Radiologic Technology is a health profession that involves producing diagnostic images of patient’s internal structures for use by the radiologist or referring physician in diagnosing medical problems and disorders. As a professional, the radiographer is required to observe the ethical and professional standards expected of all persons involved in caring for patients in health care settings.

How long is the program?
Columbia State offers a 22-month, full scope program in Radiologic Technology.

What does the program provide?
- Classroom instruction in crucial areas prior to clinical rotations.
- Hands-on training at clinical sites within approximately 60 miles of Columbia State.
- Clinical competencies that exceed American Registry of Radiologic Technologists requirements.
- Graduates experience excellent career mobility.
- Opportunities for introductory rotations in specialty modalities such as ultrasound, magnetic resonance imaging (MR), computed tomography (CT), radiation therapy, nuclear medicine, cardiac catheterization, and cardiac MR.
- Encouragement toward life-long learning through involvement in local, state, and national conferences and organizations.

How is the job market?
Those qualified to perform more than one type of imaging procedure, for example MR, CT, and Mammography, will have the best employment opportunities. The American Society of Radiologic Technologists 2010 salary survey, based on survey responses, reports a national mean annual compensation of $53,593 and a mean in Tennessee of $46,684.

<table>
<thead>
<tr>
<th>Career</th>
<th>Beginning Salary</th>
<th>Experienced Salary Median</th>
</tr>
</thead>
<tbody>
<tr>
<td>Radiologic Technologists (TN)</td>
<td>$46,700</td>
<td>$63,100</td>
</tr>
<tr>
<td>Radiologic Technologists (US)</td>
<td>$50,260</td>
<td>$71,600</td>
</tr>
</tbody>
</table>

Career Salary information taken from http://tcids.tbr.edu. Check out this Web site for additional information about education requirements and preferred work styles and abilities for these careers. Salaries are not guaranteed and vary dramatically by area of the country, state, and community as well as setting (ie, hospital, clinic, or physician’s office.)

Opportunities
Columbia State’s 22-month program prepares graduates for the national registry examination in radiography administered by the American Registry of Radiologic Technologists (ARRT). Graduates may pursue additional formal education (certificates, BS or MS degrees) at other institutions through traditional or online formats. Future employers may also offer on the job training in various specialty areas.

www.columbiastate.edu/radiology
RADIOL OGY

Major in Radiologic Technology (A.A.S.)

(Designed for the student who does not intend to transfer into a baccalaureate degree program. Many B.S. Radiologic Science programs do accept the A.A.S. degree along with certification by the ARRT as part of their academic entry requirements.)

The total program is 22 months in length and requires clinical and didactic competency as outlined in the curriculum. Clinical competency is obtained through completion of practicum objectives in approved clinical education settings throughout middle Tennessee. Transportation to and from clinical education settings is the sole responsibility of each individual student.

Program enrollment is limited by clinical education settings capacity and interview or admission is not guaranteed. Formal interviews with the Radiologic Technology Advisory Committee are held in the spring each year. New classes begin the second summer term. Applicants should schedule a preliminary interview/orientation in the summer or fall to allow sufficient time for completion of all required forms prior to February 1 of the following year. Applicants with the highest combined academic potential scores and preliminary interview/orientation scores who have completed all admission requirements will be considered for interviews with the committee.

Following the formal interviews, applicants will be notified of their admission status by the Radiologic Technology department.

Criminal background checks and routine drug screening are requirements at most affiliated clinical training sites. Based on the results of the criminal background check or drug screen, an affiliated clinical site may determine to not allow a student’s presence at their facility. This could result in the inability to successfully complete the requirements of a specific course and the program. More information is available from the program director.

Notice of Felony or Misdemeanor Convictions
The American Registry of Radiologic Technologists (ARRT) has stringent rules regarding misconduct and eligibility to take the national registry exam. If you have been convicted of any felony or misdemeanor offense(s), you may complete the pre-application review process with the ARRT prior to program enrollment to avoid delays and uncertainty regarding certification eligibility. The pre-application review form is downloadable from the Ethics section of ARRT’s Web site at www.arrt.org or by phoning ARRT at (651) 687-0048. The application for certification by the ARRT asks the following questions: “Have you ever been convicted of a misdemeanor, felony, or a similar offense in a military court-martial?” “Have you had any license, registration, or certification denied revoked, suspended, placed on probation, or subject to discipline by a regulatory authority or certification board (other than ARRT)” “Have you ever been suspended, dismissed, or expelled from an educational program that you attended in order to meet ARRT certification requirements?”

In the event that a student or graduate of the Radiologic Technology Program is concerned about ARRT eligibility, it is the sole responsibility of the student or graduate to certify eligibility with the ARRT.

Upon satisfactory completion of the program, students are awarded the Associate of Applied Science degree and are eligible to apply for the certification exam by the American Registry of Radiologic Technologists (ARRT).

