Radiologic Technology Program

Mt. San Antonio College
Health Careers Resource Center
http://www.mtsac.edu/radiologic/
Program Overview

The course of study in Radiologic Technology offered at Mt. SAC and its affiliated hospitals will prepare students to be competent and professional entry-level radiographers able to meet the needs of the healthcare community. Program courses are designed to prepare students with skills in patient care, positioning, operating x-ray equipment, image quality assessment, technical factors, and professionally interacting with the general public, ancillary workers, and physicians. Students will also learn the nature of radiation, the principles of electricity, the structure of x-ray machines, the operation of a clinical x-ray department, and much more.

Accreditation

Mt. San Antonio College is accredited by the Western Association of Schools and Colleges and the State Department of Education. The Radiologic Technology Program is recognized by the California Department of Public Health and is accredited by:

The Joint Review Committee on Education in Radiologic Technology (JRCERT)
20 North Wacker Drive, Suite 2850
Chicago, IL 60606-3182
312-704-5300

The program adheres to standards established by the JRCERT. Individuals interested in reviewing those standards and program compliance can visit: www.jrcert.org
MT. SAC APPLICATION PROCESS

Before applying to Radiologic Technology Program students must complete the following steps:

➢ **STEP 1 – Apply to Mt. SAC**

Complete and submit a [Mt. SAC Admission Application online](http://www.mtsac.edu/admission). Students transferring from other colleges must have their official transcript sent to Mt. SAC’s Admissions and Records Office.

➢ **STEP 2 – Orientation and Assessment**

- **Complete the New Student Orientation**
  For help with this step contact Counseling
  - [Online](http://www.mtsac.edu/counseling)
  - [By phone](909) 274-4380, or
  - [In person](At the Counseling Department (located in 9B, 2nd floor))

- **Complete the Assessment Questionnaire**
  For help with this step contact the Assessment Center
  - [Online](http://www.mtsac.edu/assessment)
  - [By phone](909) 274-4265, or
  - [In person](At the Assessment Center (located in bldg. 9B - Student Services Center – first floor))

- **Complete a Mountie Academic Plan Workshop**
  For help with this step contact Counseling
  - [Online](http://www.mtsac.edu/counseling)
  - [By phone](909) 274-4380, or
  - [In person](At the Counseling Department (located in 9B, 2nd floor))

➢ **STEP 3 – Meet with a Counselor**

Make an appointment with counseling
  - [Online](http://www.mtsac.edu/counseling)
  - [By phone](909) 274-4380, or
  - [In person](At the Counseling Department (located in bldg. 9B, 2nd floor))

Applicants must meet with a Counselor or an Advisor to review Associate in Science (or “AS”) degree requirements and complete an Admission Course Checklist for the Radiologic Technology Program.

- All of the following pre-requisite courses must be completed with a minimum grade of “C” in each course before admittance into the program (see counseling for more information):
  - ANAT 10A Introductory Human Anatomy or ANAT 35 Human Anatomy
  - ANAT 10B Introductory Human Physiology or ANAT 36 Human Physiology
  - PHYS 1 Physics
  - MEDI 90 Medical Terminology

Applicants must seek variances (or equivalencies) for courses completed at other institutions or repeat the course at Mt. SAC. The course of consideration must be an equivalent course to the course listed (or more advanced lower division course). Transcripts and course outlines/description must be reviewed by the Department Chair of the appropriate department for approval.
RADIOLOGIC TECHNOLOGY PROGRAM APPLICATION PROCESS

After completing the Mt. SAC application process, students may apply to the Radiologic Technology (RT) program by completing the following steps:

➢ STEP 1 – Apply to RT Program

- Complete and submit a Mt. SAC RT Program Application Online. All applications are dated upon receipt.
- Applicants must be a high school graduate or equivalent. Please provide copy of diploma with application as proof of high school completion.
- Applicant must possess a valid Social Security Card. This is a licensed profession, and a valid Social Security Number is required to obtain state certification and to complete the background check process.
- Upon receipt of the student’s application, a file will be started and will be added to the waitlist in the order of the application’s date.

