DOCTOR OF MEDICINE (MD)

Visit program website. (https://meded.ucsf.edu/md-program/)

Degree Offered: MD
Program Leadership:
Catherine Lucey, MD, Executive Vice Dean, School of Medicine and Vice Dean for Education
John Davis, PhD, MD, Associate Dean for Medical Education
Admissions Inquiries:
Hallen Chung, Director of Admissions

Program Description
At UCSF, the purpose of medical education is to educate learners who will improve the health of our communities and alleviate suffering due to illness and disease in our patients. The UCSF School of Medicine Bridges Curriculum educates MD graduates to excel in the competencies needed by 21st-century physicians. Our students work collaboratively with interprofessional teams to provide compassionate patient care while broadening their knowledge, advancing science, and seeking new ways to improve health care delivery in their communities and nationwide.

The MD program objectives (https://meded.ucsf.edu/md-program/current-students/curriculum/md-program-objectives/) are defined by seven core MD competencies (https://meded.ucsf.edu/md-program/current-students/curriculum/md-program-objectives/); patient care, medical knowledge, practice-based learning and improvement, interpersonal and communication skills, professionalism, systems-based practice, and interprofessional collaboration.

The Bridges Curriculum is a three-phase, fully integrated curriculum delivered over four years:

- Foundations 1 (https://meded.ucsf.edu/foundations-1/): Students gain foundational knowledge in basic and clinical sciences while building the habits of mind of an inquiring physician, contributing to the health of patients and improving the delivery of health care.
- Foundations 2 (https://meded.ucsf.edu/foundations-2/): During their immersion in team-based clinical settings, students advance their patient care and systems improvement skills, while revisiting core concepts in foundational science as they relate to patient care decisions.
- Career Launch (https://meded.ucsf.edu/career-launch/): During this individualized phase of the curriculum, students choose clinical experiences and a scholarly project aligned with their career goals.

Learn more about the Bridges Curriculum (https://meded.ucsf.edu/md-program/current-students/curriculum/bridges-curriculum-overview/)

Admission Requirements
Premedical students should pursue a four-year undergraduate curriculum and obtain a baccalaureate degree before entering medical school. Prerequisite courses include: a year of biology with laboratory, a year of chemistry including at least one semester of organic chemistry, at least semester of physics, and one course in biochemistry. While these courses constitute the basic foundation for all applicants, most successful applicants will have gone beyond these prerequisites and will have demonstrated the ability to perform at a high level academically. Applicants should take the Medical College Admission Test (MCAT) prior to entry at the medical school. UCSF considers the unique qualifications of each individual applicant. Consistent with this philosophy, UCSF accepts students with a wide range of undergraduate pursuits and accomplishments. Student selection is based on an appraisal of those intellectual and personal characteristics that the admissions committee regards as desirable for prospective medical students and physicians. Both cognitive and non-cognitive factors play an important part in the selection process. For more information, please visit meded.ucsf.edu/admissions-md-program (https://meded.ucsf.edu/admissions-md-program/).

Learning Outcomes
The MD program objectives are the graduation milestones for the UCSF School of Medicine. Upon graduation from the UCSF MD Program, students are required to have demonstrated competence in the competencies listed below. For each competency, a set of milestones defines the expected progress throughout medical school toward achieving competence.

Patient Care
Graduates will be able to:

- Gather complete and focused histories from patients, families, and electronic health records in an organized manner, appropriate to the clinical situation and the individual, interpersonal, and structural factors that impact health
- Conduct complete and focused physical exams, using technology-enhanced physical diagnosis tools where appropriate, interpreting abnormalities and maintaining patient comfort
- Present encounters efficiently, including relevant gathered information, assessment, and plan
- Document patient encounters accurately, efficiently, and promptly including independent authorship for reporting of information, assessment, and plan
- Manage patients as part of a team, including prioritizing patient care tasks efficiently to provide high-quality care that addresses their medical and social needs

Medical Knowledge
Graduates will be able to:

- For the UCSF 49, establish and maintain knowledge necessary for the preventive care, diagnosis, treatment, and management of medical problems
- Through an inquiry-oriented and analytic approach to learning and patient care, develop and implement approaches for generating and applying new knowledge, including an individual course of study that emphasizes inquiry, discovery, and dissemination
- For the UCSF 49, select, justify, and interpret diagnostic tests and imaging
- For the UCSF 49, diagnose and explain clinical problems
- Use electronic decision support tools to inform clinical reasoning and decision making
- For the UCSF 49, select and apply basic preventive, curative, and/or palliative therapeutic strategies

Practice-Based Learning and Improvement
Graduates will be able to:
• Locate, appraise, and apply evidence from scientific studies related to patients’ health needs
• Critically reflect on one’s own performance to identify strengths and challenges; reflect on and address the impact that personal biases, identity, and privilege have on interactions and decision-making; set learning and improvement goals; and engage in learning activities that address one’s gaps in knowledge, skills, and/or attitudes
• Employ strategies for seeking, receiving, acting upon, and delivering feedback, and contribute to a culture of openness to and appreciation of feedback

**Interpersonal and Communication Skills**

Graduates will be able to:

• Communicate effectively in interpersonal and electronic communications with patients, families, peers, and other team members of diverse backgrounds, languages, cultures, and communities using strategies to build alliances, promote inclusion and equity, and ensure patient, peer, or other team members’ understanding
• Demonstrate sensitivity, honesty, and compassion in difficult conversations with patients and families
• Share and elicit information and negotiate management plans using shared decision making with patients and their families
• Anticipate, interpret, and respond to one’s own and others’ emotions to manage interpersonal interactions effectively

**Professionalism**

Graduates will be able to:

• Form relationships with patients, families, and colleagues that demonstrate sensitivity and responsiveness to how others define their culture, race/ethnicity, age, socioeconomic status, gender, gender identity, sexual orientation, religion, spirituality, disabilities, and other aspects of diversity and identity
• Demonstrate respect, compassion, honesty, and integrity when interacting with patients, families, colleagues, and teams
• Balance the needs of patients and health care team with one’s own needs
• Recognize the need for additional help or supervision and seek it accordingly
• Demonstrate accountability and reliability, including initiative, responsiveness, and follow-through, in interactions with patients, families, and colleagues in interpersonal and electronic communications, including electronic health records
• Practice with a commitment to ethical principles, social justice, and societal needs, including maintaining patient confidentiality, responding to medical errors and healthcare disparities, respecting patient autonomy, maintaining appropriate boundaries, and using electronic communications, including social media, appropriately
• Adhere to institutional, regulatory, and professional standards and administrative expectations; personal, patient, and public safety; adhere to principles of ethical research; and manage conflicts of interest
• Demonstrate healthy coping mechanisms to respond to stress, including using resources to promote wellness and maintain professional behavior
• Demonstrate ongoing commitment to one’s own professional identity formation as a physician accountable to patients, society, and the profession

**Systems-Based Practice**

Graduates will be able to:

• Collaborate to coordinate patient care within and across health care systems, including patient hand-offs
• Participate in a systematic approach to promote patient safety
• Participate in continuous improvement in a clinical setting, utilizing a systematic and team-oriented approach to improve the quality and value of care for patients and populations
• Apply understanding of current and historical factors affecting health equity, including structural inequalities in access to and quality of health care, to improve the health of patients and communities

**Interprofessional Collaboration**

Graduates will be able to:

• Use the knowledge of one’s own role in different teams and settings and the roles of other health professionals to assess and address the health care needs of patients and populations
• Communicate with other health professionals in a responsive and responsible manner that supports a collaborative approach to the maintenance of health and the treatment of disease in patients and populations
• Work with other health professionals to establish and maintain a climate of mutual respect, dignity, diversity, ethical integrity, and trust

**Dual Degree/Special Programs**

Students in special programs may have additional requirements. Learn more (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/).

• MD/Masters in Advanced Studies (MD/MAS) (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#MD/MAS)
• MD with Distinction (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#MD-with-Distinction)
• Medical Scientist Training Program (MSTP) (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#MSTP)
• UC Berkeley · UCSF Joint Medical Program (MD, MS) (https://catalog.ucsf.edu/programs/public-health-mph-md/)
• MD, Masters of Public Health (MPH) Program (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#MD/MPH)
• Program in Medical Education for the Urban Underserved (PRIME-US) (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#PRIME)
• San Joaquin Valley Program in Medical Education (SJV PRIME) (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#SJV-PRIME)
• MD, PhD in History of Health Sciences (https://meded.ucsf.edu/md-program/prospective-students/admissions-md-program/degrees-and-programs/education-programs/#history-of-health-sciences)

Additional Information

Foundations 1 Leadership

Foundations 2/Career Launch Leadership

Career Outcomes
https://meded.ucsf.edu/md-program/current-students/student-services/advising-career-development (https://meded.ucsf.edu/md-program/current-students/student-services/advising-career-development/)

Degree Requirements

Foundations 1
Successful completion and passing grade in IDS 121A, IDS 121B, IDS 123A, IDS 121C, IDS 121D, IDS 122A, IDS 122B, IDS 122C.

Foundations 2 Requirements in Weeks

<table>
<thead>
<tr>
<th>Activity</th>
<th>Number of Weeks/ Sessions</th>
<th>Number of Units</th>
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<tbody>
<tr>
<td>8 Core Clerkships:</td>
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<tr>
<td>MED 110 = 8 weeks</td>
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<td>12</td>
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<tr>
<td>SURG 110 = 8 weeks</td>
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<td>12</td>
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<tr>
<td>Peds 110 = 6 weeks</td>
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<td>9</td>
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<tr>
<td>FCM 110 (1 full clinic day every other week)</td>
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<td>9</td>
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<tr>
<td>OB mediocre</td>
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<td>6</td>
</tr>
<tr>
<td>PSYCH 110 = 4 weeks</td>
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<td>6</td>
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<tr>
<td>ANES 110 = 2 weeks</td>
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<td>3</td>
</tr>
<tr>
<td>FCM 110 = 22 full-day sessions and 1 FCM Seminar on FS-in-F2 Day</td>
<td>2 units (winter, spring, summer qtr.) 3 units (fall qtr.)</td>
<td>1.5/qtr.</td>
</tr>
<tr>
<td>FCM Seminar/ADR/FS-in-F2 Day (1 full day every other week)</td>
<td>22 sessions</td>
<td>1.5/qtr.</td>
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<tr>
<td>ARCH 2 weeks</td>
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<td>3</td>
</tr>
<tr>
<td>Clinical Immersion Experiences (CIExes)</td>
<td>6 weeks</td>
<td>9</td>
</tr>
<tr>
<td>Flex Time (may be used as vacation or for additional CIEx)</td>
<td>2 weeks</td>
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<tr>
<td>Vacation</td>
<td></td>
<td>2 weeks</td>
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<tr>
<td>Total</td>
<td></td>
<td>50 weeks</td>
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</table>

