Radiology Technology, AAS
School of Health Professions

Program Description

The Radiology Technology program offers the academic preparation and clinical training needed for a career as a Radiologic Technologist (radiographer). While many radiographers provide services in a hospital setting, others provide services in stand- alone medical imaging centers, mobile radiography providers and private physician offices. Radiography is the gateway to other specialized imaging modalities. With additional education through either employer based training or formal education, radiographers can progress to careers in Computed Tomography (CT), Magnetic Resonance Imaging (MRI), Angiography, Mammography and Quality Management. The program includes clinical experience in various off campus locations that provide radiologic imaging services.

Students who complete the Radiology technology program satisfactorily are eligible to apply to take the American Registry of Radiologic Technologists (ARRT) national certification exam.

This is a selective admission program. Please see the college website for details.

Purpose

The radiology technology program provides students with a complete educational experience for those who wish to become health-care providers. The radiology technology program provides each student opportunities to learn and develop competence in patient care, communication skills, critical thinking and technical skills that will permit the student to become a Diagnostic Radiologic Technologist. Integrated educational activities include lecture, laboratory activities, case studies and hands-on clinical training.

Program Mission

Our mission is to provide students with a variety of educational activities and experiences that will prepare them with a level of expertise required to become competent and successful radiographers.

Program Learning Outcomes

1. By the end of the program, students will be able to provide radiographic imaging services within a healthcare setting for a diverse patient population with an awareness of cultural diversity within the community.
2. By the end of the program, students will be able to demonstrate use of the ALARA principle to minimize radiation exposure to the patient, themselves, and the general public.
3. By the end of the program, students will be able to operate various pieces of radiologic equipment safely and effectively to expose, process and evaluate all types of radiographic images.
4. By the end of the program, students will be able to apply computation skills to provide safe medical radiation to patients by developing a thorough understanding of the creation and safe application of medical radiation.
5. By the end of the program, students will be able to use computers and computerized equipment in the process of imaging and caring for patients.
6. By the end of the program, students will be able to demonstrate appropriate practice standards that meet all of the Ethical requirements of the ARRT practice standards as well as maintain all the confidentiality requirements of HIPAA.
7. By the end of the program, students will be able to utilize and demonstrate effective interpersonal skills in treating a diverse population of patients as well as communicating with other members of the health care team.
8. By the end of the program, students will be able to demonstrate proficiency in dealing with life threatening medical emergencies that could occur in the radiology environment as assessed by simulated activities in the lab setting.
9. By the end of the program, students will be able to independently use critical thinking to adjust the radiographic imaging plan based on physiologic condition or recognized disease process.

Program Goals

- To produce graduates prepared for entry into the healthcare field.
- To produce graduates who have demonstrated the skills, professional values and ethics to function as entry-level radiographers.
- To produce graduates with the ability to think independently and value lifelong learning.
- To produce graduates with the ability to effectively communicate with patients and other health care providers.
- To produce graduates prepared for the American registry of radiologic technologist examination.

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Sugg. Term	Seq #	Course ID	Course Title	Cr.	Prereq/Coreq(Co)	Options Available
Prior to Program Start	1	BIO 171	Anatomy and Physiology I	4	CHM 107, CHM 150/151, CHM 225 or high school chemistry (C or better) and ENG 095 or Placement.	
1st Fall	2	PDV 101	First Year Seminar	1		
	3	ALH 122	Medical Terminology	3		
	4	BIO 172	Anatomy and Physiology II	4	BIO 171 (C or better)	
	5	RAD 111	Intro to Radiographic Procedures and Patient Care I	4	BIO 171 Co: ALH 122, BIO 172, RAD 121	
	6	RAD 121	Principles of Radiology Image Capture & Display	3	BIO 171 Co: ALH 122, BIO 172, RAD 111	
1st Spring	7	PHY 125	Physics for Radiology	3	High school Physics (C or better), PHY 107 or PHY 110; Co: RAD 131, RAD 141, RAD 146	
	8	MTH 157	College Algebra	3	MTH 100 (C or better), MTH 100A (C or better) or Placement	
	9	RAD 131	Digital Image Acquisition & Display	3	RAD 111, RAD 121; Co: MTH 157, PHY 125, RAD 141, RAD 146	
	10	RAD 141	Radiographic Procedures & Patient Care II	4	RAD 111, RAD 121; Co: MTH 157, PHY 125, RAD 131, RAD 146	
	11	RAD 146	Clinical Education I	4	RAD 111, RAD 121; Co: PHY 125, RAD 131, RAD 141	
1st Summer	12	RAD 215	Clinical Education II	3	RAD 146	
	13	RAD 255	Clinical Education III	3	RAD 215	
2nd Fall	14	CPT 150	Microcomputer Concepts	3		
	15	ENG 161	College Writing	3	ENG 085 or Placement; Co: ENG 095 or ENG 099 or Placement	
	16	PSY 160	General Psychology	3		
	17	RAD 211	Radiographic Procedures & Patient Care III	4	RAD 215 Co: RAD 216	
	18	RAD 216	Clinical Education IV	4	RAD 255; Co: RAD 211	
2nd Spring	19	ENG 162	Technical Communication	3	ENG 161	
	20	RAD 221	Radiographic Pathology & Job Search Preparation	3	RAD 211, RAD 216; Co: RAD 226, RAD 231	
	21	RAD 226	Clinical Education V	5	RAD 211, RAD 216; Co: RAD 221, RAD 231	
	22	RAD 231	Radiology Technology Capstone	1	RAD 211, RAD 216; Co: RAD 221, RAD 226	
	23	SPC 156	Interpersonal Communication	3		

Total Program Credits   74   RAD