

Radiologic Sciences–Bachelor of Science Degree

*Southern Illinois University Carbondale
College of Applied Sciences and Arts*

Introduction

The baccalaureate degree program in radiologic sciences is the only one of its kind offered in the state of Illinois.

The program in Radiologic Sciences prepares qualified health care professionals to act as first assistants to the physician in medical practice. These professionals utilize radiant energy, ionizing radiation (x-rays), other forms of electromagnetic energy, and sound waves for the imaging, diagnosis, and treatment of disease. Each distinct option has its own accreditation, educational, and clinical training requirements. The traditional medical specialties of radiography (radiologic technology), radiation therapy, medical sonography (ultrasound), and computed tomography/magnetic resonance imaging are available at SIUC.

Accreditation and Licensure

The radiologic sciences program at SIUC is fully accredited and students meet the requirements at graduation for Illinois licensing.

The program is accredited by the American Registry of Radiologic Technologists and the American Registry of Diagnostic Medical Ultrasound. Students sit for National Board examinations administered by these groups. Students graduating from this program meet the Illinois Department of Nuclear Safety regulations concerning licensing requirements.

Faculty

The faculty in the radiologic sciences program at SIUC are dedicated and qualified.

Faculty are involved in local, state, and national professional organizations. They provide expertise and research assistance in a variety of radiology work settings and educational preparation programs.

Admission

Enrollment in the program is limited to a specific number of students.

Due to a variety of circumstances, including rules of accreditation, limitations of facilities/internship sites, and faculty-student ratio, enrollment in the program is limited. In order to be considered for admission to the program, a Radiologic Sciences application must be completed. The application packet will be sent to a prospective student following admission to the University. It is important to complete all application procedures as soon as possible.

Clinical Experiences

Hands-on radiologic science experiences in regional hospitals and clinics develop professional skills of students and provide health care to the community.

Rotations include experience in hospitals and clinics of differing sizes and care delivery throughout southern Illinois, Missouri, and the surrounding region. Opportunities to observe advanced methods of medical imaging and therapeutics will be incorporated into additional minor rotations.

Student Profile

Characteristics of students enrolled in the radiologic sciences program at SIUC are diverse.

Some are females and some are male; some are from large cities and others from small towns; some are in their teens and others range from 20 to 60 years old; and many are single but some are married or single parents. Ethnic and cultural backgrounds are varied.

Expenses

Students accepted into the radiologic sciences program will have expenses in addition to University tuition, fees, and books.

These include the cost of uniforms, appropriate health tests and vaccines, and travel to distant clinical internship sites.

☐ Scholarships

Scholarship award opportunities are available to Radiologic Science students who choose to apply.

Radiologic science students have the opportunity to apply for scholarship awards from the Illinois Society of Radiologic Technologists, American Society of Radiologic Technologists, and numerous College and University organizations. These awards are based upon scholarly achievement and the active support of the professional association. Many scholarships are available from the College of Applied Sciences and Arts and Southern Illinois University Carbondale. Counseling for financial assistance may be obtained at the Office of Financial Aid, Woody Hall, (618) 453-4334.

☐ Professional Association

Opportunities are available for involvement in Professional Societies through student category memberships.

Students are encouraged to take part in a variety of activities through membership in the student category of the Illinois State Society of Radiologic Technologists and American Society of Radiologic Technologists. Students have the opportunity to attend the Radiologic Society of North America (RSNA) conference and exposition held in Chicago each Fall as well as state, local, and national society meetings.

☐ Placement and Job Opportunities

Money magazine rates the radiologic sciences as one of the top ten employment opportunities.

Employment opportunities are available nationwide and offer the technologist flexible work situations to accommodate various lifestyles and needs. The salary range varies nationwide, but depending upon education, training, and experience, graduates should expect a salary between \$35,000 to \$55,000 annually.

Radiology services are offered in various settings: Hospitals, physicians' offices, mobile imaging companies, industrial research centers, government agencies, commercial sales, and marketing. The radiologic sciences professional may also pursue a career as an educator, researcher, consultant, or administrator.

