

# EDUCATIONAL AND CAREER OPPORTUNITIES IN RADIOLOGIC SCIENCES

The Department of Radiologic Sciences offers a two-year radiography certificate program and a Bachelor of Science degree in Radiologic Sciences. The two-year radiography program prepares students to become radiographers. If you've ever had an x-ray of your foot or chest, you've probably met a radiographer. Radiographers use x-ray equipment to produce images of organs, bones, and vessels of the body. Radiographers also work with physicians such as radiologists, pathologists, and surgeons in the performance of numerous x-ray procedures. At the conclusion of the two-year program, graduates qualify to take the national licensing exam to become registered radiographers.

Graduates of the certificate program or graduates of any two-year college-based radiography program may continue their education by enrolling in our Bachelor's degree program. The time required to complete the degree is usually 1 to 1 1/2 additional years. The Bachelor's program provides students with the opportunity to select an area of specialization such as computerized tomography, magnetic resonance imaging, ultrasonography, mammography, cardiovascular interventional imaging, or radiation therapy. Following the completion of the Bachelor's degree, students also qualify to take the national licensing exam for professional certification in one of the areas of specialization previously mentioned.

The demand for radiographers, imaging specialists, and radiation therapists continues to be strong across the country. In addition to hospitals, outpatient clinics, and physicians' offices, opportunities for employment exist in the commercial sales of

radiography equipment, radiologic pharmaceuticals, state health and safety departments, computer software companies, and teaching positions in educational institutions.

So why should you consider a career in Radiologic Sciences? A career in Radiologic Sciences offers a promising future, employment stability, and good salaries. You'll be on the cutting edge of scientific and technological progress. You'll also be a member of one of the fastest growing professions in the country and a vital member of the patient care team.

Whether you are producing an x-ray image to demonstrate a broken bone, a diseased organ, or administering radiation therapy to a malignant tumor, you will be providing care that leads to diagnosis, treatment, and cure. We recommend you consider a career in Radiologic Sciences, which will allow you to make a difference in the lives of others while improving your own.



*For further information please contact the following*

University of South Alabama	<a href="http://www.southalabama.edu">www.southalabama.edu</a>
Department of Radiologic Sciences (for FAQs, forms needed to apply to the certificate or B.S. program, map to the Department, and more)	University of South Alabama College of Allied Health Professions Department of Radiologic Sciences 1504 Springhill Ave. — Suite 2515 Mobile, Alabama 36604-3273 (251) 434-3456 • Fax (251) 434-3458 Website: <a href="http://www.southalabama.edu/alliedhealth/radiologicsciences">www.southalabama.edu/alliedhealth/radiologicsciences</a> e-mail: <a href="mailto:radsciadmissions@usouthal.edu">radsciadmissions@usouthal.edu</a>
For academic advising (including review of transcripts)	College of Allied Health Professions Office of Academic Advising 1550 University Commons Mobile, Alabama 36688-0002 (251) 380-2772 • Fax (251) 380-2636
For general admissions information	University of South Alabama Office of Admissions 182 Administration Building Mobile, Alabama 36688-0002 (251) 460-6141 • (800) 872-5247 <a href="http://www.admiss@usouthal.edu">www.admiss@usouthal.edu</a>
For further information about program accreditation and careers in Radiologic Sciences	Joint Review Committee on Education in Radiologic Technology 20 North Wacker Drive, Suite 2850 Chicago, Illinois 60606-3182 312-704-5300 <a href="http://www.jrcert.org">www.jrcert.org</a>  American Society of Radiologic Technologists <a href="http://www.asrt.org">www.asrt.org</a>

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Department of

## RADIOLOGIC SCIENCES

*College of Allied Health Professions*



UNIVERSITY OF SOUTH ALABAMA



# RADIOLOGIC SCIENCES: *Careers That Make A Difference*

## Programs in the Department of Radiologic Sciences

The Department of Radiologic Sciences offers two programs to prepare students for careers in diagnostic imaging and therapeutic services.

- Certificate Program in Radiography
- Bachelor of Science Degree in Radiologic Sciences

### Radiography Certificate Program

The certificate program requires twenty-four months for completion, and begins in the Fall Semester. Students attend two academic years and two summer sessions. The radiography program was established in 1976, and has maintained full national accreditation through the Joint Review Committee on Education in Radiologic Technology since its inception (see “*For further information*”). Upon completion of the prescribed courses, students are eligible to write the American Registry of Radiologic Technologists Examination for national licensure as a Radiologic Technologist.

All students are required to complete 24 semester hours of general study courses and 67 semester hours of Radiologic Sciences courses for completion of the 24-month Certificate Program in Radiography. Non-radiography courses **do not** have to be completed in the order outlined on the model curriculum.

