

# Radiologic Technology Program

## Miles City Site

### Associate of Applied Science Degree

#### AY 2009-10

Radiologic Technologists use x-ray equipment to produce images of the tissue, organs, bones and vessels of the body. Radiology Technologists are medical professionals who perform diagnostic imaging examinations and administer radiation therapy treatments. A career in radiology technology can lead in many directions. There are many specialty areas with specific imaging techniques for radiology technologists to advance into. Demand is strong across the country. Work settings vary from large hospitals, to suburban outpatient clinics, to rural physician offices.

The Radiologic Technology program includes anatomy, biology, radiation safety and physics. Students learn to use computers and electronic equipment. It is one of the fastest-growing professions in the country.

Montana Tech COT Radiologic Technology program is a collaborative program between MT Tech COT and Miles Community College. Admission to Miles Community College and/or Montana Tech does not guarantee acceptance into the Radiologic Technology (RT) program. Students entering with the intent to become a radiology technologist are accepted into the program through a formal selection process and will graduate from MT Tech COT. Students completing the 2-year AAS degree must sit for a national certification test before they may enter the workforce.

Students planning to study radiology technology need a strong educational health core and must be competent in computer skills. The plan of study includes 17 credits for the first fall semester. These credits are the basis for selecting students into the program. The minimum selective GPA for consideration into the RT program is 2.75. Other selection criteria include computer proficiency demonstrated by completion of \*I.T. 120 Introduction to Computers (or similar course) or demonstrate a successful challenge of I.T. 120. Students can also submit a letter from previous and/or current employers verifying that computer proficiency has been demonstrated. The letter needs to be written from the employer on their official letterhead paper.

A limited number of students are admitted spring semester of each year. Students apply for the Butte sites or the Miles City site. If the number of qualified applicants exceeds the available space, not all qualified applicants will be accepted. Since the competitive selection is based mainly on GPA, students with higher GPAs are most likely to be accepted. Please refer to the Point System Worksheet that will be used for the selection process.

#### **Fall Entry – Prerequisites**

##### 1st Semester

|     |     |                        |    |
|-----|-----|------------------------|----|
| *SC | 204 | Anatomy & Physiology I | 4  |
| *SC | 107 | General Chemistry      | 4  |
| *CA | 101 | Composition I          | 3  |
| *MA | 102 | Intermediate Algebra   | 3  |
| *PY | 101 | General Psychology     | 3  |
|     |     | Total                  | 17 |

#### **Spring Entry – Radiology Program**

##### 2nd Semester

|        |      |                              |    |
|--------|------|------------------------------|----|
| *SC    | 205  | Anatomy & Physiology II      | 4  |
| **RAD  | 0110 | Introduction to Imaging      | 3  |
| **RAD  | 0111 | Radiographic Procedures I    | 3  |
| **RAD  | 0121 | Radiographic Imaging Physics | 4  |
| ***RAD | 0151 | Clinical Ed. I               | 4  |
|        |      | Total                        | 18 |

#### **Summer Semester (3<sup>rd</sup>)**

|        |      |                              |    |
|--------|------|------------------------------|----|
| ***RAD | 0161 | Radiographic Clinical Ed. II | 10 |
|--------|------|------------------------------|----|

#### **4<sup>th</sup> Semester**

|        |      |                               |    |
|--------|------|-------------------------------|----|
| **RAD  | 0141 | Radiation Protection          | 2  |
| **RAD  | 0122 | Radiographic Imaging II       | 3  |
| **RAD  | 0211 | Radiographic Procedures II    | 3  |
| ***RAD | 0251 | Radiographic Clinical Ed. III | 8  |
|        |      | Total                         | 16 |

#### **5<sup>th</sup> Semester**

|        |      |                              |    |
|--------|------|------------------------------|----|
| *HU    | 225  | Medical Ethics and Law       | 3  |
| **RAD  | 0219 | Advanced Imaging III         | 2  |
| **RAD  | 0245 | Radiographic Analysis        | 2  |
| ***RAD | 0261 | Radiographic Clinical Ed. IV | 6  |
|        |      | Total                        | 13 |

\*Miles City Campus

\*\*Web-based courses offered through MT Tech COT with face-to-face portions at MCC

\*\*\*Hospital based

Students must contact the RT academic advisor at Miles Community College to assure proper course sequencing and for the formal application into the RT Program.

**MontanaTech**  
**COLLEGE OF TECHNOLOGY**

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