

Radiology (RADIOL)

RADIOL 4328: Introductory Radiation Biology

(same as BIO_SC 4328, NU_ENG 4328; cross-leveled with V_M_S 7328, BIO_SC 7328, NU_ENG 7328, RADIOL 7328). Concepts of ionizing radiations, their actions on matter through effects on simple chemical systems, biological molecules, cell, organisms, man.

Credit Hours: 3**Prerequisites:** junior standing Sciences/Engineering; one course in Biological Sciences and Physics/Chemistry; or instructor's consent

RADIOL 6044: SCC Radiation Oncology Elective

Students will enhance their knowledge, skills, and attitudes about patient-centered care through active participation in direct patient care activities while under the supervision of a faculty preceptor. Students will integrate previously acquired knowledge and concepts and apply them to the care and management of patients. During the elective, students will be expected to work-up patients, perform physical exams, and present cases to faculty. Students will also be exposed to treatment planning, simulations, and treatment deliveries throughout the rotation. At the end of the elective, students will be expected to give a 10-minute presentation on a topic of their choosing.

Credit Hours: 5**Prerequisites:** Successful completion of the first two years of medical school

RADIOL 6373: ABS Radiology Research

ABS Radiology Research

Credit Hour: 5-10

RADIOL 6645: Radiology

Goals/Objectives: General survey of all subspecialties of radiology.

Evaluations: Written evaluations performed by both faculty and residents.

Credit Hours: 5

RADIOL 6646: SCC Radiology Elective

Students on this elective rotate through the various areas of radiology, spending time in each of the following subspecialties: musculoskeletal, ultrasound/mammography, chest/body imaging, neuroradiology (CT/MRI), pediatric imaging, and/or Interventional Radiology. Students participate in workstation rounds. Information is presented using a variety of evidence-based resources and online modules, including case conferences, daily mini-lectures, and case review websites.

Credit Hours: 5**Prerequisites:** Successful completion of the first two years of medical school; faculty approval

RADIOL 6650: Advanced Radiology

Advanced Radiology

Credit Hours: 5

RADIOL 6651: Interventional Radiology Elective 4WK

Vascular/Interventional Radiology is a 4-week elective experience for 3rd or 4th year medical students as a clinical rotation. Vascular/Interventional Radiology is a clinical subspecialty of the Department of Radiology, focused on minimally invasive, image guided procedures. The goal of this rotation is to familiarize students with the breadth of services which the VIR service provides within the department of radiology and hospital wide, with an opportunity to actively participate hands on with image guided procedures (CT, US, and fluoroscopy) alongside attending radiologists and fellows within the department of Interventional Radiology. This course does not include experience with Neurologic Intervention or the faculty performing those services. Vascular/Interventional Radiology is a clinically based service, utilizing imaging guidance to perform minimally invasive procedures. The catheter-based therapies of many medical specialties today originated in the hands of Interventional Radiology providers, and our goal is to offer a basic introduction to the broad spectrum of minimally invasive procedures available to our patients across multiple organ systems. Examples of procedures commonly performed include basic percutaneous biopsy, abscess/fluid collection drainage, central line management, as well as opportunities to participate in more complex procedures within the department to include vascular interventions (angioplasty and stent placement), biliary and genitourinary interventions, oncologic therapy as well as musculoskeletal procedures such as vertebral augmentation.

Credit Hours: 5

RADIOL 6745: Radiology - Rural

Radiology - Rural

Credit Hours: 5

RADIOL 6931: Introduction to Radiology

This two week elective will provide students with exposure to chest and body imaging (1 week per area). They will participate in 2-3 didactic sessions focused on the basics of radiology and imaging that is important to all fields of medicine, as well as video lectures one day a week along with the upperclassmen that are doing their 4 week elective at that time. Videos present a case based learning plan involving common emergent situations that may be encountered during their clinical training.

Credit Hours: 2**Prerequisites:** successful completion of the first two years of medical school

RADIOL 6952: SCC Radiation Oncology 2 week elective

This course is intended as an introductory experience in the field of Radiation Oncology. Students will enhance their knowledge, skills, and attitudes about patient-centered care through active participation in direct patient care activities while under the supervision of a faculty preceptor. Students will integrate previously acquired knowledge and concepts and apply them to the care and management of patients. During the clerkship, students will be expected to work-up patients, perform physical exams, and present cases to faculty. Students will also be exposed to treatment planning, simulations, and treatment deliveries throughout the rotation.

Credit Hours: 2**Prerequisites:** Successful completion of the first two years of medical school

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Credit Hours: 2**RADIOL 6961: Radiation Oncology-2-Week Elective**

This will be an introduction of radiation oncology including the basics of radiation physics, radiation biology, and treatment planning. Each student will be asked to attend multidisciplinary tumor conference. They will participate in evaluation and management of patients with cancer. This will include seeing consults, participating in treatment planning, seeing patients who are on treatment, and follow-up of patients. Special procedures include radiation oncology three-dimensional treatment planning, INRT, stereotactic radiosurgery and stereotactic body radiation therapy, and brachytherapy.

Credit Hours: 2**Prerequisites:** Successful completion of the first two years of medical school**RADIOL 6962: SCC Introduction to Radiology**

This two week elective will provide students with exposure to Chest, Body Imaging, Neuroradiology and Pediatric Imaging. Information is presented in a variety of evidence-based resources and online modules, including daily discussion and case review.

Credit Hours: 2**Prerequisites:** Successful completion of the first two years of medical school**RADIOL 6988: Interventional Radiology Elective 2 WK**

Vascular/interventional radiology two-week elective experience for third- or fourth-year medical students as a clinical elective rotation. Vascular/interventional radiology is a clinical subspecialty of the Department of Radiology, focused on minimally invasive, image-guided procedures. The goal of this rotation is to introduce students to the breadth of services that the VIR service provides within the Department of Radiology and hospital wide, with an opportunity to participate hands on with image-guided procedures (CT, US, and fluoroscopy) alongside attending radiologists and fellows within the Department of Interventional Radiology. This course does not include experience with neurologic intervention or the faculty performing those services. Vascular/interventional radiology is a clinically-based service, using imaging guidance to perform minimally invasive procedures. The catheter-based therapies of many medical specialties today originated in the hands of interventional radiology