RADIOLOGIC TECHNOLOGY, AAS

Associate of Applied Science, Radiologic Technology: The mission of this program is to provide general and basic science education, combined with a sound foundation in the theory and art of Radiologic Technology to meet the educational needs of the students. This is evidenced by a competency-based program employing various teaching methodologies and technologies delivered through quality instruction. Graduates will have the knowledge and skills necessary to successfully take the American Registry of Radiologic Technologist’s Examination for Radiographers and become a member of the health care team. Once selected for the Program, students complete 21 months of educational experiences. As part of the curriculum, students spend 1,680 hours in clinical education experiences conducted in cooperation with departments of radiology in Reno, Sparks and Carson City.

Accreditation information can be found on the Radiologic Technology Website. (http://www.tmcc.edu/radiologic-technology/)

Outcomes
Students completing the degree will:

• Demonstrate a working knowledge of positioning, technical factors, and imaging critique.
• Practice radiation safety in accordance with the ALARA principle.
• Prepare a written communication project.
• Apply effective oral communication skills.
• Determine necessary adjustments for trauma examinations.
• Evaluate radiographic images for diagnostic quality.
• Apply the ARRT Code of Ethics.
• Demonstrate Professionalism in the clinical setting.

Radiologic Technology Program Information

The TMCC Radiologic Technology Program prepares the graduate to practice as a registered radiologic technologist. The program meets the minimum degree requirements for the Associates of Applied Sciences (AAS) degree. The AAS degree in radiologic technology is awarded upon completion of the curriculum and the student will be eligible to apply to take the national certification examination administered by the American Registry of Radiologic Technologists (ARRT) in radiography.

After passing the ARRT certification examination the graduates are eligible to apply for licensure in the state of their choice. Each state has specific criteria for licensure eligibility. It is the student’s responsibility to contact the state to ascertain eligibility requirements. Graduation from an accredited program and passing the ARRT certification examination may not be the only requirements of certain states and does not mean automatic licensure. The State of Nevada does not currently have licensure requirements for technologists however, most hospitals and clinics where radiography is performed requires employees to be ARRT certified.

The ARRT adheres to a strict code of ethics. The purpose of the ethics requirement is to identify individuals who have internalized a set of professional values that causes one to act in the best interests of the patient. The ARRT Standards of Ethics provides proactive guidance on what it means to be a qualified radiographer and to motivate and promote a culture of ethical behavior with the profession. The ethics requirements support the ARRT’s mission of promoting high standards of patient care by removing or restricting the use of the credential by those who exhibit behavior inconsistent with the ethics requirements.

Graduates from TMCC’s Radiologic Technology Program are eligible to apply for and take the American Registry of Radiologic Technologists (ARRT) Examination for Radiographers. The ARRT is the only organization granting permission to take the examination. Persons with prior felony or misdemeanor convictions may be admitted to the program but may be prohibited by the ARRT from taking the examination due to the ethics requirements. The ARRT will conduct a pre-application review to determine the impact of a conviction on eligibility. Pre-application Review Forms may be requested from the Department of Regulatory Services at the ARRT office, 651-687-0048.

Background Check and Drug Testing
The hospitals associated with the program require a background check and drug testing to insure the safety of the patients treated by program students. Students selected for the program will be required to comply prior to starting the program (instructions to be provided by the program director after being selected for admission to the Radiologic Technology Program). If a student background check is unsatisfactory to the facility they are assigned or has an unsatisfactory drug test, the student will not be permitted to participate in the clinical portion of the program. Students will be withdrawn from the program if clinical requirements are not able to be met for any reason. TMCC will not be responsible for students obtaining background checks and will not receive the results of any background investigations.

Accreditation

Truckee Meadows Community College is fully accredited by Northwestern Commission on Colleges and Universities (NWCCU) and the Joint Review Committee on Education in Radiologic Technology (JRCERT). NWCCU is an institutional accrediting body recognized by the Council for Higher Education Accreditation and the United States Department of Education (USDE). The JRCERT is a programmatic accrediting body recognized by the USDE to accredit radiography programs. Both accrediting agencies are acceptable to the ARRT which allows students to sit for the national certification examination in radiography.

Admission to the Radiologic Technology Program

The Radiologic Technology Program begins each fall semester. Admission to the program is limited and requires specific admission requirements and procedures. Students are selected by means of a formal program application and the calculation of assigned points. Applicants must be at least 18 years of age at the beginning of the program.

Program Application Process
Complete the following:

• Submit an application for admission to the College.
• Have completed the following courses with a grade of "C" or better.

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>BIOL 190A</td>
<td>Introduction to Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 190L</td>
<td>Introduction to Cell and Molecular Biology Laboratory</td>
<td>1</td>
</tr>
</tbody>
</table>
Acceptable Alternative Documentation for CNA

- Completion of a radiography program that is not ARRT certified.
- Completion of a registered nursing program

Note: CNA or nursing courses from other accredited colleges may be acceptable, but must be approved by TMCC. These courses must be documented through official transcripts on file with TMCC's records office before applying to the program. Certification is not required however the courses must be eligible to take the state licensure examination.

