See Updates and Clarifications to 2017/18 Catalog

(051) Associate in Applied Science

(Diagnostic X-ray Technology)

Radiographers perform diagnostic imaging exams, administer contrast media, and operate radiographic equipment to perform a variety of imaging procedures including diagnostic X-rays, CT scans, magnetic resonance imaging (MRI) exams, bone densitometry, mammography, cardiovascular interventional studies, and additional specialties in nuclear medicine, ultrasound, and radiation therapy.

Work and Employment

Radiographers work in hospitals, clinics, doctors' offices, government health agencies and research hospitals. According to the U.S. Department of Labor, the demand for radiologic technologists is expected to grow as X-ray and other radiologic specialties are increasingly used to diagnose and treat diseases.

Special Considerations

Graduates must pass a national registry exam to be certified and registered. With additional on-the-job training or formal schooling radiographers may become certified and registered in ultrasound, nuclear medicine, radiation therapy, CT, MRI, mammography, bone densitometry, cardiovascular and quality assurance. With advanced degrees, they may become managers, instructors and administrative technologists.

Admission Requirements:

1. **Biology - Anatomy and Physiology** (One of these following criteria must be met. The most recent score or grade will be utilized. Multiple attempts at anatomy and physiology may be a factor in the admission process.)
    - *BIO 108 or BIO 109 or BIO 110* with a grade "C" or better
    - Two semesters (One year) of high school *Anatomy and Physiology* with a "C" or better within the last five years.
    - Equivalent Anatomy and Physiology course at another college or university with a grade "C" or better.
2. **Mathematics** (One of these following criteria must be met. The most recent score or grade will be utilized.)
    - Placed into MAT 081 (Intermediate-Algebra) or MAT 106 (Applied Math) or higher or its equivalent.
    - Completed MAT 075 (Elementary-Algebra), MAT 081 (Intermediate Algebra formerly MAT 105), MAT 076 (Geometry) OR **initial** approved Rad Tech general education math course with a grade of "C" or better.
    - Equivalent math course at another college or university with a grade "C" or better.
    - Two semesters of high school algebra with a "C" or better within the last five years.
3. **English Language Arts** (One of these following criteria must be met. The most recent score or grade will be utilized.)
    - Placed into ENG 101 using SVCC Placement or ACT writing score.
    - Completed ELA 099 (formerly ENG 99/100) or ENG 101 with a grade of "C" or higher.
    - Completed an equivalent English course at another college or university with a grade "C" or higher.
4. **Other**
   A minimum of SIX hours of earned college credit from the required General Education Courses with at least an overall GPA of 2.5 or higher OR, for students without any earned college credit (exception high school dual credit program), application within two years of high school with an ACT score in the 45th percentile, overall high school GPA of 2.5 or higher, grades of "C" or better in four semesters (two years) of high school laboratory sciences, and grades of "C" or better for two semesters (one year) of high school algebra.

Admission Procedures

1. Complete the College general admission procedure.
2. Attend an information meeting.
3. File an application form with the Office of Health Professions.
4. Complete an academic plan with the Health Advisor.
5. Two letters of recommendation on file in the Office of Health Professions.

6. Appointment with Coordinator of Radiologic Technology.
7. Complete TEAS V test though SVCC testing center or other approved ATI testing center.
8. A "point system" will be utilized to evaluate all qualified applicants. Applicants will be awarded points for completion of specific general education and program admission requirements. These are explained in the Radiologic Technology Admission Handbook given out at the informational meeting.

Program Requirements

NRS 116, Medical Technology for Health Careers, must be completed with a grade of "C" or above prior to starting the first semester RAD courses. A course accepted as equivalent in transfer from another institution may require a "B" or better due to differences in course grading scales. See the health counselor for more information. A grade of "C" is the minimum passing grade for all major field requirements, communications, life science, and mathematics courses. A "C" average must be maintained in all other general education requirements. Successful completion of a radiologic technology course requires a "C" in the classroom and a "C" in the clinical experience. A student who is unsatisfactory in any one of these areas will receive a failing grade for the course. If a RAD course is failed, it may be repeated once by going through a readmission to the program. No more than one RAD course may be repeated.

Application Deadlines

The SVCC admission policy requirements and minimum Radiologic Technology Academic Admission Requirements must be completed by the priority screening deadline of March 1 of the year the applicant wishes to be admitted. A second evaluation will be implemented for qualified students after the additional screening deadline of June 1. Students who apply after the application deadlines will be evaluated as spaces are available.

Out-of-District Application

Sauk Valley Community College is required by law to give preference to in-district resident candidates. Out-of-district applicants will be considered if space is available after June 1 of the year of application to enter the program. Out-of-district applicants to the program coming from colleges with cooperative agreements will be given the same consideration as in-district applicants according to availability of out-of-district clinical sites.

Accreditation

The Radiologic Technology program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Program Contacts at Sauk Valley Community College
Academic Advising, 815/835-6354;
Dianna Brevitt, Coordinator Radiologic Technology, 815/835-6362.

