



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 College Ready Placement
____ High School Transcript (GED)	____ Reading Skills College Ready Placement
____ College Transcript (if applicable)	____ Technology Skills Test (TST)
____ Writing Skills College Ready Placement	____ Understands Radiography application is separate form
2. ____ Informed of minimum high school level coursework or successful completion of MTC coursework.

____ Reading Skills: College Level Placement
____ Stats: College Level Placement Shelf-life on the Math portion is three (3) years.
____ Writing Skills: College Level Placement
3. ____ Biology and Chemistry: College Level Placement
4. ____ Recommend high school geometry and physics.
5. ____ Informed application for Radiography Program must be turned in by May 17th 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 2020-21)

Course No	Course Title	Credits	OTM, TAG, CT ² approved course	Term(s) Offered	Course Requirements
FIRST SEMESTER (Summer)					
ALH1140	Healthcare Issues: Medical Law & Ethics	1		ALL	None
ALH1130	Healthcare Issues: Medical Professionalism	1		ALL	None
RAD1001	Introduction to Radiologic Technology	2		ALL	None
ALH1110	Medical Terminology	3	OHL020; CTMT001.	ALL	None
MTH1240	Statistics	3	OTM-TMM010	ALL	Appropriate Placement Score or MTH0910.
ALH1190	Physics for Allied Health	2		FA, SP	Appropriate Placement Score or MTH0910.
SECOND SEMESTER (Fall)					
RAD1010	Methods of Patient Care	2		ALL	None
RAD1020	Radiographic Positioning & Procedures I	4		FA	RAD1001 and Program Permission
RAD1100	Radiologic Technology Clinical I	3		FA	RAD1001 and Program Permission.
SCI1200	Anatomy & Physiology I	4		ALL	SCI1050 or equivalent.
RAD1052	Radiation Physics	2		FA	ALH1190 and Program Permission.
THIRD SEMESTER (Spring)					
RAD1030	Radiographic Positioning & Procedures II	4		SP	RAD1020 and Program Permission
RAD1061	Principles of Radiographic Exposure	2		SP	RAD1052 and Program Permission.
RAD1200	Radiologic Technology Clinical II	3		SP	RAD1100 and Program Permission.
SCI1250	Anatomy & Physiology II	4	OTM-TMNS	ALL	SCI1200
FOURTH SEMESTER (Summer)					
ENG1000	English Composition I	3	TME001	ALL	Appropriate Placement Score or ENG0990.
RAD1300	Radiologic Technology Clinical III	4		SU	RAD1200 and Program Permission.
OIS1240	Computer Applications	3	OBU003	ALL	Appropriate Placement Score or OIS1200.
FIFTH SEMESTER (Fall)					
RAD2000	Advanced Imaging Procedures & Equipment	2		FA	RAD1061, RAD1030 and Program Permission.
ENG1100	English Composition II	3	TME002	ALL	ENG1000
SOC2020	Ethnic & Cultural Diversity	3		ALL	Appropriate Placement Score.
RAD2101	Radiologic Technology Clinical IV	2		FA	RAD1300 and Program Permission.
SIXTH SEMESTER (Spring)					
RAD2030	Principles of Radiobiology	1		SP	RAD2000 and Program Permission.
RAD2050	Radiographic Pathology	1		SP	RAD2000 and Program Permission.
RAD2060	Radiographic Review	1		SP	RAD2000
RAD2201	Radiologic Technology Clinical V	2		SP	RAD2101 and Program Permission.

Credit Hour Total 65

**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. Minimum of 3 sites.

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

32 hours = 10 points + 0-18 points based on 3 different
50 hours = 11 points registered sonographers
75 hours = 12 points 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 1240 Statistics	+5
ALH 1100 Medical Terminology	+5
ALH 1190 Physics for Allied Health	+5
RAD 1001 Introduction to Radiography	+5
RAD 1010 Methods of Patient Care	+5

Total Curriculum Points: _____

TOTAL APPLICANT SCORE: _____

