

Prospective students interested in the Radiologic Technology Program should enroll as Pre Health students and take the general course requirements. General Education courses begin each year in early September, late January, early June and early July. During the Admissions process the Educational Planners will assist new students to enroll in courses.

All students:

To find out more about the program, please

1. Look over the information packet from the Program Chair or Admissions
2. Enroll in general education courses
3. Pick up the specific application from the Welcome Center. Available beginning in October 2009.
4. Attend an Information Session about the profession and the program (attendance at an information session within 2 years prior to your application is required to apply)
5. If you still have questions, contact the Program Chair by email hmartin@hcc.mass.edu

Holyoke Community College reserves the right to make changes concerning the information in this packet.



**Radiography
Information Sessions
At HCC
2009**

Attendance at one Info. Session within 2 years of your application is required to apply to the program.

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|--------------------|---------|------------------|
| • July 6, 2009 | 2:00 pm | Frost, Room 309 |
| • May 4, 2009 | 2:00 pm | Frost, Room 309 |
| • March 9, 2009 | 2:00 pm | Frost, Room 309 |
| • August 10, 2009 | 2:00 pm | Frost, Room 309 |
| • October 5, 2009 | 2:00 pm | Frost, Room 309 |
| • November 9, 2009 | 6:00 pm | Marieb, Room 102 |
| • December 7, 2009 | 2:00 pm | Frost , Room 309 |

Meet with Program Faculty and
Learn about the Medical Imaging Professions including:

Radiography	Mammography
Computed Tomography (CT or CAT scan)	Magnetic Resonance Imaging (MRI)
Angiography	Angioplasty

Starting Salaries for the 2005 and 2006 Graduates were \$36,000 to \$52,000 per year plus overtime and shift differential. Also health insurance, sick days, 3 to 4 weeks vacation/holidays, tuition reimbursement and more.

Radiologic Technology Holyoke Community College Description of Profession and Advancement Opportunities

Radiologic Technology is a general term for three areas of medicine which use radiation. The Program at HCC specifically covers the field of Radiography. Radiography uses x-radiation to produce images of the body. These images help in the diagnosis and treatment of injury and disease. The HCC program prepares students to work in medical imaging in

- hospitals,
- HMO's,
- orthopedic surgeon's offices,
- other doctor's offices and
- clinics.

Basic Radiography includes x-ray images of the

- chest,
- abdomen,
- spine,
- skeleton,
- digestive system using barium contrast media including Upper GI studies of the esophagus and stomach and Lower GI studies imaged during barium enemas
- urinary system using iodinated contrast media,
- spinal cord (myelography) and
- other specific exams.

Radiography also includes

- angiography (imaging the cardiovascular system)**
---**interventional procedures such as balloon angioplasty**
- CT (computer tomography) and**
- mammography.**
- Magnetic Resonance Imaging (MRI).**

Ultrasound provides another avenue for advancement, with one additional year of college work.

These imaging specialties provide many choices within Radiography for growth and advancement. **Management, education, and sales** provide additional areas of growth for those who wish to pursue bachelors and/or masters degrees.

Radiologic Technology Program Holyoke Community College

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

Prior to enrollment in Radiography clinical courses, students must give permission for a Criminal Offense Record Information (CORI) check and a Sex Offender Registry Information (SORI) check. All Radiography students will be subject to a CORI check and to review pursuant to the Criminal Information Act, Massachusetts General Laws, Chapter 276, Section 172178, and Massachusetts General Laws, Chapter 18A, Section 1, et seq., and regulations promulgated pursuant to such statutes. Applicant with court record/past convictions may be unable to participate in clinical. If a student is ineligible to attend clinical due to a criminal record, the student will not be able to graduate from the Radiography Program. The full College policy can be found in the Student Policy Guide.

A court record/past conviction may present a barrier to eligibility for registration as a registered Radiologic Technologist. Applicants with a court record/past conviction must contact the American Registry of Radiologic Technologist (ARRT) to complete a pre-application review of the violation in order to obtain a ruling on the impact on their eligibility for ARRT examination. The ARRT can be contacted at 1255 Northland Drive, Saint Paul, MN, 55120-1155, phone 651-687-0048

Technical Standards

The following functional abilities will be necessary to successfully complete the Radiography program. These functional abilities may be performed with reasonable accommodation. This information is provided to allow the student to assess his (her) own capabilities. Throughout the program, to ensure patient safety, the student must be able to:

1. Physical

- Help 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- using hands and arms in handling, installing, positioning, and moving materials, and manipulating things. *Continuously reaching above shoulder level, frequently while holding objects.*
- Position, place and move 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.
- Respond 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.
- Determine differences in gradual changes in blacks, grays, and whites for 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.

3. Cognitive

- Demonstrate 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

4. Emotional

- **Dependability**- job requires being reliable, responsible, and dependable, and fulfilling obligations.
- **Integrity**- job requires being honest and ethical.
- **Cooperation**- job requires being pleasant with others displaying a good-natured, cooperative attitude.
- **Self control**- job requires maintaining composure, keeping emotions in check, controlling anger and avoiding aggressive behavior even in very difficult situations.
- **Concern for others**- job requires being sensitive to others needs and feelings.
- **Initiative**- job requires a willingness to take on responsibilities and challenges.
- **Stress tolerance**- job requires accepting criticism and dealing calmly and effectively with high stress situations.
- **Adaptability/flexibility**- job requires being open to change and to considerable variety in the workplace.

Definitions from: the *Summary Report for Radiologic Technologists* (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)

If you wish to discuss reasonable accommodation, please contact the program director.

Pregnancy Policy

Pregnancy information is requested to allow the program to monitor the radiation dose received by the fetus. A pregnant student is encouraged to voluntarily inform the program director as soon as she knows she is pregnant. After a student has informed the program director of her pregnancy using the Declared Pregnancy Form, a second film badge will be issued. This second badge is to be worn at waist level, and under the lead apron, when in use. The second badge reading will be considered the fetal dose and the monthly readings will be monitored and will not exceed 500 mrem during gestation or 10 mrem per month. The student will also receive a copy of Regulatory guide number 8.13 from the Nuclear Regulatory Commission titled "Instruction Concerning Prenatal Radiation Exposure". The student will inform the program director when her pregnancy is complete using the Declared Pregnancy Form. The student may un-declare her pregnancy at any time using the Declared Pregnancy Form.

The student is responsible for normal course attendance policies.

CURRICULUM Radiologic Technology at Holyoke Community College

General Course Requirements:

	<u># credits</u>
MTH 075 Basic Mathematics – if needed	3
MTH 085 Intro to Algebra or successful completion of the math placement exam	4 (within the past 5 years)
BIO 100 <u>or</u> 103 <u>or</u> 107 (Pre-requisite for Bio 117 at HCC)	4
Other colleges may have a different pre-requisite	
BIO 117 Human Anatomy and Physiology for Health Related Programs I	4 (within the past 5 years)
BIO 118 Human Anatomy and Physiology for Health Related Programs II	4 (within the past 5 years)
ENG 101 Language and Literature I	3
ENG 102 Language and Literature II	3
SOC 110 Introduction to Sociology	3
SOC 214 Social Problems or SOC 220 Sociology of Race and Ethnicity	3
(students who already have 6 credits of social science coursework, can take CSD 114 – Cultural Diversity , to fulfill the requirement for a cultural diversity course)	

Core Curriculum :

First Fall

RDL 115 Patient Care I	2
RDL 122 Radiographic Technique and Control I	2
RDL 132 Radiographic Positioning and Related Anatomy I	3
RDL 141 Clinical Education and Lab Experience I	2

First Winter Intersession (2 weeks, 40 hours per week)

RDL 158 Clinical Internship	1
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First Spring

RDL 123 Radiographic Technique and Control II	3
RDL 133 Radiographic Positioning and Related Anatomy II	3
RDL 142 Clinical Education and Lab Experience II	3

First Summer (11 weeks, 40 hours a week)

RDL 251 Clinical Internship	4
RDL 215 Patient Care II	2

Second Fall

RDL 221 Advanced Procedures and Techniques I	3
RDL 233 Special Radiographic Studies	3
RDL 241 Clinical Education and Lab Experience III	3

Second Spring

RDL 190 Radiologic Instrumentation	3
RDL 234 Advanced Imaging and Radiobiology	3
RDL 242 Clinical Education and Lab Experience IV	3

Recommended courses for those looking for another course to fill out a schedule:

Spanish especially SPA 111 -- Spanish for Health Related Careers and/or More Algebra -- MTH 095 or 104

Radiography Dress Code

Students are expected to come prepared to the clinical area. Variations in clinical requirements will be explained by each clinical instructor. Students will wear the designated uniforms during clinical assignments adhering to the following dress code:

- UNIFORMS Navy blue scrubs. Clean. Ironed. Hospital identification as directed. White shoes. A navy cover up may be worn for those who need another layer or a white turtleneck or plain white T-shirt may be worn UNDER the uniform. Sweaters may NOT be worn over the uniform. Mid rift must not be visible.
- HAIR Neat. Clean. Longer than shoulder length hair must be pulled back off the face and off the collar. Neon hair colors are not acceptable.
- FINGERNAILS Fingernails should be clean and of reasonable length (no longer than 1/4 inch past the fingertips).
Acrylic nails are not permitted due to infection control. Nail polish is not allowed.
- JEWELRY Watch and wedding rings only. Necklaces may be worn under the uniform. For those with pierced ears, earrings must be 1 inch in diameter or less. All other visible piercing adornments must be removed.
- IDENTIFICATION Assigned student identification provided by each hospital, and dose monitor must be worn.
- MARKERS Lead markers with the student's identification are required. These are provided by the college.
- TATTOOS All tattoos must be covered.

