



The Radiography Program Packet

The Radiography Program

A Radiographer (radiologic technologist) is an essential member of the health care team. **Radiographers** produce and process x-ray films of parts of the human body – such as bones and supportive structures – to help in the diagnosis of injury and disease. Radiographers also position patients accurately, implement safety measures to protect patients, co-workers, and themselves from dangers, and calculate the angles and arrangements of specialized equipment to produce quality images. For certain types of more complex testing, Radiographers prepare “contrast” solutions – substances that patients drink to provide a more detailed image of soft tissues in the body.

The mission of the Radiography Program at MTC (sometimes referred to as the MTC School of Radiography) provides an environment for students radiographers to become qualified and competent technologists in a health care setting. We partner with the health care community to provide higher education for radiographers, and encourage the process of life-long learning.

What Will It Take To Succeed?

To be successful, a student must make a personal commitment to attend all classes, work independently between class sessions, and complete all assignments in a timely manner.

Students in the Radiologic Technology Program will learn to...

- Demonstrate knowledge and skill to accurately position patients for imaging procedures;
- Modify standard procedures to accommodate for patient conditions and other variables to obtain quality images;
- Determine exposure factors to obtain diagnostic quality images with minimum radiation exposure;
- Recognize emergency patient conditions and initiate first aid and basic life support procedures;
- Evaluate images for appropriate positioning and image quality;
- Demonstrate knowledge and skills related to quality assurance;
- State the safe limits of equipment operation and report malfunctions to the proper authority;
- Exercise independent judgment and discretion when performing imaging procedures;
- Demonstrates an understanding of your role in the healthcare environment;
- Practice radiation protection for the patient, self, and others;
- Practice effective communication with patients and other health professionals;
- Provide basic patient care, comfort, anticipate patient needs, and patient education;
- Demonstrate an understanding of basic x-ray production and interactions;
- Demonstrate knowledge of human structure, function, and pathology; and support the profession's code of ethics and comply with the profession's standard of practice.

All students must complete the Non-Academic Standards prior to acceptance into the program. The students must have:

- Sufficient eyesight to observe patients, manipulate equipment, and evaluate radiographic quality;
- Sufficient hearing to access patient needs and communicate verbally with other health care providers;
- Sufficient verbal and written skills to communicate needs promptly and efficiently in English;
- A reading comprehension level of ability comparable to formal education;
- Sufficient gross and fine motor coordination to respond promptly, manipulate equipment, lift a minimum of 30 pounds, and possess the ability to support 175 pounds and ensure patient safety;
- The ability to work while standing, sometimes for hours; and
- Satisfactory intellectual and emotional functions to exercise independent judgment and discretion in safe technical performance of medical imaging procedures.

This work involves risks or discomfort that requires special safety precautions, additional safety education and health risk monitoring (i.e., ionizing radiation, darkroom chemicals, infectious disease). Students are required to use protective clothing or gear such as masks, gloves, and lead aprons. Please read the Radiography Student Handbook for a more detailed listing of the Non-Academic Standards.

MARION TECHNICAL COLLEGE

ADVISING SHEET
SCHOOL OF RADIOGRAPHY

Student Name (Please Print)

Phone Number

1. Student has spoken with admission counselor and understands the MTC admission requirements.
 MTC Application with Fee Math Skills ACCUPLACER
 High School Transcript (GED) Reading Skills ACCUPLACER
 College Transcript (if applicable) Technology Skills Test (TST)
 Writing Skills ACCUPLACER Understands Radiography application is separate form
2. Informed of minimum high school level coursework or successful completion of MTC coursework.
 ACCUPLACER Reading Skills Assessment 79 **OR** ACT ENG 18 **OR** ENG 0970.
 MTC Elementary Algebra ACCUPLACER 70 **OR** ACT MTH 20 **OR** MTH 0910.
Algebra: Require proficiency in Elementary Algebra Assessment or completion of the appropriate foundation course(s).
Please note the ACT/COMPASS shelf-life on the Math portion is two (2) years.
 ACCUPLACER Writing Skills Assessment 86 **OR** ACT ENG 18 **OR** successful completion of ENG 0990.
3. Successful completion of high school or college level biology and chemistry equivalent college level course with minimum grade of C **OR** SCI 1050 Principles of Biology and Chemistry.
4. Recommend high school geometry and physics.
5. Informed application for Radiography Program must be turned in by April 1st of the year requesting admission. Understands students are admitted to program based upon an Admission Point System. Understands if not selected, student must reapply for future admission.
6. Understands must have a minimum accumulative grade point average of 2.5 (4.0 scale) or equivalent from high school, or minimum 12 semester credit hours or equivalent of college credit, or successful completion of GED examination. GPA used for admission point system will be the most recent GPA.
7. Understands student must be at least 18 years of age at the end of the calendar year in which he or she is seeking admission.
8. Understands must observe in an Imaging Department within department guidelines prior to application into the Radiography Program and submit completed observation form.
9. Understands must maintain a minimum 2.0 accumulative grade point average at MTC as well as a minimum 2.0 GPA in all required program courses.
10. Understands must complete a physical examination prior to admission into the program as well as meet all non-academic standards for admission.
11. Understands must complete a drug screen facilitated by Marion Technical College. Positive drug screens will result in ineligibility for admission and/or continuation in the program. If student fails to cooperate or complete any drug screening, he or she will be considered "positive" and dismissed from the program. Understands students may be subject to random drug screens.
12. Understands that the American Registry of Radiologic Technologist Board reserves the right to deny admission to the ARRT examination if an individual has been convicted of a crime, including felony, misdemeanor, or drug-related arrests.
13. Informed of successful criminal background check and drug screen requirements. Understands potential employers may require background check and drug screening for potential employment and completion of a MTC program does not guarantee future employment. Has the student completed a **Criminal Background Disclosure Form**?
YES NO Advisor's Initials _____

Signature of Advisor

Signature of Student

Date

Social Security Number/or PID

Marion Technical College

Allied Health Programs

I understand that prior to acceptance into an Allied Health program, I will be subject to a background check including, but not limited to, an analysis of fingerprints and review of all prior criminal records. The submission of any false information to Marion Technical College shall be cause for immediate dismissal from an Allied Health program.

