RADIOLOGIC SCIENCE, CAREER ASSOCIATE OF SCIENCE

The Career Associate of Science degree in Radiologic Science at Albany State University is a sequence of courses designed to prepare students for positions in radiology departments and related businesses and facilities. Learning opportunities develop academic, clinical, and professional knowledge and skills required for job acquisition, retention, and advancement. The program emphasizes a combination of didactic and clinical instruction necessary for successful employment. Graduates have the qualifications of an entry level radiographer and are eligible to sit for the national certification examination for radiographers.

The education provided via this program coupled with successful professional credentialing will provide graduates the prerequisite skills necessary to pursue additional training in higher level radiology service areas including but not limited to computerized tomography (CT), mammography, and other specialized modalities.

Pregnancy Policy

Please refer to the program’s handbook for the RADS program’s complete pregnancy policy. Any student that is pregnant or becomes pregnant while in the Radiologic Science program should consider the following:

1. Exposure to communicable diseases. As a student, one may be exposed to a variety of communicable diseases such as rubella and the Hepatitis C virus which are a serious danger to the developing fetus. It is the pregnant student’s responsibility to avoid those patients that may put them at risk.

2. Students are at risk to radiation exposure while performing radiographic exams. Pregnant students must protect themselves and the unborn child(ren) by using radiation protection practices and avoided as much radiation as possible until after the first trimester.

3. If the student’s medical condition limits her ability to continue in the program, she may choose to withdraw and continue with the following cohort of RADS students, if a position is available, beginning with the withdrawn course(s). Excessive absences over the specified allowed amount (excused or unexcused) may cause the student to be dropped from that/those course(s).

4. If a student discovers she is pregnant, disclosure of the pregnancy to program faculty is voluntary. If she chooses to disclose the pregnancy, a Disclosure Form will need to be completed and submitted to the program director. A Withdrawal of Disclosure Form is also available to be completed if the student needs to withdraw the disclosure.

Accreditation

The Radiologic Science program at Albany State University is currently accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT). Contact information is as follows:

Joint Review Committee on Education in Radiologic Technology
20 North Wacker Drive
Suite 2850
Chicago, IL 60606-3182

Graduation Requirements

In addition to college graduation requirements, students must have a grade of "C" or better in all RADS courses. The Radiologic Science program reserves the right to discontinue, at any time, the enrollment of Radiologic Science student, if, in the judgment of the Vice President of Academic Affairs and the Radiologic Science faculty, the student does not appear to have the necessary qualifications for radiologic science.

Readmission of Returning Students

Any student who fails a RADS course will not be allowed to continue onto the next semester of RADS courses. If this is the student’s first failure, the student may re-apply to the program the following year. If the student fails a second time, or fails more than one RADS course, it will result in permanent dismissal from the RADS program without a chance of re-admission. If a student withdraws or leaves due to reasons other than failure, the student may re-apply for admission in the following year.

Application Deadline

Completed application forms must be RECEIVED NO LATER THAN NOVEMBER 1st of each year. The applicant must also have the information requested is received. Students are responsible for making sure their application is complete. Applications are available electronically on the University’s website and as hard copies in the Health Sciences office.

Program Admission

To apply to the Radiologic Science program, the applicant must:

1. Meet all of Albany State University’s admission requirements.
2. Have a minimum cumulative GPA of 2.5 on a 4.0 scale.
3. Satisfied all Learning Support requirements.
4. Take the TEAS test. Only two attempts allowed with a minimum of six weeks between attempts.
5. Submit a completed Radiologic Science program application.
6. May submit optional documentation to be evaluated for points prior to deadline. Specific information describing optional documentation is provided in the following paragraphs.
7. To progress successfully through the curriculum and function as a practicing radiologic technologist after graduation, the individual must have:
   a. Visual acuity with or without corrective lenses to view radiographic images, physicians’ orders, patients’ charts, identifying markers on patients, equipment manuals, to identify respirations of patients, etc.;
b. Hearing with or without auditory aids to obtain patients’ history by interview, to hear audible signals produced by imaging equipment, etc.;

c. Physical ability to operate equipment (portable and stationary x-ray equipment, stretchers, wheelchairs, patients, immobilization devices, etc.), to sufficiently (minimal impairment of upper and lower extremities) perform CPR, etc.

d. Manual dexterity to lift patient while placing imaging device, etc.

e. Speech sufficient to communicate with staff and patients in a timely, effective manner.

**Selection Process**

Due to limited clinical placements, the program can only accept a certain number of applicants each year. Admission into the program is competitive based on the points system. Each program applicant is ranked by the Radiologic Science program selection committee according to accumulated points determined by criteria including, but not limited to GPA, pre-requisite course grades, TEAS scores, etc. Additional opportunities for points are provided in the next section.

In order to increase one’s changes of acceptance into the program, it is recommended to complete all possible opportunities for points. By obtaining as many points, one becomes more of a competitive applicant for the program. Admission into the program is non-discriminatory based on race, color, religion, gender, age, disability, national origin, or any other protected class.

**Additional opportunities for points are as follows:**

- Up to three (3) professional recommendation forms from a non-relative can be submitted. These forms can be found in the application packet.

