

## (051) Associate in Applied Science

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### (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

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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. Click here for further career information: <https://www.svcc.edu/academics/programs/individual/051.html>

### Special Considerations

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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:

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- 1. Biology - Anatomy and Physiology** (One of these following criteria must be met. Any valid standard of proficiency listed below can be utilized to apply. 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. Any valid standard of proficiency listed below can be utilized to apply.)
  - 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. Any valid standard of proficiency listed below can be utilized to apply.)
  - 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

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1. Complete the College general admission procedure.
2. Attend an information meeting.
3. Complete an academic plan with the Health Advisor.

4. Two letters of recommendation on file in the Office of Health Professions.
5. Complete TEAS V test through SVCC testing center or other approved ATI testing center.
6. File an application form with the Office of Health Professions by the application deadline.
7. 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**

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NRS 116, Medical Technology for Health Careers and RAD 100 Radiologic Technology Introduction, 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**

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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**

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Sauk Valley Community College is required by the Illinois Community College Act (110 ILCS 805/3-17) 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 (March 1 deadline) as in-district applicants.

## **Accreditation**

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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

## **Total Hours Required - 69.5 Hours**

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### **Major Field Requirements - 52.5 Hours**

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- NRS 116 - Med Terminology for Hea Career (3 Semester Hours)
- RAD 100 - Radiologic Technology Intro (.5 Semester Hours)
- RAD 101 - Rad Tech Clinical Experience I (3 Semester Hours)
- RAD 102 - Rad Tech Clinical Exp II (3 Semester Hours)
- RAD 103 - Rad Tech Clinical Exp III (2 Semester Hours)
- RAD 110 - Technical Nursing I (1 Semester Hours)
- RAD 111 - Technical Nursing II (1 Semester Hours)
- RAD 120 - Rad Tech Anat/Positioning I (5 Semester Hours)
- RAD 121 - Rad Tech Anat/Positioning II (5 Semester Hours)
- RAD 122 - Radiologic Physics (3 Semester Hours)
- RAD 200 - Venipuncture (1 Semester Hours)
- RAD 201 - Rad Tech Clinical Exp IV (5 Semester Hours)

- RAD 202 - Rad Tech Clinical Exp V (5 Semester Hours)
- RAD 220 - Image Production in Radiogr (3 Semester Hours)
- RAD 221 - Path/Adv Imag Modal-Diag Imag (4 Semester Hours)
- RAD 222 - Ionizing Radiation in Medicine (3 Semester Hours)
- RAD 223 - Cross Sectional Anatomy (3 Semester Hours)
- RAD 224 - Registry Review (2 Semester Hours)

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### General Education Requirements - 16 Hours

- Communications (ENG 101, ENG 103, or COM 131) 6 Semester hour(s) (ENG 101 is required)
- \*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)

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### SVCC Requirement - 1 Hours

- FYE 101 - First Year Experience (1 Semester Hours)

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## Suggested Program OPTION I

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### First Semester - 14 Hours

- Natural Science (BIO 108 or BIO 109) 4 Semester hour(s)
- FYE 101 - First Year Experience (1 Semester Hours)
- RAD 101 - Rad Tech Clinical Experience I (3 Semester Hours)
- RAD 110 - Technical Nursing I (1 Semester Hours)
- RAD 120 - Rad Tech Anat/Positioning I (5 Semester Hours)

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### Second Semester - 15-19 Hours

- \*\*\* 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 - Rad Tech Clinical Exp II (3 Semester Hours)
- RAD 111 - Technical Nursing II (1 Semester Hours)
- RAD 121 - Rad Tech Anat/Positioning II (5 Semester Hours)

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### Summer Session - 8 Hours

- Social/Behavioral Science 3 Semester hour(s)
- RAD 103 - Rad Tech Clinical Exp III (2 Semester Hours)
- RAD 122 - Radiologic Physics (3 Semester Hours)

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### Third Semester - 16 Hours

- Communications 3 Semester hour(s)
- RAD 200 - Venipuncture (1 Semester Hours)
- RAD 201 - Rad Tech Clinical Exp IV (5 Semester Hours)
- RAD 220 - Image Production in Radiogr (3 Semester Hours)
- RAD 221 - Path/Adv Imag Modal-Diag Imag (4 Semester Hours)

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### Fourth Semester - 13 Hours

- RAD 202 - Rad Tech Clinical Exp V (5 Semester Hours)
- RAD 222 - Ionizing Radiation in Medicine (3 Semester Hours)
- RAD 223 - Cross Sectional Anatomy (3 Semester Hours)

- RAD 224 - Registry Review (2 Semester Hours)

### **Optional Session - 2 Hours**

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- RAD 250 - Rad Tech Clinical Electives (2 Semester Hours)

## **Suggested Program OPTION II**

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

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- Communications 6 Semester hour(s)
- BIO 108 - Intro to Hum Anatomy/Physiol (4 Semester Hours)

**OR**

BIO 109 - Human Anatomy & Physiology I (4 Semester Hours)

**OR**

AND BIO 110

- MAT 106 - Applied Mathematics (3 Semester Hours)

**OR**

MAT 121 - College Algebra (4 Semester Hours)

- FYE 101 - First Year Experience (1 Semester Hours)
- PSY 103 - Introduction to Psychology (3 Semester Hours)
- 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.

### **Footnotes**

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- \*MAT 121 or 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.
- \*\*\* For students taking BIO 109 and 110 sequence.