Do you have **any** criminal background? _____ YES _____NO

Signature of Student

Date of Birth

Printed Student Name

PowerCampus ID or Social Security

Date

RADIOLOGIC TECHNOLOGY

Associate of Applied Science Degree

(Effective Academic Year 2017-18)

Course No	Course Title	Credits	OTM, TAG, CT ² approved course	Term(s) Offered	Pre-Requisites
FIRST SEMESTER (Summer)					
ALH 1140	Healthcare Issues: Medical Law & Ethics	1		All	
ALH 1130	Health Care Medical Professionalism	1		All	
RAD 1001	Intro to Radiography Technology	2		All	None
ALH 1110	Medical Terminology	3	X	All	None
MTH 1230	Quantitative Reasoning	3		All	Placement or MTH0910 or TMT1110 or BUS1100; and, currently with MTH0930
PHY 1000	Principles of Electricity & Magnetism	2		All	MTH 0910 or higher level math
SECOND SEMESTER (Fall)					
RAD 1010	Methods of Patient Care (2/Lab)	2		All	None
RAD 1020	Radiographic Positioning and Procedures I (4/Lab)	4		FA	Program Acceptance
RAD 1100	Radiologic Technology Clinical I (16/Lab)	3		FA	Program Acceptance
SCI 1200	Anatomy and Physiology I (4/Lab)	4	X	FA	SCI1050 or equivalent
RAD 1052	Radiation Physics	2		FA	PHY1000 & Program Acceptance
THIRD SEMESTER (Spring)					
RAD 1030	Radiographic Positioning and Procedures II (4/Lab)	4		SP	RAD1020
RAD 1061	Principles of Radiographic Exposure	2		SP	RAD1052
RAD 1200	Radiologic Technology Clinical II (16/Lab)	3		SP	RAD1100
SCI 1250	Anatomy and Physiology II (4/Lab)	4	X	SP	SCI1200
FOURTH SEMESTER (Summer)					
ENG 1000	English Composition I	3	X	All	OIS1240 or concurrent or exam
RAD 1300	Radiologic Technology Clinical III (32/Lab)	4		SU	RAD1200
OIS 1240	Computer Applications I	3		All	OIS1200
FIFTH SEMESTER (Fall)					
RAD 2000	Advanced Imaging Procedures & Equipment	2		FA	RAD1040
ENG 1100	English Composition II	3	X	All	ENG1000
HSS 2020	Ethnic and Cultural Diversity	3	X	All	None
RAD 2101	Radiologic Technology Clinical IV (16/Lab)	2		FA	RAD1300
SIXTH SEMESTER (Spring)					
RAD 2030	Radiobiology	1		SP	Program Approval
RAD 2050	Radiographic Pathology	1		SP	Program Approval
RAD 2060	Radiographic Review	1		SP	Program Approval
RAD 2201	Radiologic Technology Clinical V (16/Lab)	2		SP	RAD2101

Credit Hour Total 65

¹ Human Growth and Development recommended

**MARION TECHNICAL COLLEGE
SCHOOL OF RADIOGRAPHY
ADMISSION SCORING**

GRADE POINT AVERAGE:

GPA x 10 points = Max 40 points

Minimum 2.5 accumulative grade point average. Most recent high school or college GPA will be used. Minimum 12 credit hours of college-level credits must be used to evaluate college GPA. PSEO student's high school GPA will be combined and averaged with their college GPA.

OBSERVATION HOURS:

32 hours minimum. Max 30 points.

Completion of RAD 1001 and/or RAD1010 + 8 observation hours awarded per completed class.

32 hours = 10 points
50 hours = 11 points
75 hours = 12 points + 0-18 points based on 3 different registered sonographers recommendations.

TECH PREP: 3 points

Completion of 2 year Health Technologies program with a final grade of A/B

RAD CURRICULUM: 5 points each course. Max 35 points.

Successfully completed coursework prior to admission deadline will be considered. All coursework must be "C" or better.

SCI 1200 Anatomy & Physiology I	+5
SCI 1250 Anatomy & Physiology II	+5
MTH 1230 Quantitate Reasoning	+5
ALH 1100 Medical Terminology	+5
PHY 1000 Principles of Electricity and Magnetism	+5
RAD 1001 Introduction to Radiography	+5
RAD 1010 Methods of Patient Care	+5

Total Curriculum Points:

ACCUPLACER (PLACEMENT TESTING): Max 10 points

Scores indicate no remedial coursework required (no partial points will be awarded). = 10 points

Scores indicate remedial coursework and all remedial coursework successfully completed (no partial points awarded). = 8 points

TOTAL APPLICANT SCORE:
