

EMERGENCY MEDICINE (EMR)

School of Medicine

EMR 092 – Emergency Medicine Clinical Research Internship (1-4 units)

Course Description: Intended to give the undergraduate student an opportunity to conduct "hands-on" clinical research in the Emergency Department. Through the lecture/discussion, students will learn the basics of conducting and developing clinical research studies, using examples from ongoing studies.

Prerequisite(s): Consent of instructor; undergraduate student in good academic standing at UC Davis.

Learning Activities: Internship 6-12 hour(s).

Credit Limitation(s): Units awarded depend on hours worked.

Repeat Credit: May be repeated 4 unit(s).

Grade Mode: Pass/No Pass only.

EMR 092C – Joan Viteri Memorial Clinic Preceptorship (1.5 units)

Starting Winter Quarter 2025, this course is no longer offered.

Course Description: Directed towards the undergraduate students at UC Davis that volunteer at the Joan Viteri Memorial Clinic (JVMC).

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity, Seminar 1 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Pass/No Pass only.

EMR 192 – Emergency Medicine Clinical Research Internship (1-4 units)

Course Description: Intended to give the upper division undergraduate student an opportunity to conduct "hands-on" clinical research in the Emergency Department. Through the lecture/discussion, students learn the basics of conducting and developing clinical research studies.

Prerequisite(s): Consent of instructor; undergraduate student in good academic standing at UC Davis.

Learning Activities: Internship 6-12 hour(s).

Repeat Credit: May be repeated 2 time(s).

Grade Mode: Pass/No Pass only.

EMR 192A – Joan Viteri Memorial Clinic (JVMC) Student Volunteer (1 unit)

Starting Winter Quarter 2025, this course is no longer offered.

Course Description: Field experience in health care delivery, patient histories and physical examinations, health promotions and disease prevention, diagnosis and treatment of episodic, acute and chronic illness, basic laboratory testing and appropriate referral and follow-up. Students must apply and interview.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture/Discussion 1 hour(s).

Enrollment Restriction(s): Open to undergraduate students only.

Repeat Credit: May be repeated 9 time(s).

Grade Mode: Pass/No Pass only.

EMR 199A – Special Study for Advanced Undergraduates (4-12 units)

Starting Winter Quarter 2025, this course is no longer offered.

Course Description: For students interested in working on specific EM projects in a more extensive way. Must commit at least four hours per week for two quarters.

Prerequisite(s): Consent of instructor; experienced RA's who have successfully performed in the EMRAP program for a minimum of three quarters; must have database skills.

Learning Activities: Variable 4-12 hour(s).

Credit Limitation(s): Credit awarded upon completion of EMR 199B.

Grade Mode: Letter.

EMR 299 – Research (1-12 units)

Starting Summer Session 1 2025, this course is no longer offered.

Course Description: Directed research in the Department of Emergency Medicine.

Prerequisite(s): Consent of instructor.

Learning Activities: Variable 1-12 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Satisfactory/Unsatisfactory only.

EMR 401 – Preceptorship in Emergency Medicine (1-6 units)

Course Description: Exposure to the specialty of Emergency Medicine and observation of a wide array of patients in the Emergency Department.

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity 10 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Pass/Fail only.

EMR 405A – Fundamentals of Point-of-Care Ultrasound (1 unit)

Course Description: First in a longitudinal elective course spanning the first two years of medical school. Introduces the fundamental concepts and technique of ultrasonography in preparation for patient assessment during clinical work. Through a series of lectures accompanied by hands-on practice sessions and case challenges, spaced teaching and deliberate practice, students will grasp the fundamentals of diagnostic ultrasound and solidify their knowledge of key medical science concepts.

Learning Activities: Lecture 5 hour(s), Discussion/Laboratory 4 hour(s).

Grade Mode: Pass/Fail only.

EMR 405B – Fundamentals of Point-of-Care Ultrasound (1 unit)

Course Description: Second longitudinal elective course spanning the first two years of medical school. Introduces the fundamental concepts and technique of ultrasonography in preparation for patient assessment during clinical work. Through a series of lectures accompanied by hands-on practice sessions and case challenges, spaced teaching and deliberate practice, students will grasp the fundamentals of diagnostic ultrasound and solidify their knowledge of key medical science concepts.