- Applicant’s grades in the following courses: MATH 1111; ENGL 1101; BUSA 2101; BIOL 1100K OR BIOL 2411K. Be aware BIOL 1100K may not transfer. BIOL 2411K and BIOL 2412K may be taken in lieu of BIOL 1100K.

- Provided documentation of 40 hours of volunteer service in a radiology department. Documentation of volunteer service must:
  - Be on company letterhead.
  - Provide a description of duties performed.
  - Be signed by supervisory personnel of that facility.

- All of the following clinical forms/documents:
  - Health assessment form
  - Immunization record
  - PPD (tuberculosis skin test or Chest x-ray report)
  - Hepatitis B Vaccination
  - Current influenza vaccination

**Application and Document Submission**

ASU Health Sciences Division
Radiologic Science Program
Attention: RADS Application Coordinator
2400 Gillionville Road

Albany, GA 31707

Radiologic Science Program telephone is 229-500-2232.
Radiologic Science Program office is on the ASU Gillionville Campus,
Building J, Room 224.
Health Sciences telephone is 229-500-2389.

**Selection Notification**

Letters of acceptance or non-acceptance will be sent out following the selection process. The selection process takes place in November (after the document submission deadline of November 1st) each year. Students are notified by December 1st each year of selection status. Selected students must confirm their intent to enroll in writing within 10 days after the post marked date of their acceptance letter. A student that fails to respond in the appropriate time frame will forfeit their position in the program.

**Clinical Obligations Upon Acceptance**

If accepted, students will have a clinical component of the program to complete.

Clinical placement is equally distributed among students. Although the majority of the clinical component is carried out during day time hours, less than 25% of the total clinical assignments will be during evening and/or weekend hours. Program clinical locations are mainly located outside the city limits, and all expenses associated with travel are the student’s responsibility. Additionally, some program clinical affiliates require drug screens (initial and random), criminal background checks, periodic tuberculosis skin tests and specific vaccinations. If the student is placed in a facility requiring any/all of these items, the cost will be the student’s responsibility. If the student did not submit the health documentation (immunization, PPD, HepB Vac., physical assessment, etc.) prior to acceptance, these documents will need to be submitted to the RADS program director no later than February 1st following acceptance. Failure to provide this documentation will prevent the student from being allowed to attend clinical settings. These absences will be unexcused and may lead to the student’s dismissal from the program.

**Courses for Career Associate of Science Degree Program**

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<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Semester Hours</th>
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<tbody>
<tr>
<td>Freshman Year</td>
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<tr>
<td>Spring</td>
<td></td>
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<tr>
<td>ENGL 1101</td>
<td>English Composition I</td>
<td>3</td>
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<tr>
<td>BIOL 1100K or BIOL 2411K and BIOL 2412K</td>
<td>Human Anatomy and Physiology for the Health Care Professional I and Human Anatomy and Physiology II</td>
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<tr>
<td>ALHE 1120</td>
<td>Medical Terminology</td>
<td>2</td>
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<tr>
<td>RADS 1000</td>
<td>Introduction to Radiography and Patient Care</td>
<td>3</td>
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<tr>
<td>RADS 1210</td>
<td>Clinical Imaging I</td>
<td>2</td>
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<tr>
<td>Summer</td>
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<tr>
<td>MATH 1111</td>
<td>College Algebra</td>
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<tr>
<td>BUSA 2101</td>
<td>Survey of Computer Applications</td>
<td>3</td>
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<tr>
<td>RADS 1020</td>
<td>Radiographic Procedures</td>
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RADS 1000. Introduction to Radiography and Patient Care. (3 Credits)
Introduces the knowledge required to perform radiologic procedures applicable to the human anatomy. Emphasis will be placed on the production of quality radiographs, and laboratory experience will demonstrate the application of theoretical principles and concepts. Topics include: introduction to radiographic imaging procedures; positioning terminology; positioning consideration; procedures, anatomy, and topographical anatomy related to body cavities, bony thorax, and abdomen. Prerequisites: ALHE 1120, ENGL 1101, BIOL 1100K, RADS 1000. Corequisite: RADS 1220. Offered: Summer.

RADS 1020. Radiographic Procedures I. (2 Credits)
Introduces the knowledge required to perform radiographic procedures applicable to the human anatomy. Emphasis will be placed on the production of quality radiographs, and laboratory experience will demonstrate the application of theoretical principles and concepts. Topics include: introduction to radiographic imaging procedures; positioning terminology; positioning consideration; procedures, anatomy, and topographical anatomy related to body cavities, bony thorax, and abdomen. Prerequisites: ALHE 1120, ENGL 1101, BIOL 1100K, RADS 1000. Corequisite: RADS 1220. Offered: Summer.

RADS 1040. Radiographic Procedures II. (3 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities and shoulder girdle; lower extremities; pelvic girdle; anatomy and routine projections of the spine, ribs and sternum. Prerequisites: RADS 1020, RADS 1220. Corequisite: RADS 1230. Offered: Fall.

