RADT-RADIOLOGIC TECHNOLOGY (RADT)

RADT 100. Introduction to Radiologic Technology and Patient Care
2 Credits
Overview of the profession, including ethics, terminology, and basic radiation protection. Addresses basic and specialized procedures and topics related to the care of the patient. Restricted to: Community Colleges only. Restricted to Majors.

RADT 101. Radiographic Positioning I
4 Credits (2+6P)
Covers radiographic procedure and positioning concepts, techniques, terminology, and mechanics related to the thorax, abdomen, extremities, spine and pelvis. Includes positioning lab and clinical observation.

RADT 102. Radiographic Positioning II
4 Credits (2+6P)
Continuation of RADT 101. Includes skull, gastrointestinal, urinary, reproductive, biliary systems, and more advanced skeletal positions. Includes positioning lab and clinical observation. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 101.

RADT 103. Introduction to Radiographic Imaging
3 Credits (2+2P)
Provides the student with an in-depth knowledge of radiographic exposure technique and the factors affecting radiographic film quality. Includes lab experiments. Restricted to majors.

RADT 104. Special Radiologic Modalities
2 Credits
Discussion of various special procedures used in medical imaging such as, angiography, ultrasound, computerized tomography, magnetic resonance imaging, digital imaging, nuclear medicine, radiation therapy, etc. Includes guest lectures and field trips.

Prerequisite: RADT 103.

RADT 105. Radiographic Physics and Equipment
3 Credits
Fundamentals of rad physics. Includes electromagnetism, x-ray production and interactions, x-ray circuitry, tubes, grids, screens, AES, fluoroscopic and portable units, beam restricting devices, calibration and quality assurance/control. Overview of mammography, US, CT, MRI, and digital radiography. Restricted to: Community Colleges only. Restricted to Majors.

Prerequisite: RADT 103 or consent of instructor.

RADT 110. Radiographic Pathology
1 Credit
Overview of pathology demonstrated by radiographic procedures. Restricted to majors.

Prerequisite: RADT 154.

RADT 154. Radiographic Anatomy and Physiology
3 Credits
Basic A&P for radiographic application. Includes a systems approach to body structures and organs as they relate to anatomical projections, radiographic identification, and various imaging modalities. Restricted to: RADT majors. Restricted to: Community Colleges only.

Prerequisite(s): AHS 153 or AHS 140 or BIOL 225 or BIOL 154, or consent of instructor.

RADT 156. Independent Study
1-6 Credits
Individual studies/research on topics related to the radiological sciences. May be repeated for a maximum of 6 credits. Restricted to: Community Colleges only.

RADT 190. CT Equipment and Methodology
3 Credits
Skill development in the operation of computed tomographic equipment, focusing on routine protocols, image quality, and quality assurance and radiation protection. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.

RADT 200. Radiation Biology and Protection
2 Credits
Biological effects of ionizing radiation on cells and tissues. Includes radiation measurements, policies and protection measures for self, patients, and others. Restricted to majors. Restricted to: Community Colleges only.

Prerequisite(s): RADT 103.

RADT 201. Clinical Education I
9 Credits
Supervised practice in a radiology department under direct supervision of a registered technician. Includes film critiques. Community Colleges Only. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 105.

RADT 202. Clinical Education II
12 Credits
Continuation of RADT 201. Student will work under indirect supervision of registered personnel. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): OERT 201.

RADT 203. Clinical Education III
11 Credits
Continuation of RADT 202. May be repeated up to 11 credits. Restricted to: RADT,OERT majors. Restricted to Community Colleges campuses only.

Prerequisite(s): RADT 202.

RADT 205. Radiographic Image Critique
1 Credit
Review of radiographs produced in clinical settings to evaluate anatomy and technical issues. Restricted to majors.

Prerequisite: RADT 201.

RADT 206. Applied Radiographic Procedures
2 Credits (1+3P)
Advanced course which integrates the principles and techniques of radiologic technology. Restricted to majors.

Prerequisite: RADT 202.

RADT 207. Cross Sectional Anatomy for Medical Imaging
3 Credits
Anatomic relationships that are present under various sectional orientations as depicted by computed tomography or magnetic resonance imaging. May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.
RADT 208. Clinical I (Computed Tomography)  
**3 Credits**  
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. May be repeated up to 3 credits. Restricted to: RADT or CTOM majors. Restricted to Community Colleges campuses only.

RADT 209. Clinical II (Computed Tomography)  
**3 Credits**  
A health-related work-based learning experience that enables the student to apply specialized occupational theory, skills and concepts. Direct supervision is provided by the clinic professional. (Capstone Course). May be repeated up to 3 credits. Restricted to: CTOM or RADT majors. Restricted to Community Colleges campuses only.