

UNIVERSITY OