**RADIOLOGIC TECHNOLOGY**

**Health, Athletics, Wellness, and Kinesiology Division**

Ian Haslam, Division Dean  
Division Office, Room 1102  
Ann Smeltzer, Department Chair (831) 479-5056  
Aptos Counseling: (831) 479-6274 for appointment  
Watsonville Counseling: (831) 786-4734  
Call (831) 479-6461 for more information  
http://www.cabrillo.edu/programs

**SELECTION PROCESS ANNOUNCEMENT**

Effective January 1, 2017, the total number of students placed into the program will be comprised of 50% from the current wait list and 50% random selection from remaining wait listed students regardless of the order of post mark for the application.

Students who apply during the application window, May 1, 2016 – July 15, 2016 will be the last group of applicants who, if qualified, will be placed on the wait list.

Students currently on the wait list retain their wait list # based on post mark date of application. Students placed into the program are notified by January each year.

Effective for the application window, May 1, 2017 – July 15, 2017, qualified applicants will no longer be placed onto the wait list. This group of students will be placed into the program by random selection: 50% from wait list and 50% random selection. If not selected by random selection into the cohort that will start fall 2018, students may re-apply the following year.

After all students on the wait list have been offered placement into the program in accordance with the 50% wait list and 50% random selection method, 100% selection will be from annual application by random selection.

As of January 1, 2017, there will no longer be a process by which a one-time one year deferral may be granted once a student is placed into the program.

This revised selection process will be implemented starting January 1, 2017, one year after being announced and posted publicly.

Please contact the RT Program Office at (831) 479-6461 for dates of the Selection Process information meetings to clarify this process and answer any questions.

**Radiologic Technology A. S. Degree**

This is a two-year Associate in Science Degree program providing professional training for radiologic technologists. Radiologic Technologists work in a professional environment at a hospital, clinic, or private office. Skill categories include patient care, positioning, operating X-ray equipment, image quality assessment, technical factors, and interacting with the general public, ancillary workers, and physicians.

The RT Program is accredited by the Joint Review Committee on Education in Radiologic Technology and the state of California Department of Public Health. This program has earned the highest level of accreditation awarded by the JRCERT. A new class begins each year at the start of fall semester. Students who successfully complete the program are eligible for State Certification in Diagnostic Radiography and to take the State Permit exam in Fluoroscopy. Program graduation also provides eligibility to sit for the American Registry of Radiologic Technology (ARRT) national board examination. Program applications are accepted on a first come, first served basis.

**Requirements for application include:** Successful completion of the program prerequisites listed below, and the completion of the
application process. Selection is based on completion of all required prerequisites with the appropriate GPA, clinical space availability, and date of application. The program has a separate selection process and requires separate application in addition to the general College admission. For students not currently enrolled at Cabrillo College, general college application materials are available at the Cabrillo College website. Radiologic Technology program applications are available at www.cabrillo.edu/academic/radtech. Official transcripts must be sent with the program application. After reading the appropriate sections of the Cabrillo College Catalog, please contact the RT office at (831) 479-6461 for specific questions regarding the application. Due to the course load, it is advisable to complete as many of the general education requirements as possible before entering the program. Meeting minimum requirements does not guarantee entry into the program as enrollment is limited due to hospital clinical space.

Learning Outcomes
1. Students will demonstrate good patient communication.
2. Students will be clinically competent.
3. Students will participate in professional development/growth.
4. Students will demonstrate problem solving and critical thinking skills.
5. Graduates will be employed and effective in the community.

Prerequisites

<table>
<thead>
<tr>
<th>Prerequisites</th>
<th>Units</th>
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<tbody>
<tr>
<td>BIO 4</td>
<td>Human Anatomy</td>
</tr>
<tr>
<td>BIO 5</td>
<td>*Human Physiology</td>
</tr>
<tr>
<td>PHYS 10</td>
<td>Introduction to Physics</td>
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<tr>
<td>PSYCH 1</td>
<td>General Psychology</td>
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<tr>
<td>ENGL 1A/1AH/1AMC/1AMCH</td>
<td>3</td>
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*A course such as CHEM 30A or CHEM 32 is the prerequisite for BIO 5; Intermediate Algebra (MATH 142 or MATH 152) or placement into Intermediate Algebra (MATH 142 or MATH 152) by assessment is a prerequisite to CHEM 30A or CHEM 32. Please see a counselor or check www.assist.org for more information if you are interested in transfer to a 4-year university in Radiologic Technology. All prerequisite and published curriculum courses must be completed with a grade of "C" or better. These prerequisites may also be used to satisfy appropriate general education areas.

It is required that prerequisite courses, specifically BIO 4, BIO 5 and MA 70, be completed within six years.

Elective Not Required for Radiologic Technology Degree

<table>
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<tr>
<th>Elective Not Required for Radiologic Technology Degree</th>
<th>Units</th>
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<tbody>
<tr>
<td>RT 101</td>
<td>Patient Care in Imaging Technology</td>
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General Education Courses

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<tr>
<th>General Education Courses</th>
<th>21</th>
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This A.S. Degree requires completion of a 21-unit general education pattern (see Cabrillo College Catalog under Associate in Science Degree or the A.S. Degree worksheets available in Counseling Division or on the Transfer and Articulation website).

A Bachelor of Science/Bachelor of Arts Degree from a regionally accredited college or university will satisfy all general education and competency requirements for Cabrillo’s non-transfer A.A. and A.S. degrees, with the exception of the multicultural requirement and program specific graduation requirements.

Core Courses (60.75 Units)

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<thead>
<tr>
<th>Core Courses (60.75 Units)</th>
<th>Units</th>
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<tbody>
<tr>
<td>RT 50A</td>
<td>Patient Care in Imaging Technology</td>
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<tr>
<th>Core Courses (60.75 Units)</th>
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<tbody>
<tr>
<td>RT 50A</td>
<td>Patient Care in Imaging Technology</td>
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RT 50A Ethics and Legal Aspects of Radiologic Technology | 1 |
RT 50L R. T. Patient Care Laboratory | 0.25 |
RT 51 Radiographic Positioning I | 2 |
RT 51L Positioning Laboratory I | 1 |
RT 52 Radiation Physics | 2 |
RT 53AL Basic Radiologic Technology Laboratory/ Clinic I | 5.5 |
RT 53BL Radiologic Technology Laboratory/ Clinic II | 5.5 |
RT 53CL Radiologic Technology Laboratory/ Clinic III | 6 |
RT 54 Radiographic Image Assessment | 1 |
RT 60 Principles of Radiographic Imaging | 2 |
RT 60L Applied Principles of Radiographic Imaging Lab | 0.5 |
RT 61 Radiographic Positioning II | 2 |
RT 61L Radiographic Positioning Lab II | 1 |
RT 62 Principles of Radiation Protection | 2 |
RT 63AL Advanced Positioning Lab/ Clinic IV | 8 |
RT 63BL Advanced Positioning Lab/ Clinic V | 8 |
RT 70 Principles of Fluoroscopy | 1 |
RT 70L Applied Principles of Fluoroscopy | 0.5 |
RT 71 Radiographic Positioning III | 2 |
RT 71L Positioning Laboratory III | 1 |
RT 72 Advanced Diagnostic Imaging Research | 2 |
RT 73 Medical Imaging Pathology | 1 |
RT 82 Advanced Diagnostic Imaging | 1 |
RT 83 Transition to the Professional Role | 2 |
RT 175 Advanced Patient Care: Venipuncture for Radiographers | 0.5 |

Electives-Magnetic Resonance Imaging

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<tr>
<th>Electives-Magnetic Resonance Imaging</th>
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<tbody>
<tr>
<td>RT 189A Sectional Anatomy</td>
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Electives-Mammography

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<tbody>
<tr>
<td>RT 185 Principles of Mammography</td>
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<tr>
<td>RT 185C Principles of Mammography Lab/Clinic</td>
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<tr>
<td>RT 185L Principles of Mammography Lab</td>
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Elective-Sectional Anatomy

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<th>Units</th>
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<tbody>
<tr>
<td>RT 189A Sectional Anatomy</td>
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</tr>
<tr>
<td>RT 189AL Sectional Anatomy Laboratory</td>
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Total

| Total | 81.75 |

Mathematics Competency Requirement

The A.S. Mathematics Requirement may be met by successful completion of intermediate algebra or equivalent or a higher-level mathematics course with a grade of "C" or better. Successful completion must be verified by an official college transcript or by an appropriate score on the Cabrillo mathematics assessment.

Multicultural Requirement

An approved multicultural course is required for graduation. This course may be double counted with general education or other program graduation requirements. Courses taken at other regionally accredited colleges can be used when approved by a Cabrillo counselor.
Clinical Compliance Requirement
To comply with state and local regulations for health care providers, students accepted to the Cabrillo College Radiologic Technology program are required to meet vaccination and drug testing requirements and provide documentation before enrolling in the program. Students are also required to complete criminal background checks and may be required to undergo fingerprinting.

Total Units 81.75

Radiologic Technology Venipuncture Skills Certificate

Learning Outcome
Solve novel venipuncture problems with a variety of venous structures as presented with varying body types.

Required Course (.5 Units) Units
RT 175 Advanced Patient Care: Venipuncture for Radiographers .................................................... 0.5

Total .5

Radiologic Technology Courses

RT 50A Patient Care in Imaging Technology
2 units; 2 hours Lecture
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Required Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Provides the concepts of optimal patient care including: physical assistance, routine and emergency patient care, infection control, pharmacology, and bloodborne pathogen protection.

Transfer Credit: Transfers to CSU.

RT 50B Ethics and Legal Aspects of Radiologic Technology
1 unit; 1 hour Lecture
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Required Preparation: Eligibility for ENGL 100 or ESL 100 or READ 100.
Repeatability: May be taken a total of 1 time.
Examines ethical standards and legalities pertaining to the field of medical imaging. Assesses culture, age, and stage of illness when providing optimal patient care.

Transfer Credit: Transfers to CSU.

RT 50L R.T. Patient Care Laboratory
.25 units; .75 hours Laboratory
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Co-requisite: RT 50A.
Repeatability: May be taken a total of 1 time.
Provides practical application of the fundamentals of patient care in radiologic technology, to include radiation protection, body mechanics, contrast media preparation, vital signs, asepsis, HIPAA regulations, and standard precautions.

Transfer Credit: Transfers to CSU.

RT 51 Radiographic Positioning I
2 units; 2 hours Lecture
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Co-requisite: RT 51L.
Repeatability: May be taken a total of 1 time.
Provides optimal patient care and education in radiographic positioning principles. Related pathologies, their radiographic appearances and relative technical adjustments are included.

Transfer Credit: Transfers to CSU.

RT 51L Positioning Laboratory I
1 unit; 3 hours Laboratory
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Co-requisite: RT 51.
Repeatability: May be taken a total of 1 time.
Provides optimal patient care and education in radiographic positioning principles, with focus on radiographic examination procedures of the chest, abdomen, upper and lower extremities. Structured, individual, and group instruction is accompanied by laboratory demonstration by the instructor.

Transfer Credit: Transfers to CSU.

RT 52 Radiation Physics
2 units; 2 hours Lecture
Prerequisite: Acceptance to the Radiologic Technology Program.
Repeatability: May be taken a total of 1 time.
Provides a basic understanding of the physics underlying the properties and production of x-rays and interaction with matter. Fundamentals include atomic structure, principles of magnetism and current, electrical delivery, and x-ray tube design.

Transfer Credit: Transfers to CSU.

RT 53AL Basic Radiologic Technology Laboratory/Clinic I
5.5 units; 16.5 hours Laboratory
Prerequisite: Selection to the Cabrillo College Radiologic Technology Program.
Required Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Applies classroom theory (RT 50A, 51) and laboratory practice (RT 50L, 51L) in the clinical setting under direct supervision. The student optimally positions patients, while using safe patient care and radiation protection procedures and learns imaging department organization and procedures.

Transfer Credit: Transfers to CSU.

RT 53BL Radiologic Technology Lab/ Clinic II
5.5 units; 16.5 hours Laboratory
Prerequisite: RT 53AL.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Provides continued clinical application of classroom theory (RT51, 61) and laboratory practice (RT51L, 61L) in clinical education facilities by assignment. The student radiographer, under direct supervision, participates in, and/or performs radiographic procedures.

Transfer Credit: Transfers to CSU.
RT 53CL Radiologic Technology Laboratory/Clinic III
6 units; 18 hours Laboratory
Prerequisite: RT 53BL.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Reviews clinical application of classroom theory (RT 51 and 61) and laboratory practice (RT 51L and 61L) in clinical education facilities under direct supervision. The student participates in radiographic/fluoroscopic procedures, radiology management systems, computerized patient systems, radiation safety, and patient care.
Transfer Credit: Transfers to CSU.

RT 54 Radiographic Image Assessment
1 unit; 1 hour Lecture
Prerequisite: RT 52.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Provides a foundation for evaluating all radiographic images by outlining technical and digital imaging concepts.
Transfer Credit: Transfers to CSU.

RT 60 Principles of Radiographic Imaging
2 units; 2 hours Lecture
Prerequisite: RT 52
Co-requisite: RT 60L.
Repeatability: May be taken a total of 1 time.
Presents imaging equipment, technique formulation and factors as they are currently used in radiographic medical imaging. Proper image density, contrast, and resolution using film/screen and digital equipment, as well as maintenance of ongoing QA/QC procedures are emphasized.
Transfer Credit: Transfers to CSU.

RT 60L Applied Principles of Radiographic Imaging Lab
0.5 unit; 1.5 hours Laboratory
Prerequisite: RT 52
Co-requisite: RT 60.
Repeatability: May be taken a total of 1 time.
Applies theory of RT 60 in the laboratory setting to practically apply the effects of technique selection, collimation, distance, grid use, air gap technique and the use of film/screen, computed radiography, digital radiography, and darkroom procedures.
Transfer Credit: Transfers to CSU.

RT 61 Radiographic Positioning II
2 units; 2 hours Lecture
Prerequisite: RT 51.
Co-requisite: RT 61L.
Repeatability: May be taken a total of 1 time.
Teaches positioning principles, management of contrast media, related radiation protection, technical factors and nursing skills related to genitourinary, gastrointestinal tract, spine, ribs, sacrum, and coccyx. Both routine and non-routine projections are presented.
Transfer Credit: Transfers to CSU.

RT 61L Radiographic Positioning Lab II
1 unit; 3 hours Laboratory
Prerequisite: RT 51L.
Co-requisite: RT 61.
Repeatability: May be taken a total of 1 time.
Positioning procedures for both routine and optional examinations are presented, according to competency-based outcomes criteria related to RT 61 concurrent instruction.
Transfer Credit: Transfers to CSU.

RT 62 Principles of Radiation Protection
2 units; 2 hours Lecture
Prerequisite: RT 52.
Repeatability: May be taken a total of 1 time.
Teaches radiation protection for the patient/public and the technologist, and radiobiology with emphasis on radiation dose and biologic effects. Studies state and federal laws which govern and control the use of ionizing radiation and the manufacture and use of radiation equipment.
Transfer Credit: Transfers to CSU.

RT 63AL Advanced Positioning Lab/Clinic IV
8 units; 24 hours Laboratory
Prerequisite: RT 53CL.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Applies classroom and laboratory theory from previous didactic courses to clinical education under indirect/direct supervision, with participation in all facets of the radiologic technologist job performance.
Transfer Credit: Transfers to CSU.

RT 63BL Advanced Positioning Lab/Clinic V
8 units; 24 hours Laboratory
Prerequisite: RT 63AL.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Applies classroom and laboratory theory from previous didactic courses to clinical education under indirect/direct supervision, with participation in all aspects of radiologic imaging.
Transfer Credit: Transfers to CSU.

RT 70 Principles of Fluoroscopy
1 unit; 1 hour Lecture
Prerequisite: ARRT/CRT License or 2nd year Radiologic Technology Student.
Co-requisite: RT 70L.
Repeatability: May be taken a total of 1 time.
Provides an overview of the State of California Fluoroscopy regulations in preparation for the state certification exam.
Transfer Credit: Transfers to CSU.
RT 70L  Applied Principles of Fluoroscopy
0.5 unit; 1.5 hours Laboratory
Prerequisite: ARRT/CRT License or 2nd year Radiologic Technology Student.
Co-requisite: RT 70.
Recommended Preparation Eligibility for ENGL 100 or ESL 100 or READ 100.
Repeatability: May be taken a total of 1 time.
Teaches manipulation of mobile and stationary fluoroscopy equipment, QA/QC procedures, selection of parameters and accessories that are selected to minimize radiation dose and maximize image quality.
Transfer Credit: Transfers to CSU.

RT 71  Radiographic Positioning III
2 units; 2 hours Lecture
Prerequisite: RT 61.
Co-requisite: RT 71L.
Repeatability: May be taken a total of 1 time.
Teaches Part III of the radiographic positioning course sequence including the cranium, facial bones, paranasal sinuses, pediatric radiography, and legal aspects of elder and child abuse.
Transfer Credit: Transfers to CSU.

RT 71L  Positioning Laboratory III
1 unit; 3 hours Laboratory
Prerequisite: RT 61.
Co-requisite: RT 71.
Repeatability: May be taken a total of 1 time.
Applies Part III of the radiographic positioning course sequence, including the cranium, facial bones, mandible with joints and paranasal sinuses.
Transfer Credit: Transfers to CSU.

RT 72  Advanced Diagnostic Imaging Research
2 units; 2 hours Lecture
Prerequisite: Acceptance to the Cabrillo College Radiologic Technology Program.
Repeatability: May be taken a total of 1 time.
Introduces technically advanced imaging modalities including CT, MRI, mammography, bone densitometry, nuclear medicine, radiation therapy, and others in order to assist in the development of skills in formal research and presentation.
Transfer Credit: Transfers to CSU.

RT 73  Medical Imaging Pathology
1 unit; 1 hour Lecture
Prerequisite: RT 61.
Repeatability: May be taken a total of 1 time.
Surveys pathologies and etiological considerations with emphasis on radiographic appearance of disease and impact on exposure factor selection.
Transfer Credit: Transfers to CSU.

RT 82  Advanced Diagnostic Imaging
1 unit; 1 hour Lecture
Prerequisite: RT 72.
Repeatability: May be taken a total of 1 time.
Present advanced radiographic procedures to include advanced modalities of computerized tomography, angiography, ultrasonography, bone densitometry, and interventional radiography.
Transfer Credit: Transfers to CSU.

RT 83  Transition to the Professional Role
2 units; 2 hours Lecture
Prerequisite: Graduation from an accredited Radiation Technology Program or 2nd year Radiation Technology student.
Repeatability: May be taken a total of 1 time.
Provides a comprehensive review of patient care, radiographic procedures, radiation protection, image production and evaluation, equipment operation and maintenance and the State of California’s Health Code, Title XVII regarding fluoroscopic radiation laws, and application/resume preparation.
Transfer Credit: Transfers to CSU.

RT 175  Advanced Patient Care: Venipuncture for Radiographers
0.5 unit; 0.5 hour Lecture, 0.5 hour Laboratory
Prerequisite: RT 61 or ARRT or CRT license and CPR/Healthcare provider certification.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Basic instruction and practice of venipuncture methods/procedures for the administration of contrast agents. Routes of administration, safety, basic pharmacology, dosage calculations, and emergency procedures.
Transfer Credit: Non-transferable.

RT 184AZ  Special Topics in Radiologic Technology
1 – 3 units; 3 – 9 hours Laboratory
Prerequisite: Selection to the Radiologic Technology Program.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100; Eligibility for MATH 154.
Repeatability: May be taken a total of 1 time.
Special topics in the radiologic sciences. Topics may include lab and/or field work, learning lab or directed reading. Enrichment program in the radiologic sciences. Course is tailored to individual needs and interests as enrichment or expansion of subject area material. May be taken a total of four times for different topics.
Transfer Credit: Non-transferable.
RT 185  Principles of Mammography
2 units; 2 hours Lecture
Prerequisite: CRT or ARRT license or within one year of graduation from an accredited Radiologic Technology Program and CPR/Healthcare provider certification.
Co-requisite: RT 185L.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Studies the theory and practice of mammographic positioning, quality assurance/quality control, and imaging the anatomy and pathophysiology of the breast. Prepares the student in part for the state and national certification exams in mammography.
Transfer Credit: Non-transferable.

RT 185C Principles of Mammography Lab/Clinic
1 unit; 3 hours Laboratory
Prerequisite: CRT or ARRT license or 2nd year Radiologic Technology student and CPR/Healthcare provider certification.
Co-requisite: RT 185 and RT 185L.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Clinical application of classroom theory and laboratory skills (RT185 and RT185L) with use of Mammography patient and imaging protocols. Demonstration of competency in current mammographic practices to meet qualifications under the Mammography Quality Standards Act (MQSA Federal regulations) in conjunction with California state certification requirements.
Transfer Credit: Non-transferable.

RT 185L Principles of Mammography Lab
1 unit; 3 hours Laboratory
Prerequisite: CRT or ARRT license or within one year of graduation from an accredited Radiologic Technology Program and CPR/Healthcare provider certification.
Co-requisite: RT 185.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Provides the laboratory component to RT 185, to include: Breast positioning and imaging techniques, quality control/quality assurance, and operation of digital and analog mammographic equipment for both image acquisition and processing.
Transfer Credit: Non-transferable.

RT 189A Sectional Anatomy
1 unit; 1 hour Lecture
Prerequisite: BIO 4.
Co-requisite: RT 189AL.
Recommended Preparation: Eligibility for ENGL 100 or ESL 100 and READ 100.
Repeatability: May be taken a total of 1 time.
Teaches sectional human anatomy for health care professionals. Emphasis on transverse, coronal, and sagittal planes as related to sonography, computerized tomography and magnetic resonance imaging. May be offered in a Distance-Learning Format.
Transfer Credit: Non-transferable.

RT 189AL Sectional Anatomy Laboratory
0.5 unit; 1.5 hours Laboratory
Co-requisite: RT 189A.
Recommended Preparation Eligibility for ENGL 100 or ESL 100 or READ 100.
Repeatability: May be taken a total of 1 time.
Applied sectional human anatomy laboratory with practical application of the content and theories of RT 189A. Presents case studies utilizing various imaging modalities. May be offered in a Distance-Learning Format.
Transfer Credit: Non-transferable.