to coding.

2750:336 Legal Concepts of Healthcare (2 Credits)
Prerequisite: 2740:127. Study of legal principles related to patient care and patient records.

2750:350 Coding Practicum (3 Credits)
Prerequisites: 2750:227, 2750:229, 2750:303, and 2750:331. The coding practicum course provides professional experience in an approved site under the direction of a coding or HIM faculty member and an onsite coordinator.

2750:401 Management Information Systems (3 Credits)
Prerequisites: 2740:127, 2750:235, 2750:301 and 2750:302. This senior level course focuses on the management of HIM through case studies and textbook work.

2750:410 Healthcare Research (3 Credits)
Prerequisites: 2020:222 and 3470:260. Through review of research, HIM students in this class will learn how to support clinicians’ data needs while research is conducted.

2750:412 Current Topics in HIM (3 Credits)

2750:420 HIM Capstone (4 Credits)

2750:450 HIM Practicum (3 Credits)
Prerequisites: 2750:200, 2750:301, 2750:302, 2750:303, 2750:304, 2750:310, 2750:331, and 2750:336. The HIM practicum course provides professional experience in an approved site under the direction of a coding or HIM faculty member and an onsite coordinator.

Allied Health (2780)

2780:102 Overview of Simulation Healthcare (4 Credits)
An overview of the use of simulation technology in healthcare education: simulation design, development, implementation and evaluation. Department consent is needed.

2780:106 Anatomy & Physiology for Allied Health I (3 Credits)
Introduction to the study of human structure and function. No laboratory.
**Gen Ed:** Tier 2 - Natural Science

2780:107 Anatomy & Physiology for Allied Health II (3 Credits)
Prerequisite: 2780:106. Introduction to the study of human structure and function. No laboratory.
**Gen Ed:** Tier 2 - Natural Science

2780:110 Anatomy and Physiology for Allied Health Laboratory (1 Credit)
Prerequisites or corequisites: 2750:120 and 2780:106. This course is an adjunct to the introduction to the structure and function of the human body. This course will be hands on learning to assist in the learning of anatomy and physiology. Topics covered include organization of the body, chemistry, cells and tissues, the skeletal system, the muscular system, the respiratory system, and the cardiovascular system.

2780:111 Anatomy and Physiology for Allied Health Laboratory II (1 Credit)
Prerequisites: 2750:120, 2780:106, and 2780:110. Prerequisite or corequisite: 2780:107. This course is an adjunct course of an introduction to the structure and function of the human body. This course will be hands on learning to assist in the learning of anatomy and physiology. Topics covered include the following body systems; nervous, endocrine, digestive, urinary, reproductive, lymphatic, and pregnancy.

2780:201 Simulation Technology Basic Repair (4 Credits)

2780:290 Special Topics: Allied Health (1-2 Credits)
Prerequisite: Permission. Selected topics or subject areas of interest in allied health. (May be repeated for a total of four credits)

Respiratory Care (2790)

2790:100 Concepts in Respiratory Therapy (3 Credits)
Prerequisites: 2030:152 and 2030:153. Introductory concepts regarding the practice and application of the theories employed in respiratory therapy, including career information, equipment (lecture/discussion)

2790:210 Respiratory Therapy Procedures I (3 Credits)
Prerequisites: [2790:100, 2750:120, and 2780:106] or [3100:200 and 3100:201]. Application of oxygen and aerosol therapy equipment. Lecture/laboratory.

2790:215 Respiratory Therapy Pharmacology (3 Credits)
Prerequisites: 2790:100, 3150:110, and 3150:111. Pharmacologic actions and effects of medications delivered by respiratory therapists, and routes of administration.

2790:290 Special Topics: Respiratory Care (1-3 Credits)
Prerequisite: Permission. Selected topics or subject areas of interest in respiratory therapy technology. (May be repeated for a maximum of three credits)

2790:301 Cardiopulmonary Assessment Techniques (2 Credits)
Prerequisites: 2780:107 or [3100:202 and 3100:203]. Overall patient assessment, with concentration on the cardiopulmonary systems. Overview of common illness and related clinical manifestations. Lecture/laboratory.

2790:302 Cardiopulmonary Anatomy and Physiology (3 Credits)

2790:303 Cardiopulmonary Pathology (4 Credits)
Prerequisites: 2790:301 and 2790:302. Discussion of diseases of the heart and lungs, and their relationship to the role of the respiratory therapist.

2790:311 Respiratory Therapy Procedures II (3 Credits)
2790:312 Diagnostics I (3 Credits)

2790:313 Diagnostics II (3 Credits)

2790:315 Advanced Pharmacology for Respiratory Therapy (3 Credits)
Prerequisite: 2790:215. Pharmacologic actions and effects of Cardiopulmonary Medications.

2790:320 Neonatal/Pediatrics for Respiratory Therapy I (3 Credits)
Prerequisite: 2790:301. In depth coverage of neonatal & pediatric respiratory care concepts. Emphasis placed on anatomy and physiology, assessment, and therapeutics.

2790:325 Mechanical Ventilation (4 Credits)

2790:340 Application of Clinical Concepts (2 Credits)
Prerequisite: 2790:210. Corequisite: 2790:301. Introduction to basic respiratory therapy in a hospital setting, and hands-on practice with respiratory therapy equipment, including CPR for the professional. Lecture/clinical.

2790:341 RT Clinical Experience I (3 Credits)

2790:342 RT Clinical Experience II (2 Credits)
Prerequisites: 2790:315, 2790:325, and 2790:341. Application of clinical procedures in a hospital setting, with emphasis on mechanical ventilation techniques. 150 clinical hours.

2790:413 Respiratory Therapy in Alternate Settings (3 Credits)
Prerequisite: 2790:313. Pulmonary rehabilitation and home care, as well as care in alternate settings. Lecture/lab.

2790:420 Neonatal/Pediatrics for Respiratory Therapy II (3 Credits)
Prerequisite: 2790:320. Detailed study of airway management, pathophysiology and treatment modalities as they relate to neonatal/pediatrics.

2790:421 ACLS & PALS (3 Credits)

2790:430 Problems in Respiratory Therapy (4 Credits)
Prerequisites: 2790:313, 2790:420, and 2790:443. Capstone course, applies the concepts from clinical situations, using computer simulations and cases and evaluates research in Respiratory therapy.

2790:443 RT Clinical Experience III (4 Credits)
Prerequisite: 2790:342. Rotation to a variety of Health care facilities to practice specialty procedures in each institution. 300 clinical hours.

2790:444 RT Clinical Experience IV (4 Credits)
Prerequisite: 2790:443. Rotation to a variety of health care facilities to practice specialty procedures from each institution. Clinical (total of 300 hours).