The clinical instructor may require a student to leave the clinical area until the student is in compliance with the dress code. Time missed will affect make up time and dismissal as described in the clinical syllabi.

HCC – Greenfield Community College and Community College of Vermont equivalent courses

HCC / GCC / CCV

Course Equivalence List for the Radiologic Technology Program

<u>Holyoke Community College</u>	<u>Credit</u>	Greenfield Community College	<u>Cr.</u>	<u>Community College of Vermont</u>	
Eng 101	3	Eng 101, 103 or 105	3	Eng 1061	3
Eng 102	3	Eng 112, 114 or 116	3	Eng 1310	3
Bio 117 - Human Anatomy and Physiology I * Bio 100 or 103 or 107 pre-requisite	4	Bio 195* – Anatomy and Physiology I *High school chemistry or CHE 105 required within past 5 years	4	Bio 2011 Anatomy and Physiology 1 *Basic Chemistry Workshop or prior Biology recommended	4
Bio 118 - Human Anatomy and Physiology II	4	Bio 196 – Anatomy and Physiology II	4	Bio 2012 – Anatomy and Physiology II	4
Mth 085 Introductory Algebra	4	Mth 095 Introductory Algebra	3	Mat 0221 Basic Algebra Or Mat1030 Math Concepts	3
Social Sciences – Any 6 credits of Sociology, Psychology, Government, History, Geography, Anthropology or Economics Including one 3 credit course in cultural diversity	6	See list at left Check your college for Cultural Diversity Courses	6	See list at left Check your college for Cultural Diversity Courses	6

Radiography Program Holyoke Community College
Sample "Three year plan" semester schedules (subject to revision)

Summer General course requirements	Bio 100 or 103 or 107 Mth 075 (if needed)	4 credits Pre-requisite to A&P at <u>HCC</u> (other colleges may have a different pre-requisite)
Fall General course requirements	Bio 117 Eng 101 Social Science Mth 085 (if needed)	3 hour classroom + 2.5 hour lab 3 hour classroom 3 hours classroom 4 hours classroom per week
Spring General course requirements	Bio 118 Eng 102 Social Science	3 hour classroom + 2.5 hour lab 3 hour classroom 3 hours classroom
Core Requirements		
Fall	RDL 122 RDL 132 RDL 141 Clinical + RDL 115	Tues and Thurs 9:30 to 10:45 am Tues and Thurs 8 to 9:15 am Monday thru Friday 12 noon to 3:30 pm with 2 weeks of evening clinical 4 to 8 pm (Monday thru Friday)
Winter Intersession	RDL 151 Clinical	2 weeks during January 40 hours/week 7:45 am to 3:30 pm
Spring	RDL 123 RDL 133 RDL 142 Clinical	Tues and Thurs 9:30 am to 10:45 am Tues and Thurs 8 am to 9:15 am Mon 7:45 am to 3:30 pm And Tues and Thurs 12 noon to 3:30 pm And Fri 7:45 am to 11:30 am With 2 weeks of 4 – 8 pm (Mon thru Fri)
Summer	RDL 215 RDL 251 Clinical	within time frames below 11 weeks, usually 40 hours/week 1 week of 12:00 to 3:00 pm (first week) 8 weeks 7:45 am to 3:00 pm 2 weeks 2 pm to 9 pm leaving approx. 4 weeks of vacation over the summer, usually 1 week at the beginning, 1 week of your choice and 2 weeks at the end
Fall	RDL 221 RDL 233 RDL 241 Clinical	Tues and Thurs 2 pm to 3:15 pm Tues and Thurs 12:30 pm to 1:45 pm Mon – Fri 7:45 am to 11:30 am With 2 weeks of evening clinical 4 – 8 p.m (Mon – Fri)
Spring	RDL 190 RDL 234 RDL 242 Clinical	Tues and Thurs 2 pm to 3:15 pm Tues and Thurs 12:30 pm to 1:45 pm Tues and Thurs 7:45 am to 11:30 am And Wed 7:45 am to 3:30 pm with 2 weeks of evening clinical 4 to 8 pm (Mon - Fri)
Complete program in May		