RADS 1100. Principles of Radiation Biology and Protection. (3 Credits)
Provides instruction on the principles of cell radiation interaction. Radiation effects on cells and factors affecting cell response are presented. Acute and chronic effects of radiation are discussed. Topics include: radiation detection and measurement; patient protection, personnel protection, absorbed dose equivalencies, agencies and regulations, introduction to radiation biology, cell anatomy, radiation/cell interaction and effects of radiation. Prerequisites: Program Admission and RADS 1000. Corequisite: None. Offered: Summer.

RADS 1120. Radiographic Procedures II. (2 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities and shoulder girdle; lower extremities; pelvic girdle; anatomy and routine projections of the spine, ribs and sternum. Prerequisites: RADS 1020, RADS 1220. Corequisite: RADS 1230. Offered: Fall.

RADS 1130. Radiologic Science Review. (2 Credits)
Introduces the knowledge required to perform radiologic procedures applicable to the human anatomy. Emphasis will be placed on the production of quality radiographs, and laboratory experience will demonstrate the application of theoretical principles and concepts. Topics include: introduction to radiographic imaging procedures; positioning terminology; positioning consideration; procedures, anatomy, and topographical anatomy related to body cavities, bony thorax, and abdomen. Prerequisites: ALHE 1120, ENGL 1101, BIOL 1100K, RADS 1000. Corequisite: RADS 1220. Offered: Summer.

RADS 1140. Critical Thinking and Legal Considerations. (2 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities and shoulder girdle; lower extremities; pelvic girdle; anatomy and routine projections of the spine, ribs and sternum. Prerequisites: RADS 1020, RADS 1220. Corequisite: RADS 1230. Offered: Fall.

RADS 1200. Clinical Imaging II. (2 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities and shoulder girdle; lower extremities; pelvic girdle; anatomy and routine projections of the spine, ribs and sternum. Prerequisites: RADS 1020, RADS 1220. Corequisite: None. Offered: Spring.

RADS 1210. Clinical Imaging I. (2 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: anatomy and routine projections of the upper extremities and shoulder girdle; lower extremities; pelvic girdle; anatomy and routine projections of the spine, ribs and sternum. Prerequisites: RADS 1020, RADS 1220. Corequisite: None. Offered: Spring.
RADS 2130. Clinical Imaging III. (4 Credits)
Intermediate student learning experiences in the hospital/clinical setting. Topics include: patient care; radiation safety practices, equipment utilization, exposure techniques, attend to and/or observation of routine projections of the thoracic and abdominal cavities, upper and lower extremities, pelvic girdle, and spine, attend to and/or observation of procedures related to the gastrointestinal (GI), genitourinary (GU), and biliary systems, and attend to and/or observation of procedure related to minor radiologic procedures. Execution of radiographic procedures will be conducted under direct and indirect supervision. Additional competencies and evidence of continued competencies will be obtained. Prerequisite: RADS 1220. Corequisite: RADS 1040. Offered: Fall.

RADS 2060. Radiographic Procedures III. (3 Credits)
Continues to develop the knowledge required to perform radiographic procedures. Topics include: gastrointestinal (GI) procedures, genitourinary (GU) procedures, biliary system procedures and special procedures, anatomy and routine projections of the cranium, facial bones, and sinuses, sectional anatomy of the head, neck, thorax and abdomen. Prerequisites: RADS 1040, RADS 1230. Corequisite: RADS 2240. Offered: Spring.

RADS 2130. Imaging Science II. (4 Credits)
Content is designed to impart an understanding of the components, principles and operation of digital imaging systems found in diagnostic radiology. Factors that impact image acquisition, display, archiving and retrieval are discussed. Guidelines for selecting exposure factors and evaluating images within a digital system assist students to bridge between film-based and digital imaging systems, with a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. This content also provides a basic knowledge of quality control, principles of digital system, quality assurance and maintenance. Content is designed to provide entry-level radiography students with principles related to computed tomography (CT) imaging and other imaging modalities (i.e., MRI, US, NM, Mammography) in terms of purpose, principles, equipment/material and procedure. Topics include: imaging equipment, digital image acquisition and display, and basic principles of CT and other imaging modalities. Topics include: imaging equipment, digital image acquisition and display, basic principles of CT and other imaging modalities. Prerequisites: BUSA 2101, RADS 1120. Offered: Fall.

RADS 2140. Pathology for the Imaging Professional. (2 Credits)
Content is designed to introduce the student to concepts related to disease and etiological considerations. Pathology and disease as they relate to various radiographic procedures are discussed with emphasis on radiographic appearance of disease and impact on exposure factor selection. Topics include: fundamentals of pathology, trauma/physical injury and systematic classification of disease. Prerequisites: RADS 1000, ALHE 1120, BIOL 1100K. Corequisite: None. Offered: Summer.

RADS 2150. Radiologic Science Review. (3 Credits)
Provides a review of basic knowledge from previous courses and helps the student prepare for national certification examinations for radiographers. Topics include: image production and evaluation, radiographic procedures, anatomy, physiology, pathology and terminology; equipment operation and quality control, radiation protection, and patient care and education. Prerequisites: RADS 1100, RADS 2060, RADS 2130, RADS 2140, RADS 2250. Corequisite: None. Offered: Fall.