#### Required General Courses: Semester Hours

- Public Speaking (CA 110) . . . . . 3
  - Anatomy and Physiology I and II (CLS 114, 115) . . . . . 8
  - Composition I and II (EH 101, 102) . . . . . 6
  - Precal Algebra (MA 112) . . . . . 3
  - Intro Computer Application (CIS 110 or 150) . . . . . 3
  - AHP 101 . . . . . 1
- 24**

Model Curriculum For Certificate in Radiography		
Fall, First Year	Spring	Summer
EH 101 . . . . . 3	EH 102 . . . . . 3	CA 110 . . . . . 3
CLS 114 . . . . . 4	CLS 115 . . . . . 4	CIS 150 or 110 . . . . . 3
RAD 101 . . . . . 4	MA 112 . . . . . 3	RAD 109 . . . . . 4
RAD 104 . . . . . 3	RAD 108 . . . . . 1	RAD 215 . . . . . 4
RAD 107 . . . . . 1	RAD 131 . . . . . 4	14
AHP 101 . . . . . 1	15	
16		
Fall, Second Year	Spring	Summer
RAD 201 . . . . . 6	RAD 305 . . . . . 4	RAD 306 . . . . . 5
RAD 204 . . . . . 4	RAD 311 . . . . . 4	RAD 320 . . . . . 2
RAD 218 . . . . . 4	RAD 324 . . . . . 6	RAD 337 . . . . . 5
RAD 265 . . . . . 2	RAD 335 . . . . . 2	RAD 394 . . . . . 2
16	16	14

### Admission Requirements for the Department of Radiologic Sciences

1. Completion of a Department of Radiologic Sciences application, which is available at [www.southalabama.edu/alliedhealth/radiologicsciences](http://www.southalabama.edu/alliedhealth/radiologicsciences). **Application deadline is May 1.**
  - Certificate Program application.
  - Baccalaureate Degree Program application (for those who have already completed a two-year college-based program in Radiography) along with appropriate application fee.
2. Submit official ACT or SAT scores regardless of previous educational background. If individual scores for Math, English and Natural Science on the ACT are below 18, it is strongly advised that the test be retaken. ACT or SAT score must be submitted by the application deadline.
3. Submission of three (3) completed reference forms by the application deadline. Reference forms are available at [www.southalabama.edu/alliedhealth/radiologicsciences](http://www.southalabama.edu/alliedhealth/radiologicsciences).
4. Have a minimum GPA of 2.0 (“C” average) on previously completed college-level courses. Transcripts must be submitted by the application deadline. For students who are attending or have attended USA, the USA GPA will be used. GPA’s from outside courses are not averaged into the USA GPA.
5. Acceptance to the University of South Alabama.
6. Prospective certificate students (only) must complete four (4) hours of observation in a hospital Radiology Department prior to reporting for an interview with the Admissions Committee. Following the submission of the Departmental application, applicants may call the Department of Radiologic Sciences at (251) 434-3456 anytime after **January 10** during the year in which they plan to enroll, and schedule a hospital observation appointment. Observation form and instructions are available at [www.southalabama.edu/alliedhealth/radiologicsciences](http://www.southalabama.edu/alliedhealth/radiologicsciences).
7. Meet program technical/core performance standards. Core performance standards are fundamental tasks and skills that are required for successful completion of the program. They have been outlined and are available upon request.
8. Complete a brief writing assignment conducted on the day of your personal interview with the Admissions Committee.
9. Complete a personal interview with members of the Radiologic Sciences Admissions Committee.
10. Applicants will be screened on the basis of past educational performance and the potential for the number of clinical openings available. **Therefore, acceptance into the University does not guarantee admission into the program.**
11. Student acceptance into the program is provisional pending completion of drug screen and background check requirements as specified in the acceptance letter. Refusal to submit will result in nullification of acceptance into the program.
12. Proof of medical insurance must be provided **following** official notification of acceptance into the program by the date specified in the acceptance letter.

#### Additional Admission Requirements for Bachelor of Science Applicants:

13. Successful completion of an accredited college-based Radiography program.
14. All students must receive a passing score on the ARRT examination by the end of the third week of enrollment in the B.S. program. Students who do not receive a passing score will not be allowed to continue on in the B.S. program.
15. Radiation Therapy applicants **only**: Complete four (4) hours of observation in a Radiation Therapy Department prior to reporting for an interview with the Admissions Committee. The observation site will be determined by the Committee, and appointments must be scheduled through the Department of Radiologic Sciences at (251) 434-3456. Radiation Therapy observation form and instructions are available at [www.southalabama.edu/alliedhealth/radiologicsciences](http://www.southalabama.edu/alliedhealth/radiologicsciences). Applicants must complete nine (9) hours of required general study course work from the Humanities, History, Social and Behavioral Sciences, or Literature Electives as a prerequisite for admission to the Radiation Therapy program.

## Bachelor of Science Degree Program

Students graduating from the certificate program and registered Radiographers who are graduates of other two-year college-based Radiography programs may continue their education and complete a Bachelor of Science Degree in Radiologic Sciences. Following completion of the bachelor’s degree and appropriate clinical experience, students may seek advanced certification through the American Registry of Radiologic Technologists or the American Registry of Diagnostic Medical Sonographers. The baccalaureate program is designed to provide graduates of the certificate program with an opportunity to expand their career opportunities in radiology management, radiologic science education, advanced imaging specialties, health physics, and equipment sales and applications. Radiographers who already possess a B.S. degree may elect to complete the modality-specific curriculum to be awarded a certificate rather than a B.S. in Radiologic Sciences. The Radiation Therapy program is fully accredited by the Joint Review Committee on Education in Radiologic Technology.

