COURSE DESCRIPTIONS BY COURSE DISCIPLINE PREFIX

RAD RADIOGRAPHY

RAD-110 Rad Intro & Patient Care 3 (2-3) Fall
Prerequisites: None
Corequisites: RAD-111[L] and RAD-151[L]
This course provides an overview of the radiography profession and student responsibilities. Emphasis is placed on basic principles of patient care, radiation protection, technical factors, and medical terminology. Upon completion, students should be able to demonstrate basic skills in these areas.(2022 SU)

RAD-111 RAD Procedures I 4 (3-3) Fall
Prerequisites: None
Corequisites: RAD-111[L] and RAD-151[L]
This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the chest, abdomen, extremities, bony thorax and pelvis. Upon completion, students should be able to demonstrate competence in these areas.(2017 FA)

RAD-112 RAD Procedures II 4 (3-3) Spring
Prerequisites: RAD-110[L], RAD-111[L] and RAD-151[L]
Corequisites: RAD-121[L] and RAD-161[L]
This course provides the knowledge and skills necessary to perform standard radiographic procedures. Emphasis is placed on radiography of the skull, spine, and gastrointestinal, biliary, and urinary systems. Upon completion, students should be able to demonstrate competence in these areas.(2022 SU)

RAD-121 Image Production I 3 (2-3) Spring
Prerequisites: RAD-110[L], RAD-111[L] and RAD-151[L]
Corequisites: RAD-112[L] and RAD-161[L]
This course provides the basic principles of radiographic image production. Emphasis is placed on image production, x-ray equipment, receptor exposure, and basic imaging quality factors. Upon completion, students should be able to demonstrate an understanding of basic principles of radiographic image production.(2022 SU)

RAD-122 Image Production II 2 (1-3) Summer
Prerequisites: RAD-112[L], RAD-121[L] and RAD-161[L]
Corequisites: RAD-141[L] and RAD-171[L]
This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on advanced digital principles and production. Upon completion, students should be able to demonstrate an understanding of advanced principles of digital imaging production.(2022 SU)

RAD-141 Radiation Safety 2 (2-0) Summer
Prerequisites: RAD-112[L], RAD-121[L] and RAD-161[L]
Corequisites: RAD-122[L] and RAD-171[L]
This course covers the principles of radiation protection and radiobiology. Topics include the effects of ionizing radiation on body tissues, protective measures for limiting exposure to the patient and personnel, and radiation monitoring devices. Upon completion, students should be able to demonstrate an understanding of the effects and uses of radiation in diagnostic radiology.(2022 SU)

RAD-151 RAD Clinical Ed I 2 (0-0-6) Fall
Prerequisites: None
Corequisites: RAD-110[L] and RAD-111[L]
This course introduces patient management and basic radiographic procedures in the clinical setting. Emphasis is placed on mastering positioning of the chest and extremities, manipulating equipment, and applying principles of ALARA. Upon completion, students should be able to demonstrate successful completion of clinical objectives.(2022 SU)

RAD-161 RAD Clinical Ed II 5 (0-0-15) Spring
Prerequisites: RAD-110[L], RAD-111[L] and RAD-151[L]
Corequisites: RAD-112[L] and RAD-121[L]
This course provides additional experience in patient management and in more complex radiographic procedures. Emphasis is placed on mastering positioning of the spine, pelvis, head and neck, and thorax and adapting procedures to meet patient variations. Upon completion, students should be able to demonstrate successful completion of clinical objectives.(2022 SU)

RAD-171 RAD Clinical Ed III 3 (0-0-9) Summer
Prerequisites: RAD-112[L], RAD-121[L] and RAD-161[L]
Corequisites: RAD-122[L] and RAD-141[L]
This course provides experience in patient management specific to advanced radiographic procedures. Emphasis is placed on applying appropriate technical factors to all studies and transitioning to mastering positioning of advanced studies. Upon completion, students should be able to demonstrate successful completion of clinical objectives.(2022 SU)

RAD-211 RAD Procedures III 3 (2-3) Fall
Prerequisites: RAD-122[L], RAD-141[L], and RAD-171[L]
Corequisites: RAD-231[L] and RAD-251[L]
This course provides the knowledge and skills necessary to perform standard and specialty radiographic procedures. Emphasis is placed on radiographic specialty procedures, advanced imaging, radiographic pathology and image analysis. Upon completion, students should be able to demonstrate an understanding of these areas.(2022 SU)

RAD-231 Image Production III 2 (1-3) Fall
Prerequisites: RAD-122[L], RAD-141[L], and RAD-171[L]
Corequisites: RAD-211[L] and RAD-251[L]
This course is designed to continue to develop the concepts and principles in the field of radiologic technology. Emphasis is placed on complex imaging production and principles, quality control and quality assurance in the imaging sciences. Upon completion, students should be able to demonstrate an understanding of advanced radiographic equipment and quality control programs.(2022 SU)

RAD-251 RAD Clinical Ed IV 7 (0-0-21) Fall
Prerequisites: RAD-122[L], RAD-141[L], and RAD-171[L]
Corequisites: RAD-211[L] and RAD-231[L]
This course provides the opportunity to continue mastering all basic radiographic procedures and to attain experience in advanced areas. Emphasis is placed on equipment operation, pathological recognition, pediatric and geriatric variations, and further awareness of radiation protection requirements. Upon completion, students should be able to demonstrate successful completion of clinical objectives.(2022 SU)

RAD-261 RAD Clinical Ed V 7 (0-0-21) Spring
Prerequisites: RAD-211[L], RAD-231[L], and RAD-251[L]
Corequisites: RAD-271[L]
This course is designed to enhance expertise in all radiographic procedures, patient management, radiation protection, and image production and evaluation. Emphasis is placed on developing an autonomous approach to the diversity of clinical situations and successfully adapting to those procedures. Upon completion, students should be able to demonstrate successful completion of clinical objectives.(2022 SU)

RAD-271 Radiography Capstone 3 (2-3) Spring
Prerequisites: RAD-211[L], RAD-231[L], and RAD-251[L]
Corequisites: RAD-261[L]
This course provides an opportunity to exhibit problem-solving skills required for certification. Emphasis is placed on critical thinking and integration of didactic and clinical components. Upon completion, students should be able to demonstrate the knowledge required of an entry-level radiographer.(2022 SU)