➢ STEP 2 – Complete Required Courses

Refer to your Educational Plan (MAP) provided by your Counselor/Advisor in Step 3 of the Mt. SAC Application Process. These courses include:

- ANAT 10A Introductory Human Anatomy or ANAT 35 Human Anatomy
- ANAT 10B Introductory Human Physiology or ANAT 36 Human Physiology
- PHYS 1 Physics
- MEDI 90 Medical Terminology
- General Education Courses & Other Requirements

➢ STEP 3 – Respond to General Interest Letter by November 30

- Applicants on the waitlist will receive a letter in November of every year inquiring if the applicant is still interested in the program.
- Interested applicants shall respond as instructed and by the due date specified in the letter to be considered for admission to the program for the following summer intersession.
  - Failure to respond by the due date will result in the application being discarded and the applicant will need to reapply to the program.
- The letter will include instructions on how to delete an application for applicants who are no longer interested in the program and wish to be removed from the waitlist.
RADIOLOGIC TECHNOLOGY PROGRAM ADMISSION PROCESS

To gain admission to the Radiologic Technology (RT) program, all applicants must complete the following steps:

*STEP 1 – Complete RT Program/ Admission Course Checklist by February 1*

- Applicants must meet with a Mt. SAC Counselor or an Advisor to complete a Radiologic Technology Program / Admission Course Checklist by February 1. The Counselor/Advisor will verify completion of all Associate in Science (AS) degree requirements including general education and science prerequisites for the RT program.
- Applicants must complete the checklist on an annual basis unless all AS degree and program prerequisites have been verified on a previously completed checklist.
- Applicants who fail to complete the checklist by February 1 will not be considered for admission due to an incomplete file.
- To ensure completion of the checklist by the deadline, applicants should contact counseling for an appointment by December 15
  - Online: [http://www.mtsac.edu/counseling](http://www.mtsac.edu/counseling)
  - By phone: (909) 274-4380, or
  - In person: At the Counseling Department (located in bldg 9B, 2nd floor)

*STEP 2 – Selection*

- Selection of applicants is based upon the completion of admission requirements and the date of application. Only completed application packets including the checklist will be considered for admission.
- Applicant must be 18 years of age to be eligible for selection

*STEP 3 – Respond to Provisional Admission Letter*

- In early Spring, a provisional admission letter will be sent via mail to the selected applicants
- Applicants shall respond as instructed and by the due date specified in the letter with their “decision” to accept or decline admission. At this point, applicants accepting admission shall be provisionally admitted to the program beginning in the Summer intersession.
  - Applicants can defer admission up to two times. Applicants who do not accept admission after two deferrals will be removed from the waitlist and will need to reapply to the program.
- The provisional admission letter will include an invitation to a mandatory **RT Program Orientation** scheduled during the Spring Semester.

*STEP 4 – Admission*

- Once mandatory attendance to the RT Program Orientation is met, the applicant is eligible to move from “provisional” to “admitted” status.
- The applicant will receive a letter of formal admittance to the RT Program from the Health Careers Resource Center.
Radiologic Technology Program

Program Mission

The mission of the radiologic technology program is to prepare competent and professional entry-level radiographers able to meet the needs of the healthcare community.

Program Goals

1. Student/Graduate will be clinically competent.
2. Student/Graduate will communicate effectively.
3. Student/Graduate will develop critical thinking skills.
4. Student/Graduate will model professionalism.
5. Graduate will meet the employment demands of the medical community.

Program Effectiveness Data

- Percentage of students who complete the program within 150% of stated program length = 81%, 2018
- Percentage of graduates passing ARRT Certification Exam at first attempt within 6 months of graduation = 85%, 2014-2018 (5 year average)
- Percentage of graduates employed within 12 months of graduation = 98%, 2013-2017 (5 year average)

The JRCERT posts program effectiveness data (annual program completion rate, five-year average credentialing examination pass rate, & five-year average job placement rate) at www.jrcert.org.

Career Brief

Radiologic Technologists

- Use radiation to make images of internal parts of a patient’s body.
- Use radiation to provide treatment for disease. Review physician’s instructions.
- Prepare the patient for examination (physical assistance, verbal instructions, reassurance).
- Position the patient for imaging with the x-ray machine.
- May administer drugs necessary to make organs visible.
- Set/operate controls.
- May operate computerized head or body scanners.

Employment Outlook

Employment of Radiologic Technologists is projected to grow 13% from 2016 to 2026, faster than the average for all occupations. As the population grows and ages, there will be an increasing demand for diagnostic imaging. With age comes increased incidence of illness and injury, which often requires diagnostic imaging for diagnosis. In addition to diagnosis, diagnostic imaging is used to monitor the progress of disease treatment. With the increasing success of medical technologies in treating disease, diagnostic imaging will increasingly be needed to monitor progress of treatment.

Although hospitals will remain the principal employer of radiologic technologists, a number of new jobs will be found in offices of physicians and diagnostic imaging centers. As technology advances many imaging modalities are becoming less expensive and more feasible to have in a physician’s office.
Radiologic Technology Program

With additional training, opportunities exist in various modalities, such as magnetic resonance imaging (MRI), computerized tomography (CT), sonography, radiation therapy, and angiography, as well as medical sales, management, and education. Technologists with multiple certifications will have the best job prospects. (Bureau of Labor Statistics, Occupational Outlook 2018)
https://www.bls.gov/ooh/healthcare/radiologic-technologists.htm

**Pay**

Depends on employer, location, and shift On-call, after hours, overtime, increases pay
National hourly mean wage $29.00 (source Bureau of Labor Statistics 2018)
California mean full-time income – $81,276 (source ASRT Wage and Salary Survey 2016)

**Preparation Required**

This is a licensed occupation. Completion of the 2-year, full-time A.S. degree program at Mt. SAC is required to qualify students to take the state licensing exam and national registry exam.

**Typical Employers**

Hospitals
Outpatient Clinics
Imaging Centers
Federal, state, and local government health agencies

**Characteristics Required**

- Effective English communication skills (speaking, reading, and writing)
- Must have physical stamina to be standing for long periods and lift/assist disabled patients.
- Able to catch on quickly.
- Work quickly and accurately with hands.
- Visualize three-dimensional objects and their relationships in space (such as organs in the body).
- See important details in radiographic images.
- Careful/cautious with details.
- Ability to perform complex imaging procedures using technologically advanced equipment.

**Other Resources**

American Society of Radiologic Technology
15000 Central Ave. SE
Albuquerque, NM 87123

California Society of Radiologic Technology
PO Box 14502
Torrance, CA 90503

American Registry of Radiologic Technology
1255 Northland Drive
St. Paul, MN 55120-1165
Cost

There is an enrollment fee of forty-six dollars ($46) per unit* plus material fees, health service fees, college service fees, and parking fees. Nonresident students are also required to pay nonresident tuition fees. Please consult the current college catalog for further information. The expense of enrollment, annual physical examinations, parking, uniforms, textbooks and related expenses, (i.e. transportation to school and to and from the clinical facilities) are to be arranged by the student. Scholarships and loan funds are available; please contact Mt. SAC’s Financial Aid Office for further information.

<table>
<thead>
<tr>
<th>Student Expenses*</th>
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<tbody>
<tr>
<td>Enrollment Fees</td>
<td>$46 per unit</td>
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<td>Activities Fee</td>
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<td>Representation Fee</td>
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<td>Parking Fee</td>
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<tr>
<td>Background Check</td>
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<td>Drug Screening</td>
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<td>Film Markers</td>
<td>Approx. $12 each</td>
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<td>Uniforms</td>
<td>Approx. $20 to $40 each</td>
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<td>Physical examination</td>
<td>Approx. $115 for first year; $50 following semesters</td>
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<td>Textbooks</td>
<td>Approx. $400 for first semester; $160 following semesters</td>
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<tr>
<td>Licensing Fees</td>
<td>Approx. $500</td>
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<td>CPR course</td>
<td>$65 (renewal $45)</td>
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<td>Transportation</td>
<td>Must have own transportation</td>
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<tr>
<td>Meals</td>
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</table>

* Tuition and fees are subject to change each year

Clinical Requirements

Physical Examinations

A physical examination must be submitted to the Health Careers Resource Center by the beginning of the first fall semester and yearly thereafter. Physical examination forms are provided upon acceptance and are also available in the Health Careers Resource Center, Building 67B, Room 250.

CPR – Health Care Provider Card

Students must have a current CPR. CPR card required for the program:

- American Heart Association: BLS Provider, valid 2 years

Background Check Policy

The use of background checks on individuals working in clinical settings is one of the mechanisms that agencies use to help protect their clients/patients. This policy is a requirement of the program’s clinical affiliates and the Joint Commission Standard (HR.1.20). The standard states students and volunteers who work in the same capacity as staff who provide care, treatment, and services, would be expected to have criminal background checks verified when required by law, regulation, and/or organization policy.
Therefore, all students will be required to complete a background check prior to participating in the clinical education portion of the program. The background check must be completed through a program approved company. Students will be given information on how to complete the background check process upon acceptance into the program. The student is responsible for the cost of the background check. Additional background checks may be requested by clinical affiliates prior to clinical placement in that specific clinical site. The cost associated with additional background checks will be covered by the clinical affiliate.

Background check results will be accessible and reviewed by the Clinical Coordinator, Program Director, and the program’s clinical affiliate prior to clinical training. Upon review, if a student’s background check summary is deemed unacceptable by a clinical affiliate, the student may not be able to continue in the program due to the inability of the student to participate in the program’s clinical component. The program is not obligated to pursue placement for the student at an alternate clinical affiliate. If a substitute facility is secured, the affiliate will be informed of the student’s prior denial from the initial clinical affiliate.

Students do have an avenue of recourse should they “fail” the background check. Mistakes can be made and, as with any other threat to a student’s right to maintain, enrollment, a means of due process is available.

Students who leave the program in good standing will be readmitted subject to space availability. Students must complete another background check (in addition to other program requirements) to be considered for re-entry. Full details for all program readmission requirements are included in the program’s Readmission Policy.

All students must ensure that the background check is provided to the clinical affiliate a minimum of two (2) weeks prior to the beginning of the semester/intersession.

**Catalog Statement**
All students will be required to pass a criminal background check prior to entering the clinical education phase (a valid Social Security number is required to complete this process).

**ARRT Ethics Review Pre-Application**
Any applicant with a criminal or disciplinary history should complete the Ethics Review Pre-Application offered by the American Registry of Radiologic Technologists (ARRT) for $100 (price subject to change) before applying to the program or anytime as needed. The Ethics Review Pre-Application is the process for an early ethics review of offenses that would otherwise need to be reported on your Application for Certification after completion of the program. More information on this process may be found at: www.arrt.org, click on the Educators and Students tab, then click on the Ethics Review Pre-Application link. The program strongly recommends that students self-report criminal or disciplinary history prior to program admission or anytime as needed and complete the ARRT’s pre-application. This process can help avoid delays or denial in clinical placement, and denial of licensure.

**Social Security Number**
All students are required to have a valid social security number to obtain state certification and to complete the background check process.
Drug Screening

All students must pass a drug test prior to participating in clinical courses and annually thereafter. Students may be subject to additional drug tests while enrolled in the program. The additional drug tests are required for participation in clinical training at various clinical sites. Drug testing is offered at the Student Health Center at Mt. SAC. Students will be given instruction on procedures upon acceptance and are responsible for the cost of the drug test.

College Assistance
Student Support Services

The college provides Student Support Services and Programs to students in support of student learning. Students and the public can access the services through the Student Support Services Website or by visiting the appropriate student service building on campus. A Student Services Phone Directory & Locations is available online.

Student Support Services at Mt. SAC helps students learn about financial aid opportunities, and various counseling, assessment, and assistance programs, including disabled student services. The Student Support Services Website includes more than 20 departments specifically aimed at helping students succeed in college.

Financial Aid

Students who need financial aid may contact the Financial Aid Office at (909) 274-4450.

Learning Assistance

Students who need learning assistance may contact the Learning Assistance Center at (909) 274-4300 or (909) 274-5666. Additional courses that may assist students in developing more effective study skills include COUN 2, STDY 80 and STDY 85A.

English as a Second Language (ESL)

Students must be able to clearly speak and understand English prior to being accepted into the Radiologic Technology Program. For assistance, please contact the ESL Office at (909) 274-4736.

Students with Disabilities

Persons with disabilities who require special accommodations are requested to call Mt. SAC’s Disabled Student Programs & Services at (909) 274-4290 for assistance.

Additional Information

Vacation Periods

Students will have break periods between all semesters and intersessions. No other vacation periods are scheduled.
Outside Work

Outside work is not recommended due to the long hours required. Work schedules must not adversely affect the student’s ability to meet posted class schedules, nor should the extent of the working hours interfere with the student’s release time, thereby jeopardizing his/her successful academic completion of the individual courses.

Students may only perform duties as student radiographers during regularly assigned clinical course hours. Students may never be used in lieu of staff radiographers or outside of regularly scheduled class times.

Students shall be informed that working in a Diagnostic Imaging Services Department and utilizing ionizing radiation on humans without State Certification is a violation of the California Radiation Control Regulations, Title 17, and punishable as a misdemeanor. Students may hold positions in the radiology department such as transporters or clerical workers without jeopardizing their student status.

Transportation

Each student is responsible for providing his/her own transportation to school and to clinical facilities.

Curriculum/A.S. Degree Requirements

Mt. SAC offers a curriculum in Radiologic Technology designed to meet the JRCERT accreditation requirements and the Didactic/Clinical Competency Requirements for certification set forth by the ARRT. The ARRT requirements are available for review on the ARRT website.

The program is affiliated with local clinical facilities. See Appendix II for a complete list of clinical affiliates. In the event that a clinical education facility terminates the affiliation agreement, the student will be reassigned by the faculty to another clinical education facility without delay or disruption of the educational process.

Mt. SAC offers a curriculum in Medical Radiologic Technology. The curriculum is 26 months in length. Classes are held on campus in a state-of-the-art laboratory classroom and various affiliated clinical settings.

To remain in the program, students must maintain a “C” or better grade and/or “P” (passing) in all courses.

In addition to the required Radiologic Technology Program courses the student must complete the general education courses required for completion of the Associate in Science (AS) Degree. AS Degree requirements are listed in the current Mt. SAC catalog.

Upon satisfactory completion of the AS Degree in Radiologic Technology, the graduate is eligible to apply for the registry examination through the ARRT and the State of California. Also, graduates may transfer to a state college or university offering a baccalaureate program in Radiologic Technology.
Required Skills & Physical Abilities

In order to ensure student and patient safety and welfare, the radiologic technology student must have sufficient strength, motor coordination, manual dexterity, intellectual capacity, and sensory functions to be able to:

➢ Transport, move, lift, or transfer patients from a wheelchair or gurney to an x-ray table or to a patient bed.

➢ Lift arms above the head to move the x-ray tube assembly.

➢ Move, adjust, and manipulate portable and fluoroscopic equipment according to established procedures and standards of speed and accuracy while conducting radiographic examinations.

➢ Maneuver well enough to physically protect himself or herself from injury caused by patients exhibiting aggressive behaviors.

➢ Physically place patients in the proper positions for the examination according to established procedures and standards of speed and accuracy.

➢ Rapidly respond to situations involving the health and safety of patients, providing physical and emotional support to the patient during radiographic procedures, providing basic first aid and emergency care in the absence of or until a physician arrives.

➢ Function adequately under stressful situations related to technical and procedural standards of patient care situations.

➢ Hear well enough to respond to directions or calls for help from individuals remote from the location of the student.

➢ Speak and write English well enough to explain and direct procedural information to patients, to accurately complete required documentation, and to communicate with physicians, technical staff, and faculty.
## Radiologic Technology Program

### Curriculum Sequence & Schedule (26 months total)

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<tr>
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<th>Course</th>
<th>Units</th>
<th>Hours</th>
<th>Professor</th>
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<tr>
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<td>ANAT10A Introductory Human Anatomy</td>
<td>4</td>
<td>Variable</td>
<td>Variable</td>
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<tr>
<td></td>
<td>ANAT10B Introductory Human Physiology</td>
<td>4</td>
<td>Variable</td>
<td>Variable</td>
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<td></td>
<td>MEDI90 Medical Terminology</td>
<td>3</td>
<td>Variable</td>
<td>Variable</td>
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<td>PHYS1 Physics</td>
<td>4</td>
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<td>1/Summer</td>
<td>RAD91 Patient Care in Radiologic Sciences</td>
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<td>RAD50 Introduction to Radiologic Science and Healthcare</td>
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<td>T/Th 7:00am-11:15am</td>
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<td>1/Fall</td>
<td>RAD61A Theory of Radiologic Technology</td>
<td>4</td>
<td>T/Th 9:55am-12:00pm</td>
<td>Engisch</td>
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<td></td>
<td>RAD61B Radiographic Procedures I</td>
<td>3</td>
<td>M/W 10:30am-11:55</td>
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<td></td>
<td>RAD61C Radiographic Procedures I Laboratory</td>
<td>1.5</td>
<td>M or W 7:50am-10:25am or 12:00pm-2:35pm</td>
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<td>RAD1A Clinical Experience 1A</td>
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<td>T/Th 1:00pm-5:00pm &amp; F 8:00am-4:30pm</td>
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<td>RAD1B Clinical Experience 1B</td>
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<td>RAD62B Radiographic Procedures II</td>
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<td>RAD62C Radiographic Procedures II Laboratory</td>
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<td>M or W 7:50am-10:25am or 12:00pm-2:35pm</td>
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<td>RAD2B Clinical Experience 2B</td>
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<td>RAD63 Theory of Radiologic Technology</td>
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<td>T (8weeks) 1:00pm-3:05pm</td>
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<td>RAD3B Clinical Experience 3B</td>
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<td>M-F 12:30pm-5:30pm</td>
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<td>RAD32 Digital Imaging in Radiology</td>
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<td>RAD31 Fluoroscopy and Radiobiology</td>
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*Subject to Change*

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