After Acceptance to the Program

After selection for admission, in response to a letter from the program director, the student will provide documentation of the following prior to the first day of class:

- Evidence of current major medical insurance coverage.
- Evidence of two negative TB skin tests done within the past year with no more than two attempts including Audits and Withdrawals
- Have a minimum grade point average of 2.7 in all coursework applying to the Associate of Applied Science Radiologic Technology Degree.
- Submit an official transcript showing proof of high school graduation or official results of high school equivalency to admissions and records office.
- Complete an Essentials Function form for Clinical Education.
- Complete a minimum of 15 units within the college.
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AAS degrees are generally non-transfer degrees that are designed for students to enter the workforce.

To earn an AAS degree, students must:

1. Maintain a minimum cumulative GPA of 2.0 (see requirements for graduation.)
2. Complete a minimum of 15 units within the college.
3. Satisfy General Education requirements for the AAS (http://catalog.tmcc.edu/degrees-certificates/general-education/aas/).
4. Have no financial or library obligation to the college.

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<td>Introduction to Cell and Molecular Biology</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 223</td>
<td>Human Anatomy and Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>BIOL 224</td>
<td>Human Anatomy and Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>ENG 100</td>
<td>Composition Enhanced</td>
<td>3</td>
</tr>
<tr>
<td>or ENG 101</td>
<td>Composition I</td>
<td></td>
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<tr>
<td>or ENG 113</td>
<td>Composition I for International Students</td>
<td></td>
</tr>
<tr>
<td>MATH 120</td>
<td>Fundamentals of College Mathematics (or higher, and is a prerequisite for the program)</td>
<td>3</td>
</tr>
<tr>
<td>RAD 101</td>
<td>Exploration of Radiology</td>
<td>0.5</td>
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General Education Requirements

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<tr>
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<tbody>
<tr>
<td>English</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fine Arts/Humanities/Social Science</td>
<td>3</td>
<td></td>
</tr>
<tr>
<td>Recommended:</td>
<td>Take a course that also satisfies Diversity</td>
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Mathematics
### Science

**Additional College Requirements**

- **Diversity**
  - Recommended: Take a course that also satisfies Fine Arts/Social Science/Humanities

**Human Relations**

- Recommended: EPY 101 Educational, Career, and Personal Development

**U.S. and Nevada Constitutions**

- Recommended: PSC 101 Introduction to American Politics

### Degree Requirements

- **RAD 103** Medical Ethics 1
- **RAD 110** Fundamentals of Clinical Radiography I 2
- **RAD 112** Patient Care and Medical Terminology 2
- **RAD 116** Radiography I 3
- **RAD 118** Radiology Physics and Circuitry 3
- **RAD 124** Radiographic Photography and Techniques 3
- **RAD 125** Clinical Radiography I 2
- **RAD 126** Radiography II 3
- **RAD 128** Imaging Equipment 3
- **U.S. and Nevada Constitutions**
  - Recommended: PSC 101 Introduction to American Politics 3

### Course Requirements

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### Total Units

73.5

2 General Education/Additional College degree requirements may be taken prior to program or in the sequence listed below. A grade of “C” or better is required.

3 Course may also count toward degree requirements. Please consult with Academic Advisement.

4 A grade of “C” or better is required.

### Code | Title | Units
---|---|---
| **RAD 101** | Exploration of Radiology | 0.5 |

All radiologic courses must be taken in the sequence listed and completed with a grade of ‘C’ or better.

### 1st semester

- **HIT 180** Health Information Management 3
- **RAD 103** Medical Ethics 1
- **RAD 110** Fundamentals of Clinical Radiography I 2
- **RAD 112** Patient Care and Medical Terminology 2
- **RAD 116** Radiography I 3
- **RAD 118** Radiology Physics and Circuitry 3

**Semester Total** 17.5

### 2nd semester

- **RAD 124** Radiographic Photography and Techniques 3
- **RAD 125** Clinical Radiography I 2
- **RAD 126** Radiography II 3
- **RAD 128** Imaging Equipment 3
- **U.S. and Nevada Constitutions**
  - Recommended: PSC 101 Introduction to American Politics 3

**Semester Total** 14

### 3rd semester

- **RAD 220** Clinical Radiography II 3

**Semester Total** 3

### 4th semester

- **Communications/English**
  - **RAD 230** Clinical Radiography III 3
  - **RAD 236** Radiographic Contrast-Routine Exams 2
  - **RAD 238** Radiation Safety and Protection 2
  - **RAD 244** Diagnostic and Therapeutic Radiation 2
  - **RAD 247** Radiography Quality Control 1

**Semester Total** 13

### 5th semester

- **Fine Arts/Humanities/Social Science** (Take a course that is also a Diversity)
  - **RAD 242** Radiography Quality Management 1
  - **RAD 245** Clinical Radiography IV 3
  - **RAD 259** Seminar in Radiography 2

**Semester Total** 12

### Total Units

74.5

5 After completing prerequisites, students apply for admission to the Radiologic program.

6 See approved General Education list for the AAS Degree. (http://catalog.tmcc.edu/degrees-certificates/general-education/aas/)

7 See program recommendations or requirements.