Accreditation
The Radiologic Technology Program is fully accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT).

Joint Review Committee on Education in Radiologic Technology
20 N. Wacker Dr., Suite 2850, Chicago, IL 60606-3182
312.704.5300 • www.jrcert.org

Accreditation guidelines concerning program requirements, standards, general information, etc., are contained in the Standards for an Accredited Educational Program in Radiologic Sciences published by the Joint Review Committee on Education in Radiologic Technology (JRCERT) and available in faculty offices and accessible via the JRCERT Web site at www.jrcert.org. The Standards and additional program information are available in the Radiologic Technology Applicant Handbook located Online at www.columbiastate.edu/radiology.

Mission Statement
We endeavor to provide educational experiences leading to success, professionalism, and opportunity in the radiologic sciences.

Fulfillment of the program’s mission is assessed by the degree to which the following goals and objectives are achieved by students, graduates, and/or the program:

Goal 1. Ensure that each graduate technologist has attained a level of didactic and clinical competence that provides successful entry into the profession.
   1.1. Demonstrate the ability to accurately perform routine and special procedures.
   1.2. Obtain a passing score on ARRT Exam.
   1.3. Exercise independent judgment and discretion in the technical performance of medical imaging.

Goal 2. Promote and maintain high academic and professional standards.
   2.1. Enroll students who demonstrate potential for academic and professional success.
   2.2. Demonstrate the ability to communicate effectively in the medical environment.
   2.3. Function as a team member in the radiology department.
   2.4. Demonstrate the ability to use problem-solving and critical-thinking skills necessary for the profession.
   2.5. Apply radiation protection principles to the patient, self, and others.
Goal 3. Provide a foundation for advanced study in the radiologic sciences.
3.1. Pursue advanced degrees or certification.
3.2. Participate in advanced imaging modalities.
3.3. Develop the habit of continuing education participation during program enrollment.

Goal 4. Maintain program effectiveness in compliance with program and accreditation standards. Assessed by the degree to which program students/graduates achieve the following objectives:
4.1. Demonstrate successful completion of courses, the program, ARRT certification, and job placement rate.

Achievement of the goals are measured by the program’s Outcomes Assessment plan completed annually.

Admission Requirements

1. Meet all college general requirements for admission as a degree-seeking student as stated in the catalog and be admitted to the college.
2. Review “Programs with Special Admissions Requirements,” p. 18 in the Columbia State Catalog and Student Handbook.
3. Completion of all required Learning Support courses in reading, writing, and math by the end of the fall semester prior to the year in which admission is sought.
4. ACT or SAT exam results are required of all applicants. Applicants must have an ACT composite score of 19 or higher (equivalent to an SAT score of 900 or higher).
5. Have earned a cumulative grade point average (GPA) of 2.5 or above on a 4.0 scale for academic subjects. The high school GPA is used for students who have earned less than 12 college credit hours. An applicant who has not earned 12 credit hours of college-level credit that has no high school GPA must have an average standard score of at least 530 on the GED.
6. Schedule, attend, and complete a preliminary interview/orientation. Applicants will receive all paperwork and a full explanation of what to expect at the preliminary interview/orientation. A group policy is available. The fee is assessed annually as a part of the registration fees.
7. Program application requirements listed above must be completed before February 1. This includes the two Letter of Recommendation forms provided at the preliminary interview/orientation, completion of the clinical observation assignment, and review of the Radiologic Technology Applicant Handbook available Online at www.columbiastate.edu/radiology. The handbook contains the Radiologic Technology Student Policy Manual, a copy of the Standards adopted by the JRCERT, the Radiography Practice Standards, the ARRT’s Standard of Ethics, and an estimated cost sheet. The applicant must also return the observation documentation.
8. Applicants must be able to physically manipulate and operate equipment, manipulate patients, and visually assess patients, test results, and the working environment. They must be able to clearly communicate, both verbally and in writing, make appropriate judgment decisions in emergency or other situations, and demonstrate emotional stability and psychological health in day-to-day interaction with patients, their family members, and personnel.
9. In compliance with the Americans with Disabilities Act, students are encouraged to register with the Office of Counseling/Disability Services for possible assistance with accommodations. It is the student’s responsibility to voluntarily and confidentially provide appropriate documentation regarding the nature and extent of a disability. Students requesting accommodation are (strongly) encouraged to contact the office of Disability Services at (931) 540-2857 at the beginning of the semester.
10. College credit for Human Anatomy & Physiology I & II and the required college level math course (Elementary Statistics or Pre-Calculus Algebra) must be within the past five years to count toward the Radiologic Technology degree or the course(s) must be repeated.

Completion of the items listed above denotes consideration for an interview but in no way implies or guarantees an interview or admission to the program.

11. Once admitted, students are required to submit documentation of the following entry requirements prior to the first day of clinical assignment. If the documentation is not completed prior to the first day of clinical assignment, students will not be permitted to go to clinical.
   a. Health Requirements: All radiologic technology students must submit evidence of good health by returning a completed Physical Examination form. Forms are given to the student upon acceptance into the program. All students must have a:
      1. Documented negative TB skin test and/or chest x-ray yearly. TB skin tests must be within three months of the start of the program.
   2. Evidence of Immunity for:
      a. Rubella (positive titer).
      b. Varicella zoster (chicken pox) (positive titer).
      c. Rubella titer (positive titer).
      d. Tetanus/diphtheria booster within the past ten years.
   e. Hepatitis B
   b. Basic Cardiac Life Support (BCLS) Requirements: All students must submit evidence of a current BCLS certification (must include two-person CPR) for the health care professional. BCLS certification classes are offered by Columbia State Community College, health care organizations, or the American Heart Association.
   c. Malpractice insurance is required for all radiology clinical practicum courses. A group policy is available. The fee is assessed annually as a part of the registration fees.
   d. Health insurance is required. Students must provide evidence of health insurance coverage before clinical assignments may begin.
e. Criminal background checks and routine drug screens are required at most affiliated clinical training sites as a condition of participation in clinical education. Based on the results of these tests, an affiliated clinical site may determine to not allow your presence at their facility. This could result in the inability to successfully complete the requirements of a specific course and the program. More information is available from the program director.

f. Attend an educational session related to the benefits of the Hepatitis B vaccine and, if not already immunized, complete the vaccination series. Students are required to provide results of a titer documenting levels of immunity to program or institutional officials.

Admission Procedures

1. Submit the following to the Admissions office.
   a. Completed Application for Admission to the College.
   b. Official college transcripts from all colleges previously attended.
   c. High school transcripts or GED® results.
   d. ACT or SAT exam results.
2. Schedule and attend an preliminary interview/orientation listed at www.columbia state.edu/radiology.
3. Submit completed program application forms received at an preliminary interview/orientation.
4. If an applicant does not meet the admission criteria, he/she will be notified in writing. If the applicant wishes to complete his/her file and application to establish eligibility for consideration the following year, remaining requirements must be submitted and the program director must be notified of the intent in writing.

Continuation Requirements

In order to continue in the Radiologic Technology Program, students must meet the following academic requirements:

1. Earn a “C” or higher in each radiologic technology course and each required math and science course.
2. Maintain a minimum GPA of 2.0 after admission and prior to enrollment as well as during each term of enrollment in the program.
4. Enroll in all required general education courses during (or before) the semester listed in the curriculum outline.
5. Submit annual TB skin test results to the Health Sciences/Records Clerk’s office in the Warf Building, room 130A.
6. Maintain evidence of uninterrupted medical insurance coverage in designated program/institutional offices.

Students who do not meet the continuation requirements will be dismissed from the Radiologic Technology Program. Students who have been dismissed from the program may be qualified to continue courses in the College, but will not be permitted to register in radiology courses without readmission to the program.

Readmission Requirements

Only one readmission into the Radiologic Technology Program is permitted. Readmission into the Radiologic Technology Program after dismissal is not guaranteed, regardless of the reason for dismissal. A student who wishes to apply for readmission must do so, in writing, within 90 days of dismissal from the program. Regardless of the reason for dismissal, it is the sole responsibility of the student to request readmission in writing to the program director. The advisory committee for the Radiologic Technology Program will make a readmission decision after reviewing all student records and interviewing the student.

Due to the rapid change of technology in the field of radiology:

1. If three or more years has elapsed since enrollment in the program, the radiology courses must be repeated.
2. If five or more years have elapsed since previous college enrollment or completion of the following courses, these requirements apply:
   a. Anatomy and Physiology courses must be repeated.
   b. Required college level math course (Elementary Statistics or Pre-Calculus Algebra) must be repeated.
   c. All current application/enrollment requirements will apply and must be met.
3. A Conference Record form completed upon the student’s dismissal from the program must be on file to be eligible for readmission.

Readmission Procedures

1. Submit a written readmission request to the program director within 90 days of dismissal from the program.
2. Provide written documentation to the Radiologic Technology Program director stating the reason(s) for withdrawal or failure and indicate actions the student has followed to ensure success in the program if readmitted. This documentation must be submitted before a student’s application for readmission will be considered.
3. The Radiologic Technology Program director will notify the student by mail when and where the interview will be held.
4. The Radiologic Technology Program director will notify the student by mail of his/her readmission status once the readmission process has been completed.

Program enrollment is limited by clinical education settings capacity and readmission will be considered only if there are positions available within the class.
# Radiologic Technology

## Program Requirements

The courses below are applicable to degree requirements. Students may be required to take additional Learning Support courses.

