Medical Radiography

PROGRAM DESCRIPTION

Medical Radiography is a two-year or three-year program (see reverse) that integrates scientific concepts into working skills though classroom study and intensive clinical experience. The program concentrates on diagnostic radiology, including angiography and computerized tomography. Other imaging modalities such as nuclear medicine, radiation therapy, sonography, and magnetic resonance imaging are briefly discussed.



Medical radiographers are health professionals who combine technical knowledge with radiographic and anatomical knowledge to obtain diagnostic images of all parts of the human body. Successful radiographers must have a good working knowledge of human anatomy, radiographic positioning, radiologic physics, equipment operation, and quality assurance. As members of a health care team, radiographers must also understand and apply principles of good patient care, and conduct themselves in accordance with medical ethical standards.

The Medical Radiography Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60606-3182. Graduates are eligible to sit for the national certification examination administered by the American Registry of Radiologic Technologists (ARRT), and to apply for Maine licensure in radiography.

GOALS & LEARNING OUTCOMES

GOAL #1: STUDENTS WILL DEMONSTRATE CLINICAL COMPETENCE

- Students will demonstrate knowledge of imaging principles technical selection
- Students will demonstrate competence in positioning skills
- Students will provide patient care essential to medical imaging procedures
- Students will demonstrate radiation protection
- Students will demonstrate competence in routine surgical procedures

GOAL #2: STUDENTS WILL DEMONSTRATE PROFESSIONALISM

- Students will adhere to all program and clinical affiliate policies
- Students will demonstrate the importance of life-long learning
- Students will demonstrate good attendance and punctuality practices

GOAL #3: STUDENTS WILL DEMONSTRATE PROBLEM SOLVING AND CRITICAL THINKING SKILLS

- Students will demonstrate the ability to adapt for the trauma patient
- Students will demonstrate the ability to evaluate radiographic images

GOAL #4: STUDENTS WILL DEMONSTRATE EFFECTIVE COMMUNICATION SKILLS

- Students will communicate effectively in the healthcare community
- Students will demonstrate the ability to convey their ideas using speech, graphics and writing

PREREQUISITES

Applications are accepted between September 1, and December 30 each year for fall enrollment. All prerequisites must be completed and documents in prior to February 1.

Required: High school level Algebra I, Algebra II, Geometry, Biology with Lab, and either Physics (preferred) or Chemistry with a lab.

Pre-admission exam (PSB Health Occupations Aptitude Exam—cost \$30). Attendance at an information session for selected applicants.

Questions about this highly competitive program should be directed to Stacy Green, Director of Admissions, at 207-974-4679 or sgreen@emcc.edu.

CRIMINAL BACKGROUND SCREENING

Individuals offered admission to the Medical Radiography program will be required to submit to a national criminal background screening, at a minimum cost of \$75 (may be higher), within 30 days of acceptance. Applicants who have engaged in any activity or behavior which may be considered abuse, neglect or exploitation of a minor or of an incapacitated or dependent adult, or who has been convicted of any crime involving fraud or dishonesty, or drugs, or for which imprisonment of one year or more has been imposed are urged to seek clarification regarding program completion requirements from the Director of Admissions.





Programs of Study

Automotive

Building Construction

Business Management-Career Option

Business Management-Transfer Option

Business Management-Small Business Career Studies

Computer Systems Technology

Criminal Justice

Culinary Arts

Diesel, Truck & Heavy Equipment

Digital Graphic Design

Early Childhood Education

Education-Career & Technical Ed

Education-Elementary Ed

Education-Secondary Ed

Electrical and Automation Electricians Technology

Emergency Medical Services

Fine Woodworking & Cabinet Making

Fire Science

Human Services

Liberal Studies

Medical Assistant

Medical Office-Coding Option

Medical Office-Health Care Secretary

Medical Radiography

Nursing

Outdoor Recreation & Tourism

Plumbing

Refrigeration, Air Conditioning & Heating Restaurant & Food Service Management

Surgical Technology

Trade & Technical Occupations

Welding

Admissions Office—EMCC 354 Hogan Road Bangor, ME 04401

Phone: 207-974-4680

Toll-Free: 800-286-9357 (in Maine)

FAX: 207-974-4683

Email: admissions@emcc.edu

www.emcc.edu

2 year Associate in Science Degree Curriculum

FIRST SEMESTER		CREDITS
BIO 121	Anatomy & Physiology I	3
BIO 124	Anatomy & Physiology I Laboratory	1
MAT 119	College Algebra (may substitute MAT 12	
MRT 111	Radiographic Positioning I	3
MRT 117	Radiologic Procedures I	1
MRT 121	Principles of Radiographic Exposure I	2
MRT 131	Medical Terminology	1
MRT 151	Introduction to Health Care	2
MRT 161	Clinical Education I	5
SECOND SE	EMESTER	CREDITS
BIO 122	Anatomy & Physiology II	3
BIO 126	Anatomy & Physiology II Laboratory	1
ENG 101	College Composition	3
MRT 112	Radiographic Positioning II	3
MRT 118	Radiologic Procedures II	1
MRT 119	Imaging Modalities	1
MRT 122	Principles of Radiographic Exposure II	2
MRT 162	Clinical Education II	5
MRT 164	Advanced Clinical Education (optional)	1
Elective	Any PHI or PSY (100 level or higher)	3
FIRST SUMA	MER—8 WEEK CLINICAL	CREDITS
MRT 163	Clinical Education III	5
THIRD SEME	ESTER	CREDITS
BIO 272	Radiation Biology	2
MRT 211	Radiographic Positioning III	1
MRT 251	Advanced Health Care	1
MRT 255	Pathology	1
MRT 267	Clinical Education IV	7
SPE 101	Oral Communication	3
FOURTH SEA	MESTER	CREDITS
MRT 212	Radiographic Positioning IV	1
MRT 222	Principles of Imaging Physics	1
MRT 230	Radiography Review & Career Planning	(optional) 1
MRT 264	Advanced Clinical Education V (optional)	1
MRT 270	Clinical Education V	7
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TOTAL AS DEGREE CREDITS

Radiologic Physics

Any SOC/PSY (100 level or higher)

PHY 235

Elective

3 year Associate in Science Degree Curriculum

CDEDITE

FIRST SEME	STER	CREDITS	
BIO 121	Anatomy & Physiology I	3	
BIO 124	Anatomy & Physiology I Laboratory	1	
ENG 101	College Composition	3	
MAT 119	College Algebra (may substitute MAT 12	23) 3	
MRT 101	Basic Concepts of Radiography	1	
Elective	Any SOC/PSY (100 level or higher)	3	
SECOND S		CREDITS	
BIO 122	Anatomy & Physiology II	3	
BIO 126	Anatomy & Physiology II Laboratory	1	
MRT 131	Medical Terminology	1	
Elective	Any PHI or PSY (100 level or higher)	3	
SPE 101	Oral Communication	3	
THIRD SEM		CREDITS	
MRT 111	Radiographic Positioning I	3	
MRT 117	Radiologic Procedures I	1	
MRT 121	Principles of Radiographic Exposure I	2	
MRT 151	Introduction to Health Care	2	
MRT 161	Clinical Education I	5	
FOURTH SE		CREDITS	
MRT 112	Radiographic Positioning II	3	
MRT 118	Radiologic Procedures II	1	
MRT 119	Imaging Modalities	1	
MRT 122	Principles of Radiographic Exposure II	2	
MRT 162	Clinical Education II	5	
MRT 164	Advanced Clinical Education (optional) WER—8 WEEK CLINICAL	CDEDITS	
		CREDITS	
MRT 163	Clinical Education III	5	
FIFTH SEME		2	
BIO 272 MRT 211	Radiation Biology Radiographic Positioning III		
MRT 251	Advanced Health Care	1 1	
MRT 255	Pathology	1	
MRT 267	Clinical Education IV	7	
SIXTH SEM		CREDITS	
MRT 212	Radiographic Positioning IV		
MRT 212	Principles of Imaging Physics	1	
MRT 230	Radiography Review & Career Planning		
MRT 264	Advanced Clinical Education V (optional)	(optional) 1	
MRT 270	Clinical Education V	7	
MRT 264	Advanced Clinical Education V (optional)	1	
PHY 235	Radiologic Physics	3	
	DEGREE CREDITS	79-82	
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A limited number of Extended (3-year) slots are available each year to qualified applicants and may be more suited for some students with minimal transferable credit.

DID YOU KNOW?

EMCC provides campus housing for over 260 students.

EMCC's Student Success Center offers tutoring services free of charge to our students.

EMCC students enjoy small class sizes, supportive faculty, transferable courses and leadership/engagement opportunities all for under \$4,000 per year (most programs, based on 30 credit hours, in-state rate)

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Campus tours are available. Call 207-974-4857 or schedule an appointment through our website.

For more information or to apply online, visit us on the web at

www.emcc.edu

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