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 require 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.
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. Understanding 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

JA: 5-24-2011/Advising Sheet Checklist 2011/2-PART FORMS/
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

Carla/Deb: Criminal Background Disclosure
February 4, 2010
# Radiologic Technology

**Associate of Applied Science Degree**  
(Effective Academic Year 2017-18)

<table>
<thead>
<tr>
<th>Course No</th>
<th>Course Title</th>
<th>Credits</th>
<th>OTM, TAG, CT(^2) approved course</th>
<th>Term(s) offered</th>
<th>Pre-Requisites</th>
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<tbody>
<tr>
<td>ALH 1140</td>
<td>Healthcare Issues: Medical Law &amp; Ethics</td>
<td>1</td>
<td>All</td>
<td>All</td>
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<td>ALH 1130</td>
<td>Health Care Medical Professionalism</td>
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<tr>
<td>RAD 1001</td>
<td>Intro to Radiography Technology</td>
<td>2</td>
<td>All</td>
<td>None</td>
<td>Placement or MTH910 or TMT1110 or BUS1100; and, currently with MTH9930 MTH 9910 or higher level math</td>
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<tr>
<td>ALH 1110</td>
<td>Medical Terminology</td>
<td>3  (X)</td>
<td>All</td>
<td>None</td>
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<td>MTH 1230</td>
<td>Quantitative Reasoning</td>
<td>3</td>
<td>All</td>
<td>Placement or MTH910 or TMT1110 or BUS1100; and, currently with MTH9930 MTH 9910 or higher level math</td>
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<tr>
<td>PHY 1000</td>
<td>Principles of Electricity &amp; Magnetism</td>
<td>2</td>
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<td>Placement or MTH910 or TMT1110 or BUS1100; and, currently with MTH9930 MTH 9910 or higher level math</td>
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## Second Semester (Fall)

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<tbody>
<tr>
<td>RAD 1010</td>
<td>Methods of Patient Care (2/Lab)</td>
<td>2</td>
<td>All</td>
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<td>RAD 1020</td>
<td>Radiographic Positioning and Procedures I (4/Lab)</td>
<td>4</td>
<td>FA</td>
<td>Program Acceptance</td>
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<td>RAD 1100</td>
<td>Radiologic Technology Clinical I (16/Lab)</td>
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<td>FA</td>
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<tr>
<td>SCI 1200</td>
<td>Anatomy and Physiology I (4/Lab)</td>
<td>4</td>
<td>X</td>
<td>SCI1050 or equivalent</td>
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<tr>
<td>RAD 1052</td>
<td>Radiation Physics</td>
<td>2</td>
<td>FA</td>
<td>PHY1000 &amp; Program Acceptance</td>
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## Third Semester (Spring)

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<td>RAD 1030</td>
<td>Radiographic Positioning and Procedures II (4/Lab)</td>
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<td>RAD 1061</td>
<td>Principles of Radiographic Exposure</td>
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<td>RAD 1200</td>
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<td>SCI 1250</td>
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## Fourth Semester (Summer)

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<tbody>
<tr>
<td>ENG 1000</td>
<td>English Composition I</td>
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<td>X</td>
<td>All</td>
<td>OIS1240 or concurrent or exam</td>
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<td>RAD 1300</td>
<td>Radiologic Technology Clinical III (32/Lab)</td>
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<tr>
<td>OIS 1240</td>
<td>Computer Applications I</td>
<td>3</td>
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## Fifth Semester (Fall)

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<tbody>
<tr>
<td>RAD 2000</td>
<td>Advanced Imaging Procedures &amp; Equipment</td>
<td>2</td>
<td>FA</td>
<td>RAD1040</td>
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<tr>
<td>ENG 1100</td>
<td>English Composition II</td>
<td>3</td>
<td>X</td>
<td>All</td>
<td>ENG1000</td>
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<tr>
<td>HSS 2020</td>
<td>Ethnic and Cultural Diversity</td>
<td>3</td>
<td>X</td>
<td>All</td>
<td>None</td>
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<td>RAD 2101</td>
<td>Radiologic Technology Clinical IV (16/Lab)</td>
<td>2</td>
<td>FA</td>
<td>RAD1300</td>
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## Sixth Semester (Spring)

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<tr>
<td>RAD 2030</td>
<td>Radiobiology</td>
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<td>Program Approval</td>
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<td>RAD 2050</td>
<td>Radiographic Pathology</td>
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<td>RAD 2060</td>
<td>Radiographic Review</td>
<td>1</td>
<td>SP</td>
<td>Program Approval</td>
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<tr>
<td>RAD 2201</td>
<td>Radiologic Technology Clinical V (16/Lab)</td>
<td>2</td>
<td>SP</td>
<td>RAD2101</td>
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**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 RAD 1010 + 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 Quantitative 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:**