

**RADIOLOGIC TECHNOLOGY – M096**  
**A.S. in Radiologic Technology**  
Contact: Holly Martin-Peele, 413-552-2460, hmartin@hcc.edu.

The Radiologic Technology program is fully accredited by the Joint Review Committee on Education in Radiologic Technology, 20 North Wacker Drive., Suite 2850, Chicago, IL 60606-2901, (312) 704-5300.

Education in Radiologic Technology  
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**\*\*\*Criminal Offense Record Act (CORI), Sex Offender Registry Information (SORI),  
and National Requirements that Regulate Registration as a Registered Radiologic Technologist\*\***

Radiologic Technology students are required to complete the CORI/SORI form once accepted to the program. A positive finding may prevent students from successfully completing the Radiologic Technology program due to clinical site requirements and/or may prohibit them from taking the National Registry Examination in Radiography.

**Drug Screening Policy**

Several Health Care Facilities affiliated with the College's Health Division are now requiring that students have a negative drug screen prior to beginning clinical experiences in their facility. In addition, a clinical facility may require the student to submit and pass random drug screening analysis in order to remain at that facility. Therefore, passing a drug screen will now be considered a Technical Standard for all students participating in the Health Division Programs. If a student fails drug screening, retesting occurs within 24 hours of notification of results. Failure to pass a drug screen or refusal to submit to screening will make the student ineligible for clinical placement. Failure and/or refusal for drug screening are grounds for immediate removal from the Health Division Program. Students will be provided with the drug screen procedure during the orientation process to each course. All screening will be at the student's own expense. The Work Connection at Holyoke Medical Center has been selected as the Division of Health's exclusive laboratory for student drug testing.

Upon successful completion of this program, graduates are eligible to take the National Registry Examination in Radiography administered by the American Registry of Radiologic Technologists. Our students have an outstanding pass rate on this national exam.

Definitions from: the Summary Report for Radiologic Technologists ([www.online.onecenter.org/link/summary/29-2034.01](http://www.online.onecenter.org/link/summary/29-2034.01)) produced by the United States Department of Labor in their Dictionary of Occupational Titles ([www.oalj.dol.gov/libdot.htm](http://www.oalj.dol.gov/libdot.htm)) If you wish to discuss reasonable accommodation, please contact the program director.

**Requirements to Apply**

1. All students interested in the Radiologic Technology program at Holyoke Community College are **required** to attend a Radiologic Technology information session within two years prior to applying to the program. Information sessions are held monthly and cover the selective admissions process and specific program information. Each session lasts approximately one hour and is conducted by a representative from the Radiologic Technology department. Radiologic Technology information sessions are held in the Frost building, room 309, from 2:00 - 3:15 p.m.\* Check the website [www.hcc.edu](http://www.hcc.edu), click "**Open Houses & Info Sessions**" for upcoming program information sessions. \*Unless otherwise stated.
2. All applicants must meet the following at time of application:
  - College Placement Testing (CPT): Must be completed within two years prior to application deadline demonstrating the following placement:
  - **Math Proficiency/Placement:**  $\geq 82$  in Algebra or completion of MTH 095 (Inter. Algebra) with a C- or better from an accredited college or university.
  - **English Proficiency/Placement:**  $\geq 70$  in Reading or  $\geq 80$  in Writing portion of the CPT; or ability to enter college-level coursework in English. English competency may also be demonstrated through college coursework (completion of English Composition I).
  - **Science Proficiency:** Completion of BIO 100, BIO 103, or successful completion of the challenge exam through the Biology department or the Testing Center. Completion or enrollment in A&P I or II with a "C+" or better. Enrollment in the Biology series at the time of application is strongly encouraged.

## **Essential Functions**

The following essential functions will be necessary to successfully complete the Radiography program. In some cases, assessment and developmental courses may help students meet these standards. These functional abilities may be performed with reasonable accommodation. This information is provided to allow the student to assess his (her) own capabilities.

To ensure patient safety, students throughout the program must be able to demonstrate:

- 1. Physical**
  - Helping in positioning patients who may be comatose, paralyzed, or otherwise incapacitated, from wheelchairs and beds, to x-ray tables, and vice versa. This includes regular lifting, pulling and pushing of 40+ pounds.
  - Handling and moving objects- use hands and arms in handling, installing, positioning, and moving materials, and manipulating things. Continuously reaching above shoulder level, frequently while holding objects.
  - Positioning, placing and moving equipment, i.e. image receptors, portable x-ray machines, and overhead equipment, as radiography requires positioning the x-ray tube hanging from the ceiling to various areas of the room.
  - Response to signals such as sound and light from a distance of 15 feet, as control panels and exposure switches are located in rooms or paneled areas separate from the x-ray table on which patients are placed.
  - Determination of differences in gradual changes in blacks, grays, purposes of judging images for technical quality.
  
- 2. Communicative**
  - Knowledge of the structure and content of the English language.
  - Active listening- giving full attention to what others are saying, taking time to understand the points being made.
  - Oral comprehension- the ability to listen and understand information and ideas presented through spoken words and sentences.
  - Speech clarity- the ability to speak clearly so others can understand you.
  - Speech recognition- the ability to identify and understand the speech of another person
  - Written expression- the ability to communicate information and ideas in writing so others will understand.
  - Communicating with others- providing information to supervisors, co-workers, and Physicians by telephone, in written form, e-mail, or in person.
  - Interacting with computers- using computers and computer systems including hardware and software.
  - Civility- polite, respectful, and professional behavior exhibited in classroom and clinical setting
  - Dependability- requires being reliable, responsible, and dependable, and fulfilling role obligations.
  - Integrity - requires being honest and ethical.
  - Cooperation- requires being pleasant with others displaying a good-natured, cooperative attitude.
  - Self control- requires maintaining composure, keeping emotions in check, controlling anger and avoiding aggressive behavior even in very difficult situations.
  - Concern for others- requires being sensitive to others needs and feelings.
  - Initiative- requires a willingness to take on responsibilities and challenges.
  - Stress tolerance- requires accepting criticism and dealing calmly and effectively with high stress situations.
  - Adaptability/flexibility- requires being open to change and to considerable variety in the workplace.
  
- 3. Cognitive**
  - The ability to fill syringes and enema bags, manipulate locks on equipment, and follow isolation procedures
  - Problem sensitivity- the ability to tell when something is wrong or is likely to go wrong.
  - Control precision- the ability to quickly and repeatedly adjust the controls of a machine or a vehicle to exact positions
  - Clinical decision making- gather analyze and draw conclusions from data
  
- 4. Emotional**
  - Dependability- requires being reliable, responsible, and dependable, and fulfilling role obligations.
  - Integrity - requires being honest and ethical.
  - Cooperation- requires being pleasant with others displaying a good-natured, cooperative attitude.
  - Self control- requires maintaining composure, keeping emotions in check, controlling anger and avoiding aggressive behavior even in very difficult situations.
  - Concern for others- requires being sensitive to others needs and feelings.
  - Initiative- requires a willingness to take on responsibilities and challenges.
  - Stress tolerance- requires accepting criticism and dealing calmly and effectively with high stress situations.
  - Adaptability/flexibility- requires being open to change and to considerable variety in the workplace.

## **PROGRAM OUTCOMES**

- Students will demonstrate clinical competence.
- Students will demonstrate effective communication skills.
- Students will demonstrate critical thinking and problem solving skills.
- Students will demonstrate a desire for professional growth and development.
- The program will graduate competent Radiologic Technologists.

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COURSE TITLE	COURSE NUMBER	PREREQUISITES	Co-REQUISITES	CREDITS	SEMESTER TAKEN	GRADE
<b>GENERAL EDUCATION REQUIREMENTS</b>				<b><u>27</u></b>		
Language and Literature I	ENG 101	Appropriate score on Placement Tests, or C- or better in ENG 097 and ENG 098, or C- or better in ENG 096 or ENG 099		3		
Language and Literature II	ENG 102	ENG 101		3		
Introduction to Sociology	SOC 110	Eligibility for ENG 101		3		
Social Problems <b>or</b> Sociology of Race and Ethnicity	SOC 214 SOC 220	SOC 110		3		
Human Anatomy and Physiology I <sup>1</sup>	BIO 217	A “C” grade or better in BIO 100 (including lab) or BIO 103 or a passing grade on the challenge exam.		4		
Human Anatomy and Physiology II <sup>1</sup>	BIO 218	BIO 217		4		
College Algebra	MTH 104	MTH 095 with a grade of C- or better or adequate score on the Mathematics Placement Examination		4		
Medical Terminology	HTH 114			3		
<b>PROGRAM REQUIREMENTS <sup>1</sup></b>				<b><u>43</u></b>		
Patient Care (Fall)	RDL 115	Acceptance into program	RDL 132 and RDL 122	3		
Radiographic Technique and Control I (Fall)	RDL 122	MTH 095 with a C- or better or equivalent placement		3		
Radiographic Technique and Control II (Spring)	RDL 123	RDL 122. Co-requisite: RDL 142		3		
Radiographic Positioning and Related Anatomy I (Fall)	RDL 132	Acceptance into the program.		3		
Radiographic Positioning and Related Anatomy II (Spring)	RDL 133	RDL 132 and BIO 217. Co-requisites: RDL 142 and BIO 218		3		
Clinical Education and Lab Experience I (Fall)	RDL 141	Acceptance into program. Co-requisites: RDL 115 and 132		2		
Clinical Education and Lab Experience II (Spring)	RDL 142	RDL 141. Co-requisites: RDL 123 and 133		3		
Clinical Internship I (Winter Intersession)	RDL 158	RDL 141. Co-requisites: RDL 123 and 133		1		
Radiologic Instrumentation (Spring)	RDL 190	RDL 123. Co-requisite: RDL 242		3		
Advanced Procedures and Techniques I (Fall)	RDL 221	RDL 123. Co-requisite: RDL 241		3		
Special Radiographic Studies and Contrast Media (Fall)	RDL 233	RDL 133 and BIO 218. Co-requisite: RDL 241		3		
Advanced Imaging and Radiobiology (Spring)	RDL 234	RDL 221. Co-requisite: RDL 242		3		
Clinical Education and Lab Experience III (Fall)	RDL 241	RDL 251, and BIO 218. Co-requisites: RDL 221, 142 and 233		3		
Clinical Education and Lab Experience IV (Spring)	RDL 242	RDL 241 and 158. Co-requisites: RDL 190 and 234		3		
Clinical Internship II (Summer)	RDL 251	RDL 142		4		
<b>Total Credits</b>				<b><u>70</u></b>		

**PROGRAM OVERVIEW**

The Associate of Science Degree in Radiologic Technology prepares students for work in hospital radiology departments, medical clinics, and industry. The hospital affiliated program allows students to become eligible for registration as a Radiologic technologist once they successfully complete the program (M096) and pass the certifying examination. Transfer is also possible.