**Communications Requirement**
- ENGL 1010 or 1020
- SPCH 1010 or SPCH 1030

**Humanities/Fine Arts (Take 1 course)**
- ART 1030
- ARTH 2010, 2020
- ENGL 2130, 2230, 2330
- HUM 1130, 1131
- MUS 1030
- PHIL 1030, 2030, 2033
- THEA 1030

**Natural Sciences Requirement (Take 2 courses)**
- BIOL 2010 and 2020*

**Mathematics Requirement (Take 1 course)**
- MATH 1530 or 1710*

*Biology and math courses must have been completed no more than five years prior to start of the program.

**Social/Behavioral Sciences (Take 1 course)**
- ECON 1010, 1020, 2010
- GEOG 1010, 1020, 2010
- PHED 2120
- POL 201
- POLS 1030, 2030
- SOC 210
- SOCI 1010, 1020, 2010

**Core Courses**
- INFS 1010

Readmission/Transfer Students: See details in catalog. All RAD courses must be repeated if three or more years have elapsed since prior enrollment.

**For more information contact:**
radtech@columbiastate.edu

or
Health Sciences Division office at 931.540.2600 or 931.540.2599

or
www.columbiastate.edu/radiology

If you have completed Regents Online Degree Program (RODP) courses, download a course equivalency table from www.columbiastate.edu/course-transfers to determine how those courses apply to this program.

## Course Sequence

### First Year – Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 101</td>
<td>Introduction to Radiography</td>
<td>2</td>
</tr>
<tr>
<td>RAD 112</td>
<td>Image Production I</td>
<td>2</td>
</tr>
<tr>
<td>Social/Behavioral Science</td>
<td></td>
<td>3</td>
</tr>
</tbody>
</table>

### First Year – Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 113</td>
<td>Image Production II</td>
<td>2</td>
</tr>
<tr>
<td>RAD 121</td>
<td>Radiographic Positioning I</td>
<td>3</td>
</tr>
<tr>
<td>MATH 1530</td>
<td>Elementary Statistics or</td>
<td></td>
</tr>
<tr>
<td>MATH 1710</td>
<td>Precalculus Algebra</td>
<td>3</td>
</tr>
<tr>
<td>ENGL 1010</td>
<td>Composition I or</td>
<td></td>
</tr>
<tr>
<td>ENGL 1020</td>
<td>Composition II</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2010</td>
<td>Human Anatomy &amp; Physiology I</td>
<td>4</td>
</tr>
<tr>
<td>INFs 1010</td>
<td>Computer Applications</td>
<td>3</td>
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</table>

### First Year – Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 106</td>
<td>Radiation Physics</td>
<td>2</td>
</tr>
<tr>
<td>RAD 122</td>
<td>Radiographic Positioning II</td>
<td>2</td>
</tr>
<tr>
<td>RAD 123</td>
<td>Contrast Media Procedures</td>
<td>2</td>
</tr>
<tr>
<td>RAD 190</td>
<td>Radiologic Practicum I</td>
<td>3</td>
</tr>
<tr>
<td>BIOL 2020</td>
<td>Human Anatomy &amp; Physiology II</td>
<td>4</td>
</tr>
<tr>
<td>Humanities/Fine Arts</td>
<td></td>
<td>3</td>
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</tbody>
</table>

### Second Year – Summer Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 291</td>
<td>Radiologic Practicum II</td>
<td>6</td>
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</tbody>
</table>

### Second Year – Fall Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 241</td>
<td>Radiographic Special Procedures</td>
<td>2</td>
</tr>
<tr>
<td>RAD 292</td>
<td>Adv. Radiation Physics &amp; Radiobiology</td>
<td>2</td>
</tr>
<tr>
<td>RAD 294</td>
<td>Radiologic Practicum III</td>
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</tr>
<tr>
<td>SPCH 1010</td>
<td>Fundamentals of Speech Communication or</td>
<td>3</td>
</tr>
<tr>
<td>SPCH 1030</td>
<td>Argumentation and Debate</td>
<td></td>
</tr>
</tbody>
</table>

### Second Year – Spring Semester

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>RAD 251</td>
<td>Survey of Medical &amp; Surgical Diseases</td>
<td>2</td>
</tr>
<tr>
<td>RAD 281</td>
<td>Radiation Protection &amp; Radiologic Seminar</td>
<td>2</td>
</tr>
<tr>
<td>RAD 295</td>
<td>Radiologic Practicum IV</td>
<td>8</td>
</tr>
</tbody>
</table>

### TOTAL CREDIT HOURS 74

Requirements for Graduation include:
- earning 25% of total program credits in residence at Columbia State.
- GPA of at least 2.0 in program courses.
- cumulative GPA must at least 2.0.
- taking the Exit Exam.