### B.S. Curriculum

The curriculum leading to a B.S. in Radiologic Sciences generally requires three to four (3-4) semesters to complete and is comprised of both didactic and clinical courses. The program begins in the Fall Semester each year, and students must complete between 52 and 74 semester hours to satisfy the degree requirements. Six areas of specialty imaging courses are offered, and the total number of hours required varies based on the area of specialization chosen.

All students are required to complete 32 semester hours of general study courses for completion of the Bachelor of Science in Radiologic Sciences. Non-radiography courses **do not** have to be completed in the order outlined on the model curriculum. No more than 64 semester hours of transfer credit will be accepted from junior colleges.

#### Required General Courses: Semester Hours

- Biology Sequence BLY 101/101L and 102/102L or 121/121L and 122/122L . . . . . 8
- Statistics ST 210 . . . . . 3
- Fine Arts Elective ARH 100, 103, 123, 240, 242, ARS 101, MUL 101 or DRA 110 . . . . . 3
- Literature Elective EH 215, 216, 225, 226, 235 or 236 . . . . . 3
- History Elective HY 101, 102, 135 or 136 . . . . . 3
- Psychology PSY 120 . . . . . 3
- \*Humanities Elective, Literature, Philosophy or Foreign Language (See advisor for options) . . . . . 3
- \*Social Science Electives (History or other social science) . . . . . 6 (See advisor for options) . . . . . 32

\*Must complete a two-course sequence in either literature or history

#### Professional Curriculum Requirements:

Students may choose one of the following:

- Option A — Two imaging areas - 4 courses (20 semester hours)
  - Vascular Radiography RAD 401, 402
  - Computerized Tomography RAD 405, 406
  - Magnetic Resonance Imaging RAD 409, 410
  - Mammography RAD 413, 414
- Option B — One imaging modality listed in Option A
  - 2 courses (10 semester hours) and 4 management courses (12 semester hours) selected from MGT 300, 305, 310, 311, 340, 351, 451, 452, 454, 455, 460, 465.
- Option C — Ultrasonography - 8 courses (28 semester hours)
  - RAD 417, 421, 423 - Fall Semester
  - RAD 418, 424 - Spring Semester
  - RAD 419, 425, 427 - Summer Semester
- Option D — Radiation Therapy - 12 courses (42 semester hours)
  - RAD 441, 446, 448, 450 - Fall Semester
  - RAD 442, 452, 455 - Spring Semester
  - RAD 443, 453, 456 - Summer Semester
  - RAD 444, 458 - Fall Semester, second year

### Model Curriculum (Additional Requirements) For Bachelor of Science in Radiologic Sciences

Fall	Spring
BLY 101/101L or 121/121L . . . . . 4	BLY 102/102L or 122/122L . . . . . 4
ST 210 . . . . . 3	MUL 101, ARH 100, 103, 123, 240, 242, ARS 101, DRA 110 . . . . . 3
RAD Imaging Spec and . . . . . 5	RAD Imaging Spec and . . . . . 5
RAD Imaging Spec or . . . . . 5	RAD Imaging Spec or . . . . . 5
MGT Mgt Option or . . . . . 3	MGT Mgt Option or . . . . . 3
RAD Ultrasound Track or . . . . . 11	RAD Ultrasound Track or . . . . . 8
RAD Radiation Therapy Track . . . 11	RAD Radiation Therapy Track . . 10
15/18/18	15/15/17
Summer	Fall, Second Year
History Elect HY 101, 102, 135, or 136 . . . . . 3	*Humanities Elective . . . . . 3
Literature Elect EH 215, 216, . . . . . 3	*Social Science Elect (2 courses) . . 6
225, 226, 235, or 236 . . . . . 3	MGT Option . . . . . 3
PSY 120 . . . . . 3	RAD Radiation Therapy Track . . 10
MGT Mgt Option or . . . . . 3	9/12/19
RAD Ultrasound Track or . . . . . 9	
RAD Radiation Therapy Track . . . 11	
9/12/18/20	

\*Must complete a two-course sequence in literature or history.  
+No more than 64 semester hours of transfer credit will be accepted from junior colleges.

### Radiologic Sciences Admissions Time Line

This schedule represents the admissions timeline in a typical year. The schedule may be adjusted as needed:

- |                     |  |
|---------------------|--|
| <b>May 1</b>        | <b>Deadline for applications and supporting documents</b>  |
| April - June        | Interviews are conducted   |
| late May - mid June | Decisions made and letters mailed  |
| <b>July 15</b>      | <b>Deadline for completion of drug screen and authorization for background check for those accepted into the Radiography or B.S. program</b> |
| late August         | Students begin first semester of Radiography and B.S. program  |

#### Admission is dependent upon factors that include:

- Grade-point average
- ACT subscores in English, Math, and Natural Science
- Communication skills
- Interview results
- Number of clinical openings available