

# ORTHOAEDIC SURGERY (ORTHO SURG)

## ORTHO SURG 130.01 CIEEx - Orthopaedic Surgery/ Sports Medicine Elective (3 Units)

*Instructor(s):* Drew Lansdown

*Prerequisite(s):* None

*Restrictions:* Medical Students in Foundations 2

This is a Bridges Curriculum Clinical Immersive Experience (CIEEx), 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. The goal of this 2 week sports medicine elective is to educate students in the comprehensive evaluation, pre-operative, surgical, and post-operative treatment as well as non-operative treatment of orthopedic injuries and related diseases.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 130.02 CIEEx- Integrative Orthopaedic Surgery (3 Units)

*Instructor(s):* Daniel Thuillier

*Prerequisite(s):* 3rd year student in good academic standing

*Restrictions:* None

This is a Bridges Curriculum Clinical Immersive Experience (CIEEx), 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 is a 2 week elective that introduces a case study of an orthopaedic surgery patient and follows their progress in healing and recovery. Students will spend time in outpatient clinic and the operating room with orthopaedic faculty.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 130.05 CIEEx-Orthopaedic Surgery Selective (3 Units)

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* None

*Restrictions:* 3rd Year Medical (MD) Students in good academic standing

Two-week elective providing exposure to history and physical examination and treatment of patients on inpatient and outpatient services. Assistance in surgery and the use of treatment modalities is required. Clinical demonstrations, seminars and conferences form the basic for didactic instruction. Students will be assigned to services based on attending availability (and student preference if available).

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 130.10 CIEEx - Introduction to Orthopaedic Hand Surgery - Fresno (3 Units)

*Instructor(s):* Nathan Hoekzema

*Prerequisite(s):* Completion of Surgery Core Clerkship

*Restrictions:* None

This two-week elective will provide exposure to history and physical taking skills and treatment of patients on inpatient and outpatient orthopaedic and hand surgery services. Assistance in surgery and the use of treatment modalities is required. Clinical demonstrations, seminars and conferences form the basis for didactic instruction.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.01A Orthopaedic Surgery Clinical Clerkship (5-6 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* N/A

Restrictions: N/A

A 4-wk orthopedic surgery sub-internship. Students are assigned to an available subspecialty at Parnassus (inquire for subspecialty availability with course coordinator). Students receive instruction and experience in examination and treatment of patients with orthopedic conditions through clinical and operative exposure. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. A 10-minute case presentation to faculty and residents is required in summer.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.01B Orthopaedic Surgery Clinical Clerkship (5-6 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* N/A

Restrictions: None

A 4-wk orthopedic surgery sub-internship. Students are assigned to one of two orthopedic services at ZSFG (Blue=trauma, arthroplasty; Gold=trauma, sports, foot, hand). Students receive instruction and experience in examination and treatment of patients with orthopedic conditions through clinical and operative exposure. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. A 10-minute case presentation to faculty and residents is required in summer.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.01C Orthopaedic Surgery Clinical Clerkship - Pediatrics (5-6 Units)**

*Instructor(s):* Ishaan Swarup

*Prerequisite(s):* N/A

Restrictions: N/A

A 4-wk orthopedic surgery sub-internship. Students are assigned to pediatric orthopedic services at the Benioff Children's Hospital Oakland (inquire with course coordinator). Students receive instruction and experience in examination and treatment of patients with orthopedic conditions through clinical and operative exposure. Clinical demonstrations, seminars, & conferences form the basis for didactic instruction. A 10-minute case presentation to faculty and residents is required in summer.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.01D Orthopaedic Surgery Clinical Clerkship (5-6 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* N/A

Restrictions: N/A

A 4-wk orthopedic surgery sub-internship. Students are assigned to orthopedic services at SFVA (arthroplasty, sports, trauma, foot & ankle, hand). Students receive instruction and experience in examination and treatment of patients with orthopedic conditions through clinical and operative exposure. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. A 10-minute case presentation to faculty and residents is required in summer.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.01E Orthopaedic Surgery Clinical Clerkship (5-6 Units)**

*Instructor(s):* Nicole Schroeder  
*Prerequisite(s):* N/A

Restrictions: N/A

A 4-wk orthopedic surgery sub-internship. Students are assigned to an available subspecialty at Mission Bay/Orthopaedic Institute (inquire with course coordinator). Students receive instruction and experience in examination and treatment of patients with orthopedic conditions through clinical and operative exposure. Clinical demonstrations, seminars, and conferences form the basis for didactic instruction. A 10-minute case presentation to faculty and residents is required in summer.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.02A Off-Campus Clerkship (3-6 Units)**

*Instructor(s):* Nicole Schroeder  
*Prerequisite(s):* Surgery 110 and 111

Restrictions: Must complete 4 weeks  
 Must be taught/instructed by orthopaedic surgery faculty attending  
 Must apply through VSAS.  
 Approval for the course is approved by the instructor of record

Orthopaedic surgery clinical clerkships are offered in off-campus hospitals approved by the instructor of record for the course and the dean.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.02B Off-Campus Clerkship (3-6 Units)**

*Instructor(s):* Nicole Schroeder  
*Prerequisite(s):* SURGERY 110

Restrictions: Must complete 4 weeks. Must be taught/instructed by orthopaedic surgery faculty attending. Must apply through VSAS.  
 Approval for the course is approved by the instructor of record.

Orthopaedic surgery clinical clerkships are offered in off-campus hospitals approved by the instructor of record for the course and the dean.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.05 Orthopaedic Surgery Selective (1.5-3 Units)**

*Instructor(s):* Nicole Schroeder, Ishaan Swarup  
*Prerequisite(s):* 4th year in good academic standing

Restrictions: None

Two-week elective providing exposure to history and physical examination and treatment of patients on inpatient and outpatient services. Assistance in surgery and the use of treatment modalities is required. Clinical demonstrations, seminars and conferences form the basic for didactic instruction. Students will be assigned to services based on their preferences for sub-specialty and attending availability (contact course coordinator).

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 140.07 Advanced Orthopaedic Surgery - Fresno (6 Units)**

*Instructor(s):* Armen Martirosian

*Prerequisite(s):* SURGERY 110

Restrictions: None

Students receive instruction and experience in the examination and treatment of patients on the inpatient and outpatient services, including the viewing and interpretation of radiographic studies.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** Yes

**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

### **ORTHO SURG 140.08A Physical Medicine & Rehabilitation Clinical Clerkship (6 Units)**

*Instructor(s):* Lisa Pascual, Masato Nagao, Matthew Garibaldi, Sibel Deviren

*Prerequisite(s):* This rotation is ideally suited for 3rd and 4th year medical students with experience in direct patient care.

Restrictions: This rotation is ideally suited for 3rd and 4th year medical students with experience in direct patient care.

This elective offers students experience in the field of Physical Medicine and Rehabilitation (PM&R). Students will be exposed to patients with functional impairments due to a wide variety of illnesses and injuries in both the inpatient and outpatient settings. Students will become proficient in the neuromusculoskeletal examination and develop skills to lead an interdisciplinary team in the rehabilitation management of patients with disabling conditions.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** Yes

**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

### **ORTHO SURG 140.08B Physical Medicine & Rehabilitation Clinical Elective (3 Units)**

*Instructor(s):* Lisa Pascual, Masato Nagao, Matthew Garibaldi, Sibel Deviren

*Prerequisite(s):* This rotation is ideally suited for 3rd- and 4th-year medical students with experience in direct patient care.

Restrictions: None.

This elective offers students experience in the field of Physical Medicine and Rehabilitation (PM&R). Students will be exposed to patients with functional impairments due to a wide variety of illnesses and injuries in both the inpatient and outpatient settings. Students will become proficient in the neuromusculoskeletal examination and develop skills to lead an interdisciplinary team in the rehabilitation management of patients with disabling conditions.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** Yes

**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

### **ORTHO SURG 150.01 Research in Orthopaedic Surgery (3-18 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* Consent of faculty member in charge of students research project and approval of third- and fourth-year coordinator. SURGERY 110

Restrictions: Consent of faculty member in charge of students research project and approval of third- and fourth-year coordinator.

Students continue previously initiated research projects under the guidance of faculty members.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 160.01 Introduction to Clinical Orthopaedics & Anatomy (1 Units)

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* None

*Restrictions:* None

For MS1 & MS2 students. This course offers exposure to the anatomy lab and dedicated musculoskeletal anatomy dissections from orthopedic surgeons. Students who complete the course will be able to identify common musculoskeletal conditions of the hip, knee, shoulder/elbow, wrist/hand and spine; learn basic physical examination skills related to specific musculoskeletal conditions, and identify pertinent surgical anatomy related to musculoskeletal pathology and surgical treatment of disease.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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?** Yes

**Repeat course for credit?** No

## ORTHO SURG 160.03 An Interactive Intro to Health Technology and Innovation (1 Units)

*Instructor(s):* Aenor Sawyer

*Restrictions:* None.

This course organized by the Health Technology Interest Group will consist of 10 hour-long classes. Approximately half of the classes will feature speakers including students, faculty and entrepreneurs, from within and outside UCSF. The rest of the classes will be interactive skills-building sessions during which students will participate in using technology tools (eg. learn to build a mobile app using online resources). The goal is provide a forum for exposure to innovative ideas.

**School:** Medicine

**Department:** Anatomy

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 160.04 Orthopaedic Surgical Skills and OR Assist Elective (1 Units)

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* None

*Restrictions:* None

Medical students will have the opportunity to learn about orthopaedic surgical skills and techniques — suturing, plating a long bone fracture, using a bone saw, etc. — and assist ortho faculty in the operating room and clinic. Students will attend two surgical skills labs where they will learn how to use orthopaedic surgical instruments and repair a long-bone fracture. Students will also be able to develop mentoring relationships with orthopaedic faculty through the OR Assist Mentor Match.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## ORTHO SURG 160.05 Personal Finance for Medical Students, Part 1 (1 Units)

*Instructor(s):* Derek Ward

*Prerequisite(s):* None

*Restrictions:* None

This course is the first part of a 3-part introduction to personal finance for medical professionals. Initial topics will include budgeting, loans and debt management, and the basics of investing. In this course, medical students will develop a framework to begin thinking about personal financial decisions and the unique financial positions of a career in medicine in order to establish good habits necessary for financial success as a physician.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 160.06 Personal Finance for Medical Students, Part 2 (1 Units)**

*Instructor(s):* Derek Ward

*Prerequisite(s):* This is part of a 3 part series of Ortho Surg 160.05, 160.06 and 160.07 offered in Fall, Winter and Spring quarters.

*Restrictions:* Medical Students only

This course is the second part of a 3-part introduction to personal finance for medical professionals. The elective will explore the particular tax situations that physicians face, insurance coverage (malpractice, disability, and life), and how physicians are compensated in various employment systems. Students will learn tax strategies unique to medical income groups, gain knowledge to make insurance decisions, and improve their understanding of reimbursement for their work.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 160.07 Personal Finance for Medical Students, Part 3 (1 Units)**

*Instructor(s):* Derek Ward

*Prerequisite(s):* The Money Doctor, Ortho Surg 160.05 (Part 1 of the series)

*Restrictions:* None

This course is the third part of a 3-part series intended as introduction to personal finance topics for medical professionals. In this consolidation students will learn about retirement planning and various account types as well as important financial milestones they may face as they pursue their financial goals. This course will prepare students to make more informed decisions at major financial landmarks such as home buying, caretaking of family, marriage, children, and retirement.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

### **ORTHO SURG 160.08 Introduction to Physical Medicine & Rehabilitation (PM&R) (1 Units)**

*Instructor(s):* Karina Del Rosario

*Prerequisite(s):* None

*Restrictions:* None

This elective offers an introduction to the interdisciplinary field of Physical Medicine and Rehabilitation (PM&R) to allow students to explore the field early in their professional education. Each week, a physician or other PM&R healthcare provider will present to students about their role within the field of PM&R and the patients they work with. Subspecialties such as Sports Medicine, Pediatrics, Neuromuscular Medicine, and many others will be introduced and explored.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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?** Yes

**Repeat course for credit?** No

### **ORTHO SURG 170.01 Orthopaedic Surgery Interest Group Elective (1 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* N/A

*Restrictions:* N/A

This course offers a series of lunchtime lectures delivered by various orthopaedic surgeons, including non-operative, from the department. Course goals are to introduce students to the field of Orthopaedic Surgery, learn about the career of an orthopaedic surgeon, and have time for questions & answers with each faculty attending.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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

## **ORTHO SURG 198 Supervised Study (1-6 Units)**

*Instructor(s):* Nicole Schroeder

*Prerequisite(s):* Consent of instructor preceptor and approval of third- and fourth-year coordinator.

*Restrictions:* Medical students only

Focused study and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department.

**School:** Medicine

**Department:** Orthopaedic Surgery

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**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