RADIOLOGIC TECHNOLOGY PROGRAM

General Information

Radiologic Technology is a health care profession whose practitioners work in hospitals, imaging centers, clinics and private physicians’ offices. The radiologic technologist (radiographer) is a member of the health care team who works directly with the patient and the physician performing a wide variety of diagnostic x-ray procedures. The role of the graduate radiographer may be that of staff radiographer, special imaging radiographer, supervisor, administrator or educator, depending upon the level of education and experience obtained.

The Bakersfield College Associate in Science Degree Radiologic Technology Program provides concurrent didactic and clinical education. The Program is 24 months in length (excluding prerequisite coursework) and begins each year in June. Students should anticipate making a fulltime commitment to the Program during the school year. Summer sessions are required and may be scheduled beyond the regular college session dates. The Program is primarily scheduled during the day; however, an evening clinical rotation will be completed during the second year of the Program. Clinical education sites include hospitals and imaging centers located in Bakersfield, California and Delano, California. Students may be assigned to any clinical education center in any geographical location and must provide their own transportation to the clinical education centers.

The Program provides the theory, skill, and experience necessary to apply for admission to the licensure exam administered by the American Registry of Radiologic Technologists (ARRT); and for licensure from the State of California, Department of Public Health, Radiologic Health Branch, as a Certified Radiologic Technologist (CRT). The student is also eligible to write the State Fluoroscopy Permit exam. Students must earn a minimum grade of “C” in all radiography courses, have met the state-mandated curriculum and clinical hours, met all clinical education competencies, and earned the Associate in Science degree to be recommended for these examinations/certifications.

For more career information it is highly recommended students, consult the American Society of Radiologic Technologists (ASRT) at www.asrt.org. Review the ASRT “career center” section of the website and explore careers in radiography, radiation therapy, nuclear medicine, and sonography.

Enrollment Procedures and Application Filing Period

Application forms and all required documents must be received by the Radiologic Technology Program Office during the application month of February. Late applications will not be accepted.
Application Procedures

It is the students’ responsibility to ensure that the following items are completed prior to the end of the application period held in the month of February:

1. Complete required prerequisite courses (refer to page 3).

2. Obtain application form from the Allied Health Department located in Room 178 of the Math-Science Building on the main campus, or on the Allied Health website at www.bakersfieldcollege.edu/allied-health/radtech

3. Arrange for an official copy of your high school transcript to be mailed directly to the: Radiologic Technology Program, Bakersfield College, 1801 Panorama Drive, Bakersfield, CA 93305. An official copy of High School Equivalency (GED) is required if your high school transcript does not identify graduation.

4. If you are a Bakersfield College Student with no college courses other than BC courses: Provide the Program with an unofficial Bakersfield College transcript from the college website or an unofficial transcript from the Admissions & Records Office.

5. If you have taken courses from any college other than Bakersfield College:
   a) Apply for admission to Bakersfield College either in person or online at www.bakersfieldcollege.edu and click on Admissions & Records. Follow the information under Enrollment.
   b) Have your college transcript(s) evaluated by:
      - Ordering an Official copy of your transcripts from your previous college(s);
      - Submit the Official copy of your transcripts along with a form “Request for Evaluation”. You can obtain this form from the Admissions and Records office or from the Admissions and Records web-page (see above) under Other Forms.
      - Once your transcripts have been evaluated and posted to your Bakersfield College transcripts, either order an official copy to be sent from the Admission and Records office or print your unofficial transcript and submit along with the Application Form to the Radiologic Technology Program during the application filing period during the month of February.
      - If you have taken courses from Porterville or Cerro Coso Community College, you only need to submit the “Request for Evaluation” form. You do not need official copies of transcripts from Porterville or Cerro Coso Community College

Note: The process of evaluating transcripts can take 25 weeks. Once your transcripts have been evaluated and posted to your Bakersfield College transcript, the student must print a copy of the Bakersfield College transcript from the website and then submit it to the Program prior to the end of the application filing period during the month of February. It is the responsibility of the student to supply this information to the Program.

6. Late application materials will not be considered for the current application period. Applicants are responsible for ensuring that their application is complete. The Program is not responsible for late materials or incomplete applications. The application must be thoroughly complete and signed to be considered for eligibility.

7. Students on the waitlist must reapply annually during the enrollment month of February. This is required every year to keep the applicant’s file current. If the student does not reapply, the student will be removed from the waitlist.
Radiologic Technology Program Prerequisite Requirements

All prerequisite coursework must be completed prior to applying for the Radiologic Technology Program. Students are strongly encouraged to complete prerequisite courses prior to enrolling in general education courses. This will improve a student’s opportunity to apply for program enrollment. The following prerequisite courses must be completed with a grade “C” or higher.

1. BIOL B18 (Essentials of Anatomy and Physiology – 4 units) at Bakersfield College or
   BIOL B32 (Human Anatomy and Physiology I – 4 units) and
   BIOL B33 (Human Anatomy and Physiology II – 4 units) at Bakersfield College or
   equivalent courses(s) at another accredited college
   **Note:** BIOL B14 (Human Anatomy) and BIOL B15 (Human Physiology) were previously taught at BC and they meet this requirement.

2. MATH B70 (Previously MATH BD) (Intermediate Algebra – 5 units) at Bakersfield College or
   equivalent course at another accredited college
   **Note:** A higher level college math course will be accepted in lieu of this algebra requirement. For students who use a higher level math course in lieu of Intermediate Algebra the same requirements for minimum cumulative grade point average and number of course attempts apply in order to meet program prerequisites.

3. MEDS B60 (Medical Terminology – 3 units) at Bakersfield College or
   equivalent course at another accredited college

4. ENGL B1A (Expository Composition – 3 units) or
   equivalent course at another accredited college

5. Minimum cumulative grade point average of 2.7 with MATH B70 (Previously MATH BD) passed on the first attempt; or
   Minimum cumulative grade point average of 2.9 with MATH B70 (Previously MATH BD) passed on the second attempt.
   **Note:** All course attempts including grades of “D”, “F” and withdrawals (W) are included in the review of the course attempts. Students with more than two math attempts are not initially eligible for the program.

Remediation Plan:

Students who do not initially meet the eligibility requirement for passing the MATH B70 (previously MATH BD) prerequisite within two attempts must complete all of the following remediation requirements to be considered eligible to apply for the Radiologic Technology Program.

- Completion of ACDV B70a-B70f - Study Skills courses with a “CR” grade
- Completion of MATH B22 Elementary Probability and Statistics with a minimum grade of “C” on the first course attempt and maintenance of a 2.9 GPA.
- Successful completion of the Remediation Program must be completed within 1 year of initial application to the program.

Students who do not meet the grade point average (GPA) eligibility requirement of either 2.7 or 2.9 are advised to research and complete, if applicable, an Academic Renewal request through the Bakersfield College established process identified in the college catalog for a recalculation of their GPA. This academic renewal must be documented on the Bakersfield College transcript. Documentation of completion of the remediation plan must be submitted to the Program at the time of application. Documentation is made through college transcripts.

6. Graduation from high school or an equivalent education (GED).
General Education Requirements

General education courses are required to graduate from the Bakersfield College Associate in Science Degree Radiologic Technology Program. It is suggested that these courses be completed prior to program enrollment. Refer to the Bakersfield College General Education and Graduation Requirements in the college catalog ([www.bakersfieldcollege.edu](http://www.bakersfieldcollege.edu)) for more specific information and requirements for the college (the list below does NOT identify all requirements). All students are encouraged to regularly check the college requirements for graduation and/or meet with a Counselor/Advisor to ensure that AS degree requirements will be met at the end of the Radiography Program. Completion of the AS Degree is required to meet eligibility requirements for certification and licensure.

- **A.** A.1 Oral Communication (3 units)
  COMM B1 recommended; Any course listed in Area A.1 of the Gen Ed Pattern in BC Catalog
  A.2 Written Communication (3 units)
  ENGL B1A– prerequisite course

- **B.** Physical Universe and Life Forms (4 units)
  B.1 Natural Sciences (4-8 units)
  BIOL B18 or BIOL B32 & BIOL B33
  B.2 Mathematics and Logic (3-5 units)
  MATH B70 (5 units) -prerequisite course

- **C.** Arts, Literature, Philosophy, and Foreign Language (3-5 units)
  PHIL B12 recommended or any course in Area C: Gen Ed Pattern in the BC Catalog

- **D.** Social, Political, Legal and Economic Institutions & Behavior, Historical Background (6 units)
  D.1 Foundations in the Behavioral Sciences (3 units); Any course listed in Area D.1 of the Gen Ed Pattern in the BC Catalog
  or
  D.2 Foundations in the Social Sciences (3 units); Any course listed in Area D.2 of the Gen Ed Pattern in the BC Catalog
  and
  D.3 American (U.S. Institutions) (3 units)
  Any course listed in Area D.3 of the Gen Ed Pattern in the BC Catalog

- **E.** Lifelong Understanding and Self-Development (1 unit)
  - Physical Education 1 unit required from PHED courses listed in the BC catalog.
    - Rad Tech students are exempt from the 3 unit course in the psychological development category

- Educational Planning –STDV B1 recommended or any course listed in the BC Catalog General Requirements (Recommended to be taken during the first semester of courses at BC to assure priority registration.)

- Computer Studies (3 units): COMP B2 or COMP B5 or equivalent is necessary to meet Radiologic Technology Program completion

Enrollment Selection

In the event that the number of qualified students for the Associate Degree Radiologic Technology Program exceeds space available, the following selection process will be utilized:

Students who are qualified for enrollment will be admitted in the order in which their names appear on the Program Waitlist. To be placed onto the waitlist, all program prerequisites must be completed. An applicant’s position on this list will be determined by random drawing of names from the pool of qualified students. To remain current on the waitlist, an application form must be submitted annually during the application filing period in the month of February.
Estimated Program Costs (Gainful Employment)

Students will be required to purchase uniforms, textbooks, and supplies, pay current college fees and provide transportation to off campus clinical education centers in Bakersfield, California and Delano, California. For information on Estimated Program Costs, please visit our website at: http://www.bakersfieldcollege.edu/download/11612

Health Requirements and Screenings

1. After a student receives notification of enrollment into the Program, a physical examination will be required to demonstrate that the student meets the technical standards necessary to meet the objectives of the Program. The Essential Technical Standards required for Radiologic Technologist are listed on page seven of this brochure. A list may also be obtained at www.bakersfieldcollege.edu/allied-health/radtech.

2. As a condition of enrollment to the Radiologic Technology Program, all students are required to submit to and pass a designated drug and alcohol screen.

3. As a condition of enrollment in any Allied Health Program with a clinical component, students are required to submit to and pass a designated background screen. Every student offered space in the Program will be required to submit to a background screening as part of his or her clinical requirement for admission. Please note the following:
   - A history of felony conviction(s) or any bar, exclusion, or other ineligibility for federal program participation could render a student ineligible for clinical placement, as determined by the clinical agencies.
   - If a student cannot obtain background clearance from the clinical agencies, it will not be possible to place the student in the clinical areas, which is a required component of the Program.
   - In the event that a student cannot obtain a background clearance due to background restrictions, the space will be forfeited.
   - Students who are found to be ineligible for clinical placement by the clinical agency after admission to the radiography program shall be subject to dismissal from the Program, as they will be unable to complete mandatory clinical rotations.

4. Immunizations and health tests are needed for acceptance in a clinical education center, and to protect the health and welfare of the student and the community. Immunizations may include but are not limited to rubella, varicella, hepatitis B and seasonal influenza. A tuberculosis screening is also required.

5. The medical exam, drug and alcohol screen, background screen, immunizations, and health tests are performed at the expense of the student.

6. The student must possess a current American Heart Association BLS for Healthcare Providers (CPR & AED) card. This card must be provided at the start of the Program and be kept valid during the entire 24-month Program.
## RADIOLOGIC TECHNOLOGY CURRICULUM

All courses used for meeting the requirements for degrees must be completed with a grade “C” or higher.

The following courses are taken after students have been formally enrolled into the Associate of Science Degree Radiologic Technology Program.

### FIRST SUMMER SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B1A</td>
<td>Introduction to Radiologic Technology</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B1B</td>
<td>Patient Care</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B4A</td>
<td>Introduction to Clinical Education</td>
<td>1.5</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>5.5</strong></td>
</tr>
</tbody>
</table>

### FIRST FALL SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B2A</td>
<td>Radiographic Anatomy &amp; Positioning 1</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B3A</td>
<td>Radiographic Principles 1</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B4B</td>
<td>Clinical Education 1</td>
<td>4.0</td>
</tr>
<tr>
<td>RADT B12</td>
<td>Radiobiology &amp; Radiation Protection</td>
<td>2.0</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>12.0</strong></td>
</tr>
</tbody>
</table>

### FIRST SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B2B</td>
<td>Radiographic Anatomy &amp; Positioning 2</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B3B</td>
<td>Radiographic Principles 2</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B6</td>
<td>Clinical Education 2</td>
<td>5.0</td>
</tr>
<tr>
<td></td>
<td>General Education (if needed)</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>11.0-14.0</strong></td>
</tr>
</tbody>
</table>

### SECOND SUMMER SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B7</td>
<td>Clinical Education 3</td>
<td>6.5</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>6.5</strong></td>
</tr>
</tbody>
</table>

### SECOND FALL SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B2C</td>
<td>Radiographic Anatomy &amp; Positioning 3</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B5</td>
<td>Radiation Physics</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B10</td>
<td>Clinical Education 4</td>
<td>7.0   (Fall 2016)</td>
</tr>
<tr>
<td></td>
<td>General Education (if needed)</td>
<td>3.0</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>13.0-16.0</strong></td>
</tr>
</tbody>
</table>

### SECOND SPRING SEMESTER

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
<th>Units</th>
</tr>
</thead>
<tbody>
<tr>
<td>RADT B9A</td>
<td>Sectional Anatomy for Medical Imaging</td>
<td>3.0</td>
</tr>
<tr>
<td>RADT B11</td>
<td>Radiographic Pathology</td>
<td>2.0</td>
</tr>
<tr>
<td>RADT B30</td>
<td>Principles of Venipuncture</td>
<td>1.0</td>
</tr>
<tr>
<td>RADT B13</td>
<td>Clinical Education 5</td>
<td>6.0</td>
</tr>
<tr>
<td><strong>Total:</strong></td>
<td></td>
<td><strong>12.0</strong></td>
</tr>
</tbody>
</table>

**Note:** The clinical components of all radiologic technology courses are graded on a pass/no pass basis only. Radiologic Technology students are exempt from the maximum of three pass/no pass units which may be taken in a semester and from the maximum of 12 pass/no pass units which may be applied toward the Associate in Science degree at Bakersfield College.

### Admission To The College/Financial Aid

For further information on Bakersfield College, please contact the:

- Office of Admissions & Records: 661-395-4301
- Counseling Center: 661-395-4421
- Assessment Center: 661-395-4479
- Financial Aid and Scholarships: 661-395-4427
- Bookstore: 661-395-4506
Essential Technical Standards for Radiologic Technology Students
Radiologic Technology students must meet the following essential technical standards to ensure the safety and welfare of the patients, the healthcare team, and themselves. A physical examination completed by an MD/NP/PA of the student’s choice determines whether or not a student meets the technical standards or determines what accommodation may be necessary.

- Capable of standing and/or walking up to seven hours throughout an eight-hour shift.
- Bend, crouch, or stoop several times per hour.
- Lift and carry a minimum of 30 pounds several times an hour.
- Lift and move up to a 300-pound patient in a 2-3 person transfer.
- Reach overhead above the shoulder 90 degrees.
- Push and/or pull objects and equipment weighting up to 300 pounds.
- Utilize eyesight to observe patients, manipulate equipment and accessories to evaluate radiographs for technical quality under various illumination levels from low levels of illumination to amber/red lighting to bright light levels.
- Capable of hearing to effectively communicate with the patient and healthcare team.
- Utilize sufficient verbal and written skills to effectively and promptly communicate in English with the patient and healthcare team.
- Manipulate radiologic and medical equipment and accessories, including but not limited to switches, knobs, buttons, and keyboards, utilizing fine and gross motor skills.
- Perform the assigned job responsibilities with the intellectual and emotional functions necessary to ensure patient safety, and exercise independent judgment and discretion.
- Utilize the above standards/functions to respond promptly to patients’ needs and/or emergency situations.

Program Accreditation
Bakersfield College is accredited by the Western Association of Schools and Colleges. The Radiologic Technology Program is accredited by the Joint Review Committee on Education in Radiologic Technology (JRCERT), 20 N. Wacker Drive, Suite 2850, Chicago, IL 60603-3182, 312-704-5300 or www.jrcert.org. The Program is also approved by the State of California, Department of Public Health, Radiologic Health Branch, PO Box 997414, MS-7610, Sacramento, CA 95899-7414, 916-327-5106 or www.cdph.ca.gov/rhb.

Licensure/Certification Eligibility
The American Registry of Radiologic Technologist (ARRT) requires review of the following:
- Misdemeanor or felony charges and convictions and military court-martials
- Sanction by the Program regarding an academic honor code
- Licensure suspension or denial
- Other disciplinary action by a regulatory authority or certification board other than the ARRT
An ethics review pre-application may be conducted prior to or during the Program. For more information, contact the ARRT at: 1225 North Highland Drive, Mendota Heights, MN 55120, 651-687-0048 or www.arrt.org.
The State Department of Public Health, Radiologic Health Branch and the American Registry of Radiologic Technologists require possession of a valid Social Security Number to apply for licensure and/or registration.
Radiologic Technology Program Mission, Goals and Outcomes

The mission of the Bakersfield College Associate in Science Degree Radiologic Technology Program is to promote student success by providing quality instruction for graduates to competently practice radiography at the entry level.

Program Learning Goals and Outcomes:
(Goals 1-5; Learning Outcomes a,b,c, etc.)

1) Students will be clinically competent.
   a) Students will apply positioning skills.
   b) Students will select exposure factors.
   c) Students will utilize radiation protection
   d) Students will demonstrate and employ knowledge of equipment operation.

2) Students will develop critical thinking skills.
   a) Students will demonstrate the ability to formulate technical factors.
   b) Students will adapt standard procedures for non-routine patients.
   c) Students will demonstrate independent judgment.
   d) Students will critique images to determine diagnostic quality.

3) Students will communicate effectively.
   a) Students will demonstrate effective communication.
   b) Students will use correct pronunciation.

4) Students will model professionalism.
   a) Students will demonstrate knowledge of professional imaging organizations.
   b) Students will summarize the value of life-long learning.
   c) Students will demonstrate work ethics.

5) The Program will graduate entry-level radiographers.
   a) Program graduates will pass the ARRT exam on the 1st attempt.
   b) Graduates seeking employment will obtain employment within 12 months of graduation.
   c) Students will successfully complete each course.
   d) Students will successfully complete the program.
   e) Graduates will be satisfied with their education.
   f) Employers will be satisfied with graduate performance.

Affirmative Action/Equal Opportunity Statement

In accordance with the requirements of the Civil Rights Act, Bakersfield College provides services and benefits to students regardless of race, color, national origin, gender, age, religion, marital status, medical condition or disability. The lack of English language skills will not be barrier to administration and participation in vocation education programs. 

(Title VI and VII of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; and Section 503 and 504 of the Rehabilitation Act of 1973, as amended.)