

## (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.

### Special Considerations

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Graduates must pass a national registry exam plus a state exam in Illinois to be certified. 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. 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

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

7. Complete a hospital visit scheduled by the Coordinator.
8. Complete ATI HOBET (Health Occupations Basic Entrance Test) test through SVCC testing center or other approved ATI testing center.
9. 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.

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## 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.

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## 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.

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## 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.

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## 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

Health Career Education Counselor, 815/835-6354;  
Dianna Brevitt, Coordinator Radiologic Technology, 815/835-6362.

Major Field Requirements - Sem/Hrs: 53

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- NRS 116 - Medical Terminology for Health Careers 3 Semester hour(s)
  - RAD 184 - Radiologic Technology Clinical Experience I 3 Semester hour(s)
  - RAD 185 - Radiologic Technology Clinical Experience II 3 Semester hour(s)
  - RAD 186 - Radiologic Technology Clinical Experience III 2 Semester hour(s)
  - RAD 191 - Technical Nursing I 1 Semester hour(s)
  - RAD 192 - Technical Nursing II 1 Semester hour(s)
  - RAD 194 - Introduction to Radiologic Technology 5 Semester hour(s)
  - RAD 195 - Intermediate Radiologic Technology 5 Semester hour(s)
  - RAD 196 - Electricity for Radiologic Technologists 2 Semester hour(s)
  - RAD 197 - Ionizing Radiation in Medicine 4 Semester hour(s)
  - RAD 200 - Venipuncture for Radiologic Technology 1 Semester hour(s)
  - RAD 284 - Radiologic Technology Clinical Experience IV 4 Semester hour(s)
  - RAD 285 - Radiologic Technology Clinical Experience V 4 Semester hour(s)
  - RAD 286 - Radiologic Technology Clinical Experience VI 3 Semester hour(s)

- RAD 294 - Quality Control in Radiography 3 Semester hour(s)
- RAD 295 - Special Radiographic Procedures 3 Semester hour(s)
- RAD 296 - Survey of Disciplines Applied to Radiology 4 Semester hour(s)
- RAD 297 - Advanced Radiologic Technology Seminar 2 Semester hour(s)

General Education Requirements - Sem/Hrs: 19

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- Communications 6 Semester hour(s)
- \*Mathematics (MAT 106 or 121 or higher required) 3 Semester hour(s)
- \*Life Science (BIO 108 required) 4 Semester hour(s)
- Humanities/Fine Arts 3 Semester hour(s)
- Social/Behavioral Science (PSY 103 recommended) 3 Semester hour(s)

SVCC Requirement - Sem/Hrs: 1

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

Total Hours Required for A.A.S. Degree: 73

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Footnote

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

OPTION I

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Suggested Program

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First Semester - Sem/Hrs: 14

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- Natural Science (BIO 108 or BIO 109) 4 Semester hour(s)
- FYE 101 - First Year Experience 1 Semester hour(s)
- RAD 184 - Radiologic Technology Clinical Experience I 3 Semester hour(s)
- RAD 191 - Technical Nursing I 1 Semester hour(s)
- RAD 194 - Introduction to Radiologic Technology 5 Semester hour(s)

Second Semester - Sem/Hrs: 15-19

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- \* Natural Science (BIO 110) 0-4 Semester hour(s)
- Mathematics (MAT 106 or 121 or higher) 3 Semester hour(s)
- Communications 3 Semester hour(s)
- RAD 185 - Radiologic Technology Clinical Experience II 3 Semester hour(s)
- RAD 192 - Technical Nursing II 1 Semester hour(s)
- RAD 195 - Intermediate Radiologic Technology 5 Semester hour(s)

Summer Session - Sem/Hrs: 7

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- Social/Behavioral Science 3 Semester hour(s)
- RAD 186 - Radiologic Technology Clinical Experience III 2 Semester hour(s)
- RAD 196 - Electricity for Radiologic Technologists 2 Semester hour(s)

Third Semester - Sem/Hrs: 15

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- Humanities/Fine Arts 3 Semester hour(s)
- RAD 197 - Ionizing Radiation in Medicine 4 Semester hour(s)
- RAD 200 - Venipuncture for Radiologic Technology 1 Semester hour(s)
- RAD 284 - Radiologic Technology Clinical Experience IV 4 Semester hour(s)
- RAD 294 - Quality Control in Radiography 3 Semester hour(s)

Fourth Semester - Sem/Hrs: 14

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- Communications: Semester hour(s)3
- RAD 285 - Radiologic Technology Clinical Experience V 4 Semester hour(s)
- RAD 295 - Special Radiographic Procedures 3 Semester hour(s)
- RAD 296 - Survey of Disciplines Applied to Radiology 4 Semester hour(s)

Summer Session - Sem/Hrs: 5

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- RAD 286 - Radiologic Technology Clinical Experience VI 3 Semester hour(s)
- RAD 297 - Advanced Radiologic Technology Seminar 2 Semester hour(s)

Footnote

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\* For students taking BIO 109 and 110 sequence.

OPTION II

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Suggested Program

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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
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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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