1 Students are not required to attend FCM 110 or the FS-in-F2 Day during scheduled vacation or on University holidays.

Career Launch Requirements in Weeks

<table>
<thead>
<tr>
<th>Activity</th>
<th>No Prior Scholarly Work</th>
<th>Prior Scholarly Work</th>
<th>Late start to F2 (e.g. MSTP)</th>
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</thead>
<tbody>
<tr>
<td>Introduction to Career Launch/Designing Clinical Research</td>
<td>4 weeks</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Clinical Requirements/Rotations</td>
<td>24 weeks</td>
<td>24 weeks</td>
<td>24 weeks</td>
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<tr>
<td>Inquiry Deep Explore 2</td>
<td>20 weeks</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>ARCH</td>
<td>2 weeks</td>
<td>1-2 weeks</td>
<td>2 weeks</td>
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<tr>
<td>Coda</td>
<td>3 weeks</td>
<td>3 weeks</td>
<td>3 weeks</td>
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<tr>
<td>Unscheduled</td>
<td>8 weeks</td>
<td>32-33 weeks</td>
<td>16 weeks</td>
</tr>
<tr>
<td>TOTAL</td>
<td>61 weeks</td>
<td>61 weeks</td>
<td>45 weeks</td>
</tr>
<tr>
<td>SPAN</td>
<td>16 1/2 day sessions</td>
<td>16 1/2 day sessions</td>
<td>16 1/2 day sessions</td>
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</tbody>
</table>

1 Students will be required to either attend sessions or complete intersessions modules (~24 hours content) as independent study.
2 Minimum of 12 weeks within Inquiry Deep Explore must be for scholarly Inquiry Deep Explore project work. The additional 8 weeks can be used for clinical work, scholarly Inquiry Deep Explore project work, or other credit-bearing work such as teaching.
3 Students who start Career Launch late will convert the first scheduled ARCH week to unscheduled time.

Career Launch Clinical Requirements/Rotation Categories

Advanced Core Skills: Meeting UCSF Milestones and entering ACGME specialty zero milestones (if applicable) while student is functioning as a primary caretaker in an intern role. 12 weeks total

• Advanced Medicine (Med 140.01/FCM 140.40) 4-week rotation; required of all students
• Acute/Urgent Care. 4-week rotation
• Advanced Specialty & Sub-Specialty. 4 weeks total

