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#### RADIOLOGY (RADIOLOGY)

# RADIOLOGY 130.01 CIEx - Interventional Radiology - UCSF Parnassus (3 Units) Fall, Winter, Spring, Summer

Instructor(s): Evan Lehrman
Prerequisite(s): None

Restrictions: Medical Students in Foundations 2

Activities: Clinical

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 Repeat course for credit? 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

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

Repeat course for credit? No

#### RADIOLOGY 130.03 CIEx - Interventional Radiology Immersion - ZSFG (3 Units) Fall, Winter, Spring, Summer

Instructor(s): Sujal Nanavati, Vishal Kumar

Prerequisite(s): None

Restrictions: Medical Students in Foundations 2

Activities: Clinical

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 Repeat course for credit? No

### RADIOLOGY 130.04 CIEx - Apprenticeship Experience in Radiology (3 Units) Fall, Winter, Spring, Summer

Instructor(s): Emily 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: Clinical

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? 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? No

# RADIOLOGY 140.02A Off-Campus Clerkship (3-6 Units) Fall, Winter, Spring, Summer

Instructor(s): Emily Webb Prerequisite(s): Medicine 110

Restrictions: None
Activities: Clinical

This clinical visiting clerkship at an approved, non-UCSF institution provides the opportunity for learners to explore the role of radiology in clinical medicine, and to develop skill in performing select imaging workups and effective team and family-oriented communication. Enrollment requires the 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? 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 140.02B Off-Campus Clerkship (3-6 Units) Fall, Winter, Spring, Summer

Instructor(s): Emily Webb Prerequisite(s): Medicine 110

Restrictions: none
Activities: Clinical

This clinical visiting clerkship at an approved, non-UCSF institution provides the opportunity for learners to explore the role of radiology in clinical medicine, and to develop skill in performing select imaging workups and effective team and family-oriented communication. Enrollment requires the 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? 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 140.03 Diagnostic Radiology (3 Units) Fall, Winter, Spring, Summer

Instructor(s): Emily Webb, Maya Vella
Prerequisite(s): MEDICINE 110, SURGERY 110

Restrictions: 4th year students only

Activities: Lecture

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? No

Is this an Interprofessional Education (IPE) course? No

 $\label{eq:may-students} \mbox{May students in the Graduate Division (i.e.\ pursuing\ Master\ or\ PhD)}$ 

enroll in this course? No Repeat course for credit? No

# RADIOLOGY 140.13A Clinical Radiology - Fresno (3 Units) Fall, Winter, Spring, Summer

Instructor(s): Malcolm Anderson
Prerequisite(s): 4th year standing

Restrictions: n/a

Activities: Seminar, Clinical, Independent Study

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 Conrad, Mark Wilson, Evan Lehrman, Vishal Kumar Prerequisite(s): Completion of first 2 years of medical school.

Restrictions: None
Activities: Clinical

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 Repeat course for credit? 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: Clinical

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? 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? No

# RADIOLOGY 140.19 Advanced Clinical Clerkship in Radiology (3-6 Units) Fall, Winter, Spring, Summer

Instructor(s): Maya Vella, Emily Webb Prerequisite(s): Consent of Course Director

Restrictions: Open to UCSF and U.S. students\r\nMedical students only

Activities: Clinical

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? No

Is this an Interprofessional Education (IPE) course? No

 $\label{eq:may-students} \mbox{May students in the Graduate Division (i.e.\ pursuing\ Master\ or\ PhD)}$ 

enroll in this course? No Repeat course for credit? No

## RADIOLOGY 140.22 Interventional Radiology - UCSF Parnassus (6 Units) Fall, Winter, Spring, Summer

Instructor(s): Evan Lehrman

Prerequisite(s): Completion of first two years of medical school.

Restrictions: None
Activities: Clinical

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? 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 Repeat course for credit? No

## RADIOLOGY 150.01 Research in Radiology (2-12 Units) Fall, Winter, Spring, Summer

Instructor(s): Maya Vella, Emily Webb

Prerequisite(s): Medicine 110 and approval of instructor.

Restrictions: None

Activities: Fieldwork, Project

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 Webb
Prerequisite(s): None.

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

Activities: Lecture

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

 $\textbf{Course Grading Convention:} \ P/NP \ (Pass/Not \ Pass) \ or \ S/U \ (Satisfactory/Pass) \ or \$ 

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? No

# RADIOLOGY 170.08 Introduction to Interventional Radiology (1 Units) Fall, Winter, Spring, Summer

*Instructor(s):* Vishal Kumar, Evan Lehrman, Miles Conrad Prerequisite(s): None.

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

Activities: Lecture

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 Repeat course for credit? No

#### RADIOLOGY 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer

Instructor(s): Maya Vella, Emily Webb Prerequisite(s): Approval of instructor

Restrictions: None

Activities: Independent Study, Project

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 Repeat course for credit? Yes