RADIOLOGY (RADIOLOGY)

RADIOLOGY 130.01 CIEx - Interventional Radiology - UCSF Parnassus (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Evan D Lehrman
Prerequisite(s): None

Restrictions: Medical Students in Foundations 2
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This is a Bridges Curriculum Clinical Immersive Experience (CIEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will learn unique and innovative treatment options available to patients in Interventional Radiology. Students will participate in morning rounds, inpatient consult service, outpatient clinic service, the angio suite, and conferences.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

RADIOLOGY 130.02 CIEx - Interventional Radiology - VAMC-SF (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Rajiv Sawhney
Prerequisite(s): None

Restrictions: Medical Students in Foundations 2
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This is a Bridges Curriculum Clinical Immersive Experience (CIEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. This course will provide students with subspecialty experience in interventional radiology, including opportunities to recognize common diagnoses in interventional radiology practice, observe common procedures, and compose treatment plans.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

RADIOLOGY 130.03 CIEx - Interventional Radiology Immersion - ZSFG (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Vishal Kumar
Prerequisite(s): None

Restrictions: Medical Students in Foundations 2
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This is a Bridges Curriculum Clinical Immersive Experience (CIEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will learn unique and innovative treatment options available to patients in Interventional Radiology. Students will participate in morning rounds, inpatient consult service, outpatient clinic service, the angio suite, and conferences.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

RADIOLOGY 130.04 CIEx - Apprenticeship Experience in Radiology (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Emily M Webb
Prerequisite(s): Permission of Course Director

Restrictions: This course is only open to third year UCSF students considering Radiology as a career and hoping to gain some clinical exposure before fourth year.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This course gives an overview of the practice of radiology intended for third year students considering it as a career. It provides an introduction to the reading room and procedure rooms across an array of radiology subspecialties: thoracic, abdominal, pediatric radiology, neuroradiology, musculoskeletal, women's imaging, nuclear medicine, ultrasound, and interventional. (For guidance on which Radiology course(s) to take: http://www.radiology.ucsf.edu/education/medical-students/application).

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
RADIOLOGY 140.02 Off-Campus Clerkship (3-6 Units) Fall, Winter, Spring, Summer
Instructor(s): Emily M Webb
Prerequisite(s): Medicine 131A-B-C

Restrictions: None

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Clinical clerkship in approved hospital by special arrangement and approval of the chairperson of the department and the dean.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

RADIOLOGY 140.03 Diagnostic Radiology (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Emily M Webb, Priyanka Jha
Prerequisite(s): MEDICINE 110, SURGERY 110

Restrictions: 4th year students only

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

Didactic clerkship in radiology for fourth-year students. Students who have completed the radiology clerkship successfully can be expected to have elementary knowledge of: normal radiologic anatomy, radiologic appearances of common diseases, and an understanding of the rationale for ordering specific radiological in defined clinical situations. (For guidance on which Radiology course(s) to take: http://www.radiology.ucsf.edu/education/medical-students/application).

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

RADIOLOGY 140.13A Clinical Radiology - Fresno (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Malcolm F. Anderson
Prerequisite(s): 4th year standing

Restrictions: n/a

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

This clerkship is designed to acquaint students with the use and indications of techniques in CT, MRI, ultrasound, as well as conventional radiological examination and fluoroscopy and their clinical use. This clerkship also provides an introduction to basic interpretation a primary care physician might need.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? No
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
Repeat course for credit? Yes

RADIOLOGY 140.15 Introduction to Interventional Radiology (6 Units) Fall, Winter, Spring, Summer
Instructor(s): Miles B. Conrad, Mark W Wilson, Evan D Lehrman, Vishal Kumar
Prerequisite(s): Completion of first 2 years of medical school.

Restrictions: None

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Students will be introduced to the field of interventional radiology. This will include simulation of core ultrasound guided procedures (paracentesis, thoracentesis, venous access), and hands on patient procedures. He or she will spend 4 weeks working alongside the IR service resident, NP, and attending to diagnose, treat, and care for patients with a variety of conditions in the oncology, trauma, critical care and hospital setting. A subfocus will be on neurointerventional interventions.

School: Medicine
Department: Radiology And Biomedical Imaging
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: No
Is this a web-based online course? No
Is this an Interprofessional Education (IPE) course? No
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No
**RADIOLOGY 140.18 Interventional Radiology: VAMC (6 Units) Fall, Winter, Spring, Summer**  
*Instructor(s): Rajiv Sawhney*  
Prerequisite(s): Consent of instructor.

Restrictions: None

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

Participate on the interventional radiology team at the VA including: pre-procedure work-up, post-procedure monitoring, and scrub in on all cases. Procedures include diagnostic angiography, angioplasty/ stent, embolization, thrombolysis, CT/ultrasound guided abscess drainage, chest tubes, biliary drainage, nephrostomy, percutaneous cholecystostomy, TIPS, central venous access, etc.

School: Medicine  
Department: Radiology And Biomedical Imaging

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)

Graduate Division course: No  
Is this a web-based online course? Yes  
Is this an Interprofessional Education (IPE) course? Yes  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

**RADIOLOGY 140.19 Advanced Clinical Clerkship in Radiology (3-6 Units) Fall, Winter, Spring, Summer**  
*Instructor(s): Emily M Webb, Priyanka Jha*  
Prerequisite(s): Consent of Course Director

Restrictions: Open to UCSF and U.S. students Medical students only

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

Students observe the practice of radiology in the reading room with an emphasis on image interpretation, observing procedures, and viewing teaching files. May choose a specific subspecialty area of academic interest including: Abdominal, Cardiac & Pulmonary, Interventional, Musculoskeletal, Neuroradiology, Nuclear Medicine, Pediatrics, Ultrasound, or Women’s Imaging. (For guidance on which Radiology course(s) to take: http://www.radiology.ucsf.edu/education/medical-students/application).

School: Medicine  
Department: Radiology And Biomedical Imaging

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)

Graduate Division course: No  
Is this a web-based online course? Yes  
Is this an Interprofessional Education (IPE) course? Yes  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

**RADIOLOGY 140.22 Interventional Radiology - UCSF Parnassus (6 Units) Fall, Winter, Spring, Summer**  
*Instructor(s): Evan D Lehrman*  
Prerequisite(s): Completion of first two years of medical school.

Restrictions: None

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

Students will have the opportunity to review the indications for Interventional Radiology procedures; perform patient histories and physical exams; discuss new and current patients with the IR team; scrub and assist the IR service resident, fellow, and attending; and have opportunity for pre- and post-procedural outpatient care in IR clinic. Students will follow patients with vascular, oncologic, hepatobiliary, gastrointestinal, gynecologic, and urologic conditions in ICU and hospital settings.

School: Medicine  
Department: Radiology And Biomedical Imaging

May the student choose the instructor for this course? Yes  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)

Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

**RADIOLOGY 150.01 Research in Radiology (2-12 Units) Fall, Winter, Spring, Summer**  
*Instructor(s): Priyanka Jha*  
Prerequisite(s): Medicine 110 and approval of instructor.

Restrictions: None

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

A research project under the direction of a member of the faculty.

School: Medicine  
Department: Radiology And Biomedical Imaging

May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/ Unsatisfactory)

Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  
Repeat course for credit? Yes
**RADIOLOGY 170.04 Introduction to Radiology (1 Units) Fall**  
*Instructor(s):* Emily M Webb  
*Prerequisite(s):* None. 

Restrictions: Restricted to 1st and 2nd year medical students. 

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion 

This course is intended for first-year and second-year medical students who are interested in medical imaging from a clinical or research perspective. Through weekly lectures by radiologists from the UCSF Department of Radiology, student will be introduced to the various specialties within the field of radiology, the fundamental theory, clinical utility, and limitations of each imaging modality; and, the most recent scientific advances in and future applications of medical imaging. 

School: Medicine  
Department: Radiology And Biomedical Imaging  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No 

**RADIOLOGY 170.08 Introduction to Interventional Radiology (1 Units) Fall, Winter, Spring, Summer**  
*Instructor(s):* Vishal Kumar, Evan D Lehrman, Miles B. Conrad  
*Prerequisite(s):* None. 

Restrictions: Restricted to 1st and 2nd year medical students. 

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects 

This course is intended for first-year and second-year medical students who are interested in interventional radiology. Through lectures by interventional radiologists from the UCSF Department of Radiology, student will be introduced to the field of interventional radiology, the fundamental theory, clinical utility and limitations of the field; and, the most recent scientific advances in and future applications of interventional radiology. 

School: Medicine  
Department: Radiology And Biomedical Imaging  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? No  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No 

**RADIOLOGY 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer**  
*Instructor(s):* Emily M Webb, Priyanka Jha  
*Prerequisite(s):* Approval of instructor. 

Restrictions: None. 

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects 

Library research and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department. 

School: Medicine  
Department: Radiology And Biomedical Imaging  
May the student choose the instructor for this course? No  
Does enrollment in this course require instructor approval? Yes  
Course Grading Convention: P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)  
Graduate Division course: No  
Is this a web-based online course? No  
Is this an Interprofessional Education (IPE) course? No  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No