Elective Skills: 12 weeks total

Core Courses

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Units</th>
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<tbody>
<tr>
<td>INTERDEPT 121A</td>
<td>Foundations 1</td>
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<td>INTERDEPT 121B</td>
<td>Foundations 1</td>
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<tr>
<td>INTERDEPT 121C</td>
<td>Foundations 1</td>
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<td>INTERDEPT 121D</td>
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<tr>
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<td>INTERDEPT 122B</td>
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<td>INTERDEPT 122C</td>
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<td>INTERDEPT 123A</td>
<td>Inquiry Immersion 1</td>
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<td>ANE PERIOP 110</td>
<td>Anesthesia Core Clerkship</td>
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<td>Course</td>
<td>Credits</td>
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<tr>
<td>MEDICINE 140.25 Nephrology</td>
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<tr>
<td>MEDICINE 140.26 ICU Subinternship - VAMC-SF</td>
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<td>MEDICINE 140.27 Cardiac Care Unit - CPMC</td>
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<td>MEDICINE 140.29 Medical Oncology</td>
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<td>MEDICINE 140.30 Endocrine Metabolism - ZSFG</td>
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<td>MEDICINE 140.35 Cardiology</td>
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<td>MEDICINE 140.39 Pulmonary Disease</td>
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<td>MEDICINE 140.55 Medicine Subinternship - CPMC</td>
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<td>MEDICINE 140.60 Medicine Subinternship - Highland Hospital - AHS</td>
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<td>MEDICINE 140.66 Internal Medicine - Fresno</td>
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<td>MEDICINE 140.68 Infectious Diseases - Fresno</td>
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<td>MEDICINE 140.69 Cardiology - Fresno</td>
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<tr>
<td>MEDICINE 140.71 Pulmonary Disease - Fresno</td>
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<td>MEDICINE 140.72 Comprehensive Palliative Care</td>
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<td>MEDICINE 140.77 Endocrinology/Diabetes - Fresno</td>
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<td>MEDICINE 140.78 Critical Care Medicine - Fresno</td>
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<td>MEDICINE 140.80 Gastroenterology &amp; Hepatology - Fresno</td>
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<td>MEDICINE 140.83 Rheumatology - Fresno</td>
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<td>MEDICINE 140.97 Medical Intensive Care Unit</td>
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<td>NEURO SURG 140. Advanced Neurosurgery Clerkship</td>
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<td>NEUROLOGY 140. Child Neurology</td>
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<td>NEUROLOGY 140. Advanced Clinical Neurology - Fresno</td>
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<td>NEUROLOGY 140. Advanced Neurocritical Care and Emergency</td>
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<td>Neurology - ZSFG</td>
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<td>MEDICINE 140. Neurocritical Care</td>
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<td>OB GYN R S 140. Advanced Inpatient Ob/Gyn Elective - Fresno</td>
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<td>OB GYN R S 140.2 Gynecologic Oncology</td>
