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RADIOLOGIC TECHNOLOGY (RAD)

RAD 101  Introduction to Radiography  2 SHC
This course provides an introduction to radiology technology with emphasis on orientation to the radiology department, ethics, and basic radiation protection. Prerequisite: Admission to the program. Corequisites: RAD 102, RAD 130, RAD 152. (2/0)

RAD 102  Radiology Patient Care Procedures  2 SHC
This course provides a study of the procedures and techniques used in the care of the diagnostic imaging patient. Prerequisite: Admission to program. Corequisites: RAD 101, RAD 130 and RAD 152. (1/3)

RAD 110  Radiographic Imaging I  3 SHC
This course provides detailed study of the parameters controlling radiation quality and quantity for radiographic tube operation and image production. Prerequisite: RAD 101, RAD 102 and RAD 152. Corequisites: RAD 136 and RAD 165. (2/3)

RAD 115  Radiographic Imaging II  3 SHC
This course continues a detailed study of primary and secondary influencing factors and accessory equipment related to imaging. Prerequisite: RAD 175, RAD 201 and RAD 282. Corequisites: RAD 121, RAD 230 and RAD 256. (3/0)

RAD 121  Radiographic Physics  4 SHC
This course introduces the principles of radiographic physics, incorporating theory and application of basic principles underlying the operation and maintenance of x-ray equipment. Prerequisites: RAD 175, RAD 201 and RAD 282. Corequisites: RAD 115, RAD 230 and RAD 256. (4/0)

RAD 130  Radiographic Procedures I  3 SHC
This course provides an introduction to radiographic procedures. Positioning of the chest, abdomen, and extremities are included. Prerequisite: Admission to the program and BIO 211. Corequisites: RAD 101, RAD 102 and RAD 152. (2/3)

RAD 136  Radiographic Procedures II  3 SHC
This course is a study of radiographic procedures for visualization of the structures of the body. Prerequisites: RAD 130 and RAD 152. Corequisites: RAD 110 and RAD 165. (2/3)

RAD 152  Applied Radiography I  2 SHC
This course introduces the clinical environment of the hospital by providing basic use of radiographic equipment and routine radiographic procedures. Prerequisite: Admission to the program. Corequisites: RAD 101, RAD 102 and RAD 130. (0/6)

RAD 165  Applied Radiography II  5 SHC
This course includes the use of radiographic equipment and performance of radiographic procedures within the clinical environment of the hospital. Prerequisite: RAD 152. Corequisites: RAD 110 and RAD 136. (0/15)

RAD 175  Applied Radiography III  5 SHC
This course includes clinical education needed for building competence in performing radiographic procedures within the clinical environment. Prerequisites: RAD 110, RAD 136 and RAD 165. Corequisites: RAD 201 and RAD 282. (0/15)

RAD 201  Radiation Biology  2 SHC
This course is a study of the principles of radiobiology and protection. It emphasizes procedures that keep radiation exposure to patients, personnel, and the population at large to a minimum. Prerequisites: RAD 110, RAD 136 and RAD 165. Corequisites: RAD 282 and RAD 175 (2/0)

RAD 205  Radiographic Pathology  2 SHC
This course provides a survey of disease processes significant to the radiographer, including etiology, diagnosis, prognosis, and treatment. Prerequisites: RAD 115, RAD 121, RAD 230 and RAD 256. Corequisites: RAD 225, RAD 235 and RAD 268. (2/0)

RAD 225  Selected Radiographic Topics  2 SHC
This course is a study of selected areas related to radiography. Prerequisites: RAD 115, RAD 121, RAD 230 and RAD 256. Corequisites: RAD 205, RAD 235 and RAD 268. (2/0)

RAD 230  Radiographic Procedures III  3 SHC
This course is a study of special radiographic procedures. Prerequisites: RAD 175, RAD 201 and RAD 282. Corequisites: RAD 115, RAD 121 and RAD 256. (2/3)

RAD 235  Radiography Seminar I  1 SHC
This course is a study of selected areas of radiography that are unique or new to the field. Prerequisites: RAD 115, RAD 121, RAD 230 and RAD 256. Corequisites: RAD 205, RAD 225 and RAD 268. (1/0)

RAD 236  Radiography Seminar II  2 SHC
This course includes selected areas of radiography that require additional study or application. Prerequisites: RAD 225, RAD 235, RAD 268 and RAD 282. Corequisite: RAD 276 (2/0)

RAD 256  Advanced Radiography I  6 SHC
This course includes independently performing routine procedures in a radiology department, including involvement in advanced radiographic procedures. Prerequisites: RAD 175, RAD 201 and RAD 282. Corequisites: RAD 115, RAD 121 and RAD 230. (0/18)

RAD 268  Advanced Radiography II  8 SHC
This course includes routine radiographic examinations, as well as advanced procedures, while continuing to build self-confidence in the clinical atmosphere. Prerequisites: RAD 115, RAD 121, RAD 230 and RAD 256. Corequisites: RAD 205, RAD 225 and RAD 235. (0/24)

RAD 276  Advanced Radiography III  6 SHC
This course includes routine and advanced radiographic procedures in the clinical environment. Prerequisites: RAD 225, RAD 235, RAD 268 and RAD 282. Corequisite: RAD 236 (0/18)

RAD 282  Imaging Practicum  2 SHC
This clinical course provides an opportunity for exploration of career opportunities in radiology and advanced imaging modalities. Prerequisites: RAD 110, RAD 136 and RAD 165. Corequisites: RAD 201 and RAD 175. (0/6) for fall and spring semesters; (1/3) for summer term.