

Department of Radiology

Website: <https://www.mir.wustl.edu>

Courses

For more information, contact Michelle Miller-Thomas, MD, Coordinator of Radiology Medical Student Education, at miller-thomasm@wustl.edu or 314-362-5949.

Visit online course listings to view offerings for M90 Radiol (https://courses.wustl.edu/CourseInfo.aspx?sch=M&dept=M90).

M90 Radiol 701 General Radiology Clerkship

This two-week introductory radiology elective allows students to rotate through two of the following radiology services: Emergency Radiology, Mammography, Pediatrics, Chest, Abdominal Imaging, Musculoskeletal, Neuroradiology, Interventional Radiology, and Nuclear Medicine. The primary course objective is to familiarize students with the scope of diagnostic and interventional radiology, including the consulting role that radiologists provide to primary care and specialty providers; the risks, benefits, and cost-effectiveness of radiologic examinations; the guidelines for ordering common studies; and specific disease entities and their radiologic appearance and workup. Students spend the majority of the day in the radiology reading rooms with residents, fellows, and faculty for interactive teaching based on daily clinical cases. Students will attend morning case-based conferences and noon didactic conferences with the residents. The students will have an observational role in conferences and in the clinical setting. Students have allocated lectures to watch as part of the didactic component of this course. On Thursday afternoons, students will convene with a radiology resident for an interactive Q&A session related to the aforementioned didactic lectures. On Friday afternoons, students will present an interesting case from the week in PowerPoint format. Two of these PowerPoint presentations will be submitted at the end of the rotation for grading. Reading lists, references, and textbooks will be provided. The first and final days of the elective are mandatory. Grades will be based on daily attendance, workshop participation, and submitted PowerPoint presentations. More than three days' absence will require exceptional work for honors. No honors will be awarded if a student is absent for more than five days of the rotation. Credit variable, maximum 77 units.

M90 Radiol 740 Radiation Oncology Clerkship

The four-week clerkship in Radiation Oncology will provide students with the opportunity to participate in the evaluation and management of a broad range of patients referred for consideration of radiation therapy. Clerkship activities will take place at the Barnes-Jewish Hospital/Siteman Cancer Center complex and at our satellite facilities. Students will conduct patient evaluations under the supervision of radiation oncology department residents and faculty. Students will attend many conferences throughout the weeks, with the work day starting between 7:00 a.m. and 7:30 a.m. Students will also have the opportunity to attend the appropriate multidisciplinary

clinics, follow-up clinics and multidisciplinary conferences (e.g., pediatric neuro-oncology, cardiothoracic oncology, lymphoma, GYN tumor) pertaining to their rotation schedule. Instructional materials are available for students on the rotation. (Students are not expected to purchase any curricular materials for the clerkship.) Student performance will be evaluated by both resident and faculty members who supervise the student over the course of the clerkship. Credit 154 units.

M90 Radiol 801 General Radiology

This four-week introductory radiology elective -- with a hybrid, predominantly in-person format -- allows students to rotate through four of the following radiology services: Pediatrics, Abdominal Imaging, Musculoskeletal, Neuroradiology, Nuclear Medicine, Emergency Radiology, Mammography, Chest, and Interventional Radiology. Preferences should be emailed at least two weeks prior to the course start date to andrewdr@wustl.edu; these are reviewed on a first-come, first-served basis and cannot be guaranteed. The primary course objective is to familiarize students with the scope of diagnostic and interventional radiology, including the consulting role that radiologists provide to primary care and specialty providers; the risks, benefits, and cost-effectiveness of radiologic examinations; the guidelines for ordering common studies; and specific disease entities and their radiologic appearance and workup. Students spend the majority of the day in the radiology reading rooms with residents, fellows, and faculty for interactive teaching based on daily clinical cases. Students will attend morning case-based conferences and noon didactic conferences with the residents. The students will have an observational role in conferences and in the clinical setting. On Thursday afternoons, students will attend virtual or in-person conferences with a radiology resident for an interactive workshop on a scheduled topic in radiology. On the days prior to these workshops, students are expected to watch specified lectures from the course material available online (on WUSTL Box). Students will be evaluated on their preparedness for and participation in the afternoon workshops. On Friday afternoons, students will present an interesting case from the week in PowerPoint format. Four of these PowerPoint presentations will be submitted at the end of the rotation for grading. Reading lists, references, and textbooks will be provided. The first day of the elective is mandatory. Grades will be based on daily attendance and interactions, workshop participation, and the PowerPoint presentations. More than three days' absence will require exceptional work for honors. No honors will be awarded if a student is absent for more than five days of the rotation.

M90 Radiol 802 Advanced Radiology

This course is available only to students who have completed the General Radiology Clerkship Selective (M90 701) or the General Radiology Elective (M90 801). This four-week sub-internship in radiology is intended for students who are interested in pursuing radiology as their intended career choice. Students may tailor their experience to focus on one or more services, if desired; this will be considered on a case-by-case basis by the course directors. This elective -- with a hybrid, predominantly in-person format -- allows students to rotate through one or more of the following radiology services: Pediatrics, Abdominal Imaging, Musculoskeletal, Neuroradiology, Nuclear Medicine, Emergency Radiology, Mammography, Chest, and Interventional Radiology. Preferences should be emailed at least two weeks prior to the course start date to andrewdr@wustl.edu; these are reviewed on a first-come, first-served basis and cannot be guaranteed. The objective of this course is for students to have a more hands-on role in the reading room; they will help to investigate the

patient's clinical history and the indications for the examination, preview the imaging studies, and communicate with referring teams and providers. Students spend the majority of the day in the radiology reading rooms with residents, fellows, and faculty for interactive teaching based on daily clinical cases. Students will attend morning case-based conferences and noon didactic conferences with the residents. The students will have an observational role in conferences and in the clinical setting. On Thursday afternoons, students will have the option to attend virtual or in-person conferences with a radiology resident for an interactive workshop on a scheduled topic in radiology. On Friday afternoons, students will present an interesting case from the week in PowerPoint format. Four of these PowerPoint presentations will be submitted at the end of the rotation for grading. Reading lists, references, and textbooks will be provided. The first day of the elective is mandatory. Grades will be based on daily attendance and interactions as well as the PowerPoint presentations. More than three days' absence will require exceptional work for honors. No honors will be awarded if a student is absent for more than five days of the rotation.

M90 Radiol 820 Clinical Nuclear Medicine

The clinical service in Nuclear Medicine (NM) is divided into five sections: outpatient general NM, inpatient general NM, Positron Emission Tomography (PET), Pediatric NM studies, NM Cardiac studies, and radionuclide therapy. The recommended schedule will be to spend weeks 1 and 3 in the Center for Advanced Medicine/BJH North Campus (second floor), where the emphasis will be on outpatient general and pediatric Nuclear Medicine with some time spent in the PET reading room. Week 2 will be in South Campus (West Pavilion 9th floor) and split between inpatient general nuclear medicine, outside PET facilities (morning), cardiac NM services (afternoon), and radionuclide therapy. The schedule for Week 4 will be Monday to Wednesday Center for Advanced Medicine/BJH North Campus and Thursday to Friday in South Campus. This rotation's primary objective is to provide exposure to the full range of clinical nuclear medicine studies. Under the direct supervision of the NM attendings, the student via ZOOM will participate in the planning and interpreting of imaging studies for patients referred to the Division. An opportunity also exists to explore instrumentation techniques, including dedicated computer applications utilized to interpret NM studies. In addition to the clinical experience, the student will attend the NM daily morning conference, held via ZOOM, from 8-9:00 a.m. Also, the student will be excused to attend via ZOOM the daily diagnostic radiology resident noon conference from 12-1:00 p.m. The student will also be able to attend any conferences within the Department of Radiology and case management conferences where NM studies are discussed. The student has to participate by preparing a case for the Friday follow-up conference under an NM faculty member's supervision during the last week of their rotation. The student can find the PowerPoint template to use and examples of prior follow-up cases using the below link; M:\Services\Nuclear Medicine\Nuclear Medicine Follow-Up Conferences Students may keep a log of interesting cases to use as a guide for additional reading or discussions with the Course Director or other NM attendings. Educational material including textbooks and digital teaching file cases are available at the following url: <http://gamma.wustl.edu/index2.html> The first and final days of the elective are mandatory. No honors will be awarded if a student is absent for more than five days of the rotation. Please introduce yourself to Dr. Ponisio, Nuclear Medicine residency program director, and Ms. Bre Vittitow, Nuclear Medicine program coordinator, on the first day of your 4-week NM rotation.

M90 Radiol 830 Interventional Radiology

This elective is designed to give students in-depth exposure to and experience in all clinical and procedural aspects of interventional radiology including: patient evaluation and consultation, preparation of patients for procedures, performance of a wide range of vascular and non-vascular procedures, post-procedure patient management, and longitudinal patient follow-up. Students will actively participate in interventional procedures. Students will attend the departmental noon conference (daily) and morning section conferences including didactic lectures, Quality and Safety conference, Journal club, Interventional oncology conference, multidisciplinary liver tumor conference, and case conferences.

M90 Radiol 840 Clinical Radiation Oncology Subinternship

The clinical division offers an elective with emphasis on the evaluation, planning, and administration of radiation therapy in patients with malignant tumors. The students have the opportunity to enhance their knowledge of the natural history and of the pathological and biological features of cancer and to sharpen their clinical skills by participating in the management of these patients.

M90 Radiol 842 Thoracic Imaging

A four-week elective emphasizing the interactions between cardiothoracic radiologists and the various clinical services, to include thoracic surgery, thoracic oncology, and pulmonary medicine. Learn to read chest radiographs at the viewing console while providing liaison with the clinical teams. This active elective will include the daily chest teaching conference and participation in weekly pulmonary case conference, thoracic surgery, thoracic oncology conferences, as well as the imaging aspects of the clinico-pathological medicine conference. Learn to identify subtle pneumothorax and pneumonia. Learn the limitations of portable chest radiographs. Rotating on cardiac CT and MR service and in the ED service, if interested. The student will be expected to present a single case from what they have seen during the rotation at a 7AM teaching conference.

M90 Radiol 900 Research Elective: Radiology

Research opportunities may be available. If interested, please contact the Departments of Radiology or Radiation Oncology.