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<td>OPHTHALMOL 140. Advanced Ophthalmology Clkshp</td>
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<td>ORTHO SURG 140. Orthopaedic Surgery Clinical Clerkship</td>
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<td>ORTHO SURG 140. Physical Medicine &amp; Rehabilitation Clinical Clerkship</td>
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<td>OTOLARYN 140. Advanced Otolaryngology Clerkship</td>
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<tr>
<td>PEDIATRICS 140. Inpatient Pediatrics Subinternship - UCSF Oakland</td>
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MEDICINE 130.01 CIEx - Medication Management: Improving Patient Safety
MEDICINE 130.02 CIEx - Nephrology Apprenticeship 1.5-3
MEDICINE 130.03 CIEx - Gastroenterology 1.5-3
MEDICINE 130.04 CIEx - Pulmonary Medicine 1.5-4.5
MEDICINE 130.07 CIEx - Inpatient Medicine/Cardiology Service 3
MEDICINE 130.08 CIEx - Inpatient Medicine - Kaiser East Bay 3
MEDICINE 130.10 CIEx - Transplant Hepatology 1.5-3
MEDICINE 130.12 CIEx - Occupational and Environmental Medicine 3
MEDICINE 130.13 CIEx - Relationship-Centered Communication for Underserved 3
MEDICINE 130.14 CIEx - Introduction to Adult Hematology 1.5-3
MEDICINE 130.15 CIEx - Women’s Health Elective - VAMC-SF 1.5-3
MEDICINE 130.16 CIEx - Prostate and Lung Cancer Elective - VAMC-SF 3
MEDICINE 130.17 CIEx - Urgent Care Medicine 3
MEDICINE 130.18 CIEx - Inpatient Procedure and Simulation - Fresnb5-3.5
MEDICINE 130.18 CIEx - Inpatient Procedure and Simulation - Fresnb3-3.5
MEDICINE 130.19 CIEx - Immersive Experience in Palliative Medicine 1.5-3
MEDICINE 130.20 CIEx - Immersive Experience in Interventional Cardiology 1.5-3
MEDICINE 130.21 CIEx - Medical Student as Writer 3
MEDICINE 130.21 CIEx - Cohort Management - KLC-East Bay 3
MEDICINE 130.21 CIEx - Cohort Management - KLSC-Fresno 3
MEDICINE 130.22 CIEx - Sports Medicine - Kaiser San Francisco 1.5-3
MEDICINE 130.23 CIEx - Interprofessional Addiction Care 3
MEDICINE 130.24 CIEx - An Interdisciplinary Approach to Weight Management 3
MEDICINE 130.25 CIEx - HIV/AIDS Inpatient Experience 3
MEDICINE 130.26 CIEx - Inpatient Solid Tumor Oncology 3
MEDICINE 130.30 CIEx - SJV Leadership and Clinical Skills Building - Fresno 3
MEDICINE 130.31 CIEx - Internal Medicine Rural - Fresno 3
MEDICINE 130.32 CIEx - Career Exploration Elective - LIFE 1.5-2
MEDICINE 130.68 CIEx - Infectious Disease - Fresno 3
MEDICINE 130.71 CIEx - Pulmonary - Fresno 3
MEDICINE 130.77 CIEx - Endocrine/Diabetes - Fresno 3
MEDICINE 130.79 CIEx - Lung Nodule - Fresno 3
MEDICINE 130.80 CIEx - Gastroenterology & Hepatology - Fresno 3
MEDICINE 130.81 CIEx - Hematology/Oncology - Fresno 3
MEDICINE 130.82 CIEx - Sleep Medicine - Fresno 3
MEDICINE 130.84 CIEx - Nephrology - Fresno 3
MEDICINE 140.03 Clinical Geriatrics 3
MEDICINE 140.67 CIEx - Neuromusculoskeletal Immersion - Fresno 3
MEDICINE 130.01 CIEx - Neurosurgery Elective - VAMC-SF 1.5-3
MEDICINE 130.02 CIEx - Neurosurgery Apprenticeship 3
MEDICINE 130.03 CIEx - Neurosurgery Subspecialty 3
MEDICINE 130.04 CIEx - Pediatric Neurosurgery 3
MEDICINE 140.05 CIEx - Clinical Neurosurgery 1.5-3
MEDICINE 140.06 CIEx - Subspecialty Neurology 1.5-3
MEDICINE 130.07 CIEx - Clinical Behavioral Neurology 1.5-3
MEDICINE 130.08 CIEx - Subspecialty Neurology 1.5-3
MEDICINE 130.09 CIEx - Primary Care Neurology 1.5-3
MEDICINE 130.10 CIEx - Child Neurology Outpatient Apprenticeship 1.5-3
MEDICINE 130.11 CIEx - Child Neurology Inpatient Elective 3
MEDICINE 130.12 CIEx - Child Neurology Inpatient Subspecialty Elective 3
MEDICINE 130.13 CIEx - Surgical Gynecology Clinician Educator Apprenticeship 1.5-3
MEDICINE 130.14 CIEx - Reproductive Endocrinology and Infertility 3
MEDICINE 130.15 CIEx - Gynecology Minimally Invasive Surgery 3