☐ For More Information

For official information refer to the SIUC catalog.

Visit our World Wide Web site at:

<http://www.siu.edu/~sah/RADS/rads.html>

Write or call:

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RADIOLOGIC SCIENCES
BACHELOR OF SCIENCE DEGREE, COLLEGE OF APPLIED SCIENCES AND ARTS
(Suggested Curriculum)

FALL SEMESTER-FRESHMAN YEAR

<u>Course</u>	<u>Semester Hours</u>
ENG 101-English Composition	3
MATH 108-College Algebra or MATH 113	3
*Anatomy (1 Anatomy Course)	2
Group 2 Science	3
Humanities Group	<u>3</u>
Total	14

SPRING SEMESTER-FRESHMAN YEAR

<u>Course</u>	<u>Semester Hours</u>
ENG 102-English Comp.	3
Social Science Group	3
CHEM 106-Chemistry or Physics 101	3
SPCH 101-Oral Communications	3
Humanities Group	<u>3</u>
Total	15

FALL SEMESTER - SOPHOMORE YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 102-Intro to RAD	3
RAD 112-Anatomy & Positioning I	4
RAD 202-Radiographic Physics	3
Social Science Group	<u>3</u>
Total	13

SPRING SEMESTER-SOPHOMORE YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 222-Radiography Clinic I	10
Integrative Group	<u>3</u>
Total	13

SUMMER SEMESTER – SOPHOMORE YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 212-Special Procedures	2
RAD 232-Selected Systems	<u>4</u>
Total	6

FALL SEMESTER - JUNIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 332-Radiography Clinic II	10
Fine Arts Group	<u>3</u>
Total	13

SPRING SEMESTER - JUNIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 322 Pharmacology	3
RAD 342-Radiation Biology	3
RAD 312-Radiographic Pathology	3
RAD 352-Special Imaging Modalities	3
Multicultural Group	<u>3</u>
Total	15

* Anatomy Satisfies the Human Health Group.

MAGNETIC RESONANCE IMAGING AND COMPUTED TOMOGRAPHY OPTION

FALL SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 364-Computed Tomography Technology	3
RAD 374-Sectional Anatomy	3
RAD 384-Magnetic Resonance Imaging	4
RAD 394-CT/MRI Pathology	<u>3</u>
Total	13

SPRING SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 404-Clinical Internship	10
RAD 414-Special Studies in CT/MRI	<u>2</u>
Total	12

SUMMER SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 424-MRI and CT Clinical Intern. II	4
RAD 434-Seminar in MRI and CT	<u>2</u>
Total	6

MEDICAL SONOGRAPHY OPTION

FALL SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 341-Fund. Of Sonography	1
RAD 351-Obstetric and Gynecology Sono.	3
RAD 371-Abdominal Sonography	3
RAD 381-Ultra. Physics and Instrumentation	3
RAD 391-Sectional Anatomy –Sonography	<u>3</u>
Total	13

SPRING SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 401- Sonography Clinical Internship I	<u>12</u>
Total	12

SUMMER SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 441-Sonography Clinic Internship II	4
RAD 451-Seminar in Sonography	<u>2</u>
Total	6

◆This information material is subject to change. Contact the department for the latest information.

RADIATION THERAPY OPTION

FALL SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 360-Fundamentals of Radiation Therapy	2
RAD 370-Tech and App of Radiation therapy	3
RAD 380-Physics of Radiation therapy	3
RAD 390-Oncologic Nursing	2
RAD 400-Dosimetry and Instrumentation	<u>3</u>
Total	13

SPRING SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 410-Clinical Internship I	10
RAD 420-Special Problems	<u>2</u>
Total	12

SUMMER SEMESTER - SENIOR YEAR

<u>Course</u>	<u>Semester Hours</u>
RAD 430- Radiation Clinical Internship	4
RAD 440- Seminar in Radiation Therapy	<u>2</u>
Total	6

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