Learning Activities: Lecture 5 hour(s), Discussion/Laboratory 4 hour(s).

Grade Mode: Pass/Fail only.

EMR 430 – Introduction to Medical Toxicology (3-6 units)

Course Description: In-depth review of clinical and medical toxicologic emergencies. Rotation includes contact with toxicology trained emergency faculty, didactic lectures, journal club, simulation training and exposure to a very busy poison control center.

Prerequisite(s): Consent of instructor; fourth-year medical student in good standing.

Learning Activities: Variable 40 hour(s).

Grade Mode: Honors/Pass/Fail.

EMR 431 – Diagnostic Medicine for the Undifferentiated Patient (3 units)

Course Description: Distance Learning Didactic Elective. Develop skills for clinical assessment and diagnostic planning for common acute complaints. Develop a process for further expansion of clinical assessment skills that can be utilized for any chief complaint. Develop a broad differential diagnosis based solely on the chief complaint; “scripts” are created. Problem-based learning, self-study, and a diagnostic modality project is utilized.

Learning Activities: Clinical Activity.

Grade Mode: Pass/Fail only.

EMR 435 – Wilderness Medicine (3-6 units)

Course Description: Introductory elective course for students to explore how physicians can interact with the environment in austere conditions through lectures, hands-on/field experience, and case-based learning.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture/Discussion 20 hour(s), Clinical Activity 12 hour(s), Independent Study 8 hour(s).

Grade Mode: Pass/Fail only.

EMR 440 – Emergency Medicine Clerkship (3-6 units)

Course Description: Students complete clinical shifts in the Emergency Department, functioning as Acting Intern. Treat a wide variety of patients and problems under the supervision of the EM Attending. Students are expected to take focused histories and present in clear, concise fashion.

Prerequisite(s): Satisfactory completion of Medicine, Surgery, and Pediatric Clerkship.

Learning Activities: Variable, Clinical Activity 46 hour(s), Lecture/Discussion 4 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

EMR 445 – Emergency Medicine Ultrasound for Fourth-Year Medical Student (3-6 units)

Course Description: Intended for students interested in learning both the technical and cognitive skills of bedside ultrasound. Emphasis will be on the use of ultrasound in emergency medicine as a diagnostic tool and in procedural guidance.

Prerequisite(s): Fourth-year Medical Student in good standing; interest in Emergency Medicine or Critical Care is recommended; EMR 440 or equivalent is recommended prior to the rotation.

Learning Activities: Variable.

Enrollment Restriction(s): Limited enrollment.

Grade Mode: Honors/Pass/Fail.

EMR 450 – Ambulatory Elective in Emergency Medicine (3-18 units)

Starting Summer Session 1 2025, this course is no longer offered.

Course Description: Credit will be given for approved non-AI Emergency Medicine courses at other institutions to which there is not an equal learning experience at UC Davis.

Learning Activities: Variable.

Enrollment Restriction(s): Restricted to MS4 students in good standing; externships/away rotations only.

Repeat Credit: May be repeated 2 time(s).

Grade Mode: Honors/Pass/Fail.

EMR 455A – Focus on POCUS A (3-6 units)

Course Description: Gain a greater proficiency of point-of-care ultrasound. Particularly useful for pursuing careers that use this modality heavily in clinical practice, such as primary care, pediatrics, emergency medicine, critical care, physical medicine and rehabilitation, etc.

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity 30 hour(s).

Grade Mode: Honors/Pass/Fail.

EMR 455B – Focus on POCUS B (6 units)

Course Description: Directed towards gaining a greater proficiency of point-of-care ultrasound. Particularly useful for those pursuing careers that use this modality heavily in clinical practice such as primary care, pediatrics, emergency medicine, critical care, physical medicine and rehabilitation, etc.

Prerequisite(s): Consent of instructor.

Learning Activities: Clinical Activity 30 hour(s).

Grade Mode: Honors/Pass/Fail.

EMR 465 – Externship in Emergency Medicine (3-9 units)

Course Description: Students complete clinical shifts in the Emergency Department, functioning as Acting Intern. Treat a wide variety of patients and problems under the supervision of the EM Attending. Students are expected to take focused histories and present in clear, concise fashion.

Prerequisite(s): Satisfactory completion of Medicine, Surgery and Pediatrics.

Learning Activities: Clinical Activity 36 hour(s), Lecture/Discussion 4 hour(s).

Repeat Credit: May be repeated.

Grade Mode: Honors/Pass/Fail.

EMR 470 – Pediatric Emergency Medicine Clerkship (3-6 units)

Course Description: See patients in the Pediatric area of the Emergency Department under the supervision of an Emergency Medicine Attending. Emphasis on recognition and management of the acutely ill pediatric patient and treatment of common pediatric complaints.

Prerequisite(s): Satisfactory completion of Medicine, Surgery, and Pediatrics.

Learning Activities: Clinical Activity 36 hour(s), Lecture/Discussion 4 hour(s).

Enrollment Restriction(s): Restricted to fourth-year medical student in good standing only.

Grade Mode: Honors/Pass/Fail.

EMR 475 – Addiction Medicine; Advanced Clinical Clerkship (3-6 units)

Course Description: Consists primarily of clinical experiences, with complementary didactics. Clinical experiences will be multidisciplinary, working with drug and alcohol counselors, harm reduction workers, and physicians in family medicine, emergency medicine, internal medicine, and psychiatry. Clinical skills focus on risk factors, diagnosis, comorbidities, and treatment of substance use disorders.

Learning Activities: Variable, Clinical Activity.

Grade Mode: Pass/Fail only.

EMR 480 – Understanding Health Policy: A Focus on Analysis & Translation (1-6 units)

Course Description: Paradigm of healthcare delivery in the U.S. is changing rapidly. To prepare the next generation of physician leaders, provide the skills, tools, and knowledge needed to impact decisions made at the policy level.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture 4 hour(s), Discussion 16 hour(s), Independent Study 10 hour(s).

Grade Mode: Honors/Pass/Fail.

EMR 490 – Emergency Procedures Elective (3 units)

Course Description: Simulator-based skills training for emergency procedures. Topics include airway management, central venous access, chest tube placement, and general critical care resuscitation skills.

Prerequisite(s): Current basic life support (BLS) certification.

Learning Activities: Discussion/Laboratory 24 hour(s), Web Virtual Lecture 8 hour(s), Tutorial 4 hour(s), Independent Study 4 hour(s).

Enrollment Restriction(s): Restricted to fourth-year medical student in good standing only.

Grade Mode: Pass/Fail only.

EMR 493A – Cardiac Arrest, Resuscitation & Reperfusion SSM (3 units)

Starting Winter Quarter 2025, this course is no longer offered.

Course Description: Special Studies Module, a four-week course specific to the topics of Cardiac Arrest, Resuscitation & Reperfusion.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture 5 hour(s), Lecture/Lab 10 hour(s), Laboratory 16 hour(s), Clinical Activity 4 hour(s).

Enrollment Restriction(s): Restricted to UC Davis School of Medicine students only.

Grade Mode: Honors/Pass/Fail.

EMR 493B – Cardiac Arrest, Resuscitation & Reperfusion SSM (3 units)

Starting Spring Quarter 2025, this course is no longer offered.

Course Description: Special Studies Module, a four-week course specific to the topics of Cardiac Arrest, Resuscitation & Reperfusion.

Prerequisite(s): Consent of instructor.

Learning Activities: Lecture 5 hour(s), Lecture/Lab 10 hour(s), Laboratory 16 hour(s), Clinical Activity 4 hour(s).

Enrollment Restriction(s): Restricted to UC Davis School of Medicine students only.

Grade Mode: Honors/Pass/Fail.

EMR 499 – Research (2-18 units)

Course Description: Elective where topics may be selected in either basic or clinical research areas of Emergency and/or Critical Care Medicine.

The goals will be tailored to each individual student. Enrollment requires prior discussion and consent of instructor.

Prerequisite(s): Consent of instructor.

Learning Activities: Laboratory.

Grade Mode: Honors/Pass/Fail.