MEDICINE 130.16 CIEx - Ophthalmology Elective - UCSF Mission Bay 1.5-3
MEDICINE 130.17 CIEx - Ophthalmology Elective - VAMC-SF 1.5-3
MEDICINE 130.18 CIEx - Ophthalmology Elective for Primary Care 1.5-3
MEDICINE 130.19 CIEx - Ophthalmology Elective for Primary Care 1.5-3
MEDICINE 130.20 CIEx - Orthopaedic Surgery/Sports Medicine Elective 3
MEDICINE 130.21 CIEx - Orthopaedic Surgery Selective 3
MEDICINE 130.22 CIEx - Orthopaedic Surgery Selective 1.5-3
MEDICINE 130.23 CIEx - Orthopaedic Surgery Selective 1.5-3
MEDICINE 130.24 CIEx - Orthopaedic Surgery/Sports Medicine Elective 3
MEDICINE 130.25 CIEx - Peds NICU - Fresno 4
MEDICINE 130.26 CIEx - Interventional Psychiatry 1.5-4.5
MEDICINE 130.27 CIEx - Psychiatry Consultation Service 3
MEDICINE 130.28 CIEx - Psychiatry Elective - VAMC-SF 3
MEDICINE 130.29 CIEx - Correctional Psychiatry in a Jail 1.5-3
MEDICINE 130.30 CIEx - Youth Mental Health - Benioff Children's Hospital 3
MEDICINE 130.31 CIEx - Radiation Oncology Apprenticeship 1.5-3
MEDICINE 130.32 CIEx - Interventional Radiology - UCSF Parnassus 3
MEDICINE 130.33 CIEx - Interventional Radiology - VAMC-SF 3
MEDICINE 130.34 CIEx - Interventional Radiology Immersion - ZSFG 3
MEDICINE 130.35 CIEx - Interventional Radiology Experience in Radiology 3
MEDICINE 130.36 CIEx - Apprenticeship Experience in Radiology 3
MEDICINE 130.37 CIEx - Plastic Surgery 3
MEDICINE 130.38 CIEx - Colorectal Surgery 3
MEDICINE 130.39 CIEx - Anorectal Diseases and Treatment 3
MEDICINE 130.40 CIEx - Vascular and Podiatry Elective - VAMC-SF 1.5-3
MEDICINE 130.41 CIEx - Surgical Apprenticeship - General Surgery 1.5-6
MEDICINE 130.42 CIEx - Surgical Apprenticeship - Breast 3
MEDICINE 130.43 CIEx - Surgical Apprenticeship - Transplant 3
MEDICINE 130.44 CIEx - Surgical Apprenticeship - Thoracic 3
MEDICINE 130.45 CIEx - Vascular Surgery - UCSF Parnassus 3
MEDICINE 130.46 CIEx - Innovation in Cardiac Surgery 3
MEDICINE 130.47 CIEx - Endocrine Surgery 3
MEDICINE 130.48 CIEx - Kidney Transplant Surgery 3
Surgery 130.10 CTEx - Surgical Skills Coaches Training 3
Surgery 130.28 CTEx - Surgery Breast Oncology - Fresno 3
Urology 130.01 CTEx - Urology 1.5-3
Urology 130.03 CTEx - Pediatric Urology 1.5-3
Urology 150.01 Research in Urology 3-24
Urology 140.05 Urology Selective 1.5-3
ANE Periop 140.0 Off-Campus Clerkship 3-6
ANE Periop 140.08 Obstetric Anesthesia 3
ANE Periop 140.1 Pediatric Anesthesia 3
Dermatol 140.0 Clinical Dermatology 3-6
Dermatol 140.0B Off-Campus Clerkship 3-6
Dermatol 140.0G Phototherapy & Psoriasis 6
Emerg Med 140.0 Off-Campus Clerkship 6
Emerg Med 140.1 Emergency Medical Services in Disaster Medicine 5-3.5
Emerg Med 140.2 Wilderness Medicine - Fresno 3
Emerg Med 140.3M Ultrasound at UCSF Fresno 6
Emerg Med 140.4 Emergency Medicine Ultrasound - Highland Hospital - AHS 6
Emerg Med 140.4 Clinical Toxicology & Pharmacology 6
Emerg Med 140.5 Emergency Medicine Ultrasound 6
Epidemiol 140.0P Preventive Medicine & Public Health 6
Epidemiol 140.0F Off-Campus Clerkship 1.5-6
Epidemiol 140.0G Clerkship in Human and Veterinary Disease Ecology 6
Fam CM Med 140 Off-Campus Clerkship 3-6
Fam CM Med 140 Advocacy Medicine 3
Fam CM Med 140 Care of Adolescents & Adults with Developmental Disabilities 3-6
Fam CM Med 140 Interprofessional Approaches to Integrative Medicine 3
Fam CM Med 140 Integrative Approaches to End-of-Life Care 3
Fam CM Med 140 Integrative Medicine In Emancipation & Farnsworth Health - Fresno 6
Fam CM Med 140 Community Medicine in International Perspective 6-9
Fam CM Med 140 Women's Health and HIV Care in Family Medicine 3
Fam CM Med 140 Integrated Outpatient Farmworker Elective - Fresno 6
Interdept 124A Community Engagement Rotation (CER) 6
Interdept 124B Community Engaged Project Work 2-6
Interdept 140.0G Expanding WikiProject Medicine 6
Interdept 196 Medical Student Teaching 3-15