Major Field Requirements - Sem/Hrs: 52.5

- NRS 116 - Medical Terminology for Health Careers 3 Semester hour(s)
- RAD 100 - Radiologic Technology Introduction .50 Semester hour(s)
- RAD 101 - Radiologic Technology Clinical Experience I 3 Semester hour(s)
- RAD 102 - Radiologic Technology Clinical Experience II 3 Semester hour(s)
- RAD 103 - Radiologic Technology Clinical Experience III 2 Semester hour(s)
- RAD 110 - Technical Nursing I 1 Semester hour(s)
- RAD 111 - Technical Nursing II 1 Semester hour(s)
- RAD 120 - Radiologic Technology Anatomy and Positioning I 5 Semester hour(s)
- RAD 121 - Radiologic Technology Anatomy and Positioning II 5 Semester hour(s)
- RAD 122 - Radiologic Physics 3 Semester hour(s)
- RAD 200 - Venipuncture for Radiologic Technology 1 Semester hour(s)
- RAD 201 - Radiologic Technology Clinical Experience IV 5 Semester hour(s)
- RAD 202 - Radiologic Technology Clinical Experience V 5 Semester hour(s)
- RAD 220 - Image Production in Radiography 3 Semester hour(s)
- RAD 221 - Pathology and Advanced Imaging Modalities in Diagnostic Imaging 4 Semester hour(s)

- RAD 222 - Ionizing Radiation in Medicine 3 Semester hour(s)
- RAD 223 - Cross Sectional Anatomy 3 Semester hour(s)
- RAD 224 - Registry Review 2 Semester hour(s)

General Education Requirements - Sem/Hrs: 13

- Communications 3 Semester hour(s)
- *Mathematics (MAT 106 or MAT 121 or higher required) 3 Semester hour(s)
- *Life Science **(BIO 108 required) 4 Semester hour(s)
- Social/Behavioral Science (PSY 103 recommended) 3 Semester hour(s)

SVCC Requirement - Sem/Hrs: 1

- FYE 101 - First Year Experience 1 Semester hour(s)

Total Hours Required for A.A.S. Degree: 66.5

Footnote

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*MAT 121or higher, BIO 109, 110, CHE 103, PHY 175 are recommended for those intending to continue their education.

**BIO 109 and BIO 110 can be used in lieu of BIO 108

OPTION I

Suggested Program

First Semester - Sem/Hrs: 14

- Natural Science (BIO 108 or BIO 109) 4 Semester hour(s)

- FYE 101 - First Year Experience 1 Semester hour(s)
- RAD 101 - Radiologic Technology Clinical Experience I 3 Semester hour(s)
- RAD 110 - Technical Nursing I 1 Semester hour(s)
- RAD 120 - Radiologic Technology Anatomy and Positioning I 5 Semester hour(s)

Second Semester - Sem/Hrs: 15-19

- * Natural Science (BIO 110) 0-4 Semester hour(s)
- Mathematics (MAT 106 or MAT 121 or higher) 3 Semester hour(s)
- Communications 3 Semester hour(s)

- RAD 102 - Radiologic Technology Clinical Experience II 3 Semester hour(s)
- RAD 111 - Technical Nursing II 1 Semester hour(s)
- RAD 121 - Radiologic Technology Anatomy and Positioning II 5 Semester hour(s)

Summer Session - Sem/Hrs: 8

- Social/Behavioral Science 3 Semester hour(s)

- RAD 103 - Radiologic Technology Clinical Experience III 2 Semester hour(s)
- RAD 122 - Radiologic Physics 3 Semester hour(s)

Third Semester - Sem/Hrs: 13

- RAD 200 - Venipuncture for Radiologic Technology 1 Semester hour(s)
- RAD 201 - Radiologic Technology Clinical Experience IV 5 Semester hour(s)
- RAD 220 - Image Production in Radiography 3 Semester hour(s)
- RAD 221 - Pathology and Advanced Imaging Modalities in Diagnostic Imaging 4 Semester hour(s)

Fourth Semester - Sem/Hrs: 13

- RAD 202 - Radiologic Technology Clinical Experience V 5 Semester hour(s)
- RAD 222 - Ionizing Radiation in Medicine 3 Semester hour(s)
- RAD 223 - Cross Sectional Anatomy 3 Semester hour(s)
- RAD 224 - Registry Review 2 Semester hour(s)

Optional Session - Sem/Hrs: 2

- RAD 250 - Radiologic Technology Clinical Electives 2 Semester hour(s)

Footnote

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* For students taking BIO 109 and 110 sequence.

OPTION II

Suggested Program

Students complete the general education requirements prior to admission. These requirements include:

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  or
- [[permalink=14|dynamic]][[/permalink]]
  and
- [[permalink=15|dynamic]][[/permalink]]
- Humanities/Fine Arts, 3 semester hours
- [[permalink=16|dynamic]][[/permalink]]
  or
- [[permalink=17|dynamic]][[/permalink]]
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- [[permalink=19|dynamic]][[/permalink]]

The sequence of the RAD classes would then be the same as in Option I. Students considering going into advanced imaging areas should consider the following electives: MAT 121, CHE 103, PHY 175.

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