Interdept 198 Intermediate Independent Study 1-12
Lab Med 140.01 Principles of Laboratory Medicine 3
Lab Med 140.06 Transfusion Medicine Elective 1.5-3
Lab Med 140.07 Hematology 3-6
Lab Med 140.08A Microbiology 2 week elective 3
Medicine 140.02 Off-Campus Clerkship 3-6
Medicine 140.03 Clinical Geriatrics 3
Medicine 140.05 Palliative Care Service Elective 3-6
Medicine 140.06 Occupational & Environmental Medicine 3-6
Medicine 140.09 Hematology Consult 6
Medicine 140.09A Hematology Consult 3
Medicine 140.10 Molecular Medicine Consult Service (MMCS) Elective 6
Medicine 140.13 HIV/Infectious Diseases Joint Consultation 3
Medicine 140.14 Sexually Transmitted Diseases 6
Medicine 140.21 Gastroenterology/Liver - Highland Hospital - AHS 3
Medicine 140.22 Narrative Medicine and Podcasting with The Nocturnists 6
Medicine 140.30 Endocrine Metabolism - ZSFG 3
Medicine 140.31 Medical ICU/CCU - Kaiser San Francisco 3
Medicine 140.32 Introduction to Quality Improvement & Patient Safety 3
Medicine 140.34 Renal Consultation 3-6
Medicine 140.41 Gastroenterology - ZSFG 3-6
Medicine 140.43 Lifestyle Medicine in Prevention and Treatment of Disease 3
Medicine 140.44 Ambulatory Internal Medicine - Fresno 6
Medicine 140.45 Endocrine Metabolism - VAMC-SF 3
Medicine 140.48 Pulmonary Medicine - St. Mary's 3
Medicine 140.49 Introduction to Poverty Medicine - UCSF Parnassus 3
Medicine 140.50 Clinical Care and Teaching at UCSF's Student Homeless Clinic 3
Medicine 140.68 Infectious Diseases - Fresno 3
Medicine 140.70 Hospital Medicine Elective - ZSFG 3
Medicine 140.71 Pulmonary Medicine - Fresno 3
Medicine 140.73 Cardiology/EKG Special Study Module - Fresno 6
Medicine 140.80 Gastroenterology & Hepatology - Fresno 3
Medicine 140.83 Rheumatology - Fresno 2.5
Medicine 140.91 ECG Interpretation 6
Medicine 141.16 Social Justice and Medicine in the East Bay 3
Medicine 141.17 Interprofessional Addiction Care 6
Neuro Surg 140.0F Off-Campus Clerkship 3-6
Neuro Surg 140 Clinical Neurosurgery 1.5-3
Neurology 140.0F Off-Campus Clerkship 1.5-6
Neurology 140 Clinical Behavioral Neurology 6
Neurology 140 Dementia in the Outpatient Setting - Fresno 3-6
OB Gyn R S 140.0 Off-Campus Clerkship 3-6
OB Gyn R S 140.1 Introduction to Gynecologic Oncology 3
OB Gyn R S 140.1 Introduction to Family Planning 3.5
OB Gyn R S 140.1 Introduction to Reproduction Endocrinology & Infertility 3
OB Gyn R S 140.2 Prenatal Diagnosis 3
OB Gyn R S 140.2F Fetal Therapy 3
OB Gyn R S 140.3 Introduction to Maternal Fetal Medicine 3
Ophthalmol 140.0F Off-Campus Clerkship 3-6
Ophthalmol 140 Ophthalmology for Primary Care 1.5-3
Or Mex Surg 140 Dentistry for Medical Students 3
Ortho Surg 140 Off-Campus Clerkship 3-6
Ortho Surg 140 Othopaedic Surgery Selective 1.5-3
Otolaryn 140.0F Off-Campus Clerkship 4
Otolaryn 140 Otolaryngology Surgery Selective 3
Pathology 150 Surgical & Autopsy Pathology 3-6
Pediatrics 140.0F Off-Campus Clerkship 3-6
Pediatrics 140.0 Pediatric Medical Genetics - Fresno 6
Psychiatry 140.0F Advanced Forensic Psychiatry - UCSF Parnassus - LPPI 6
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
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<td>Sexual Assault Response</td>
<td>3</td>
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<td>3-6</td>
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<td>Diagnostic Radiology</td>
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<td>Clinical Radiology - Fresno</td>
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<td>Advanced Clinical Clerkship in Radiology</td>
<td>3-6</td>
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<td>Non-Invasive Vascular Laboratory</td>
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<tr>
<td>UROLOGY 140.02</td>
<td>Off-Campus Clerkship</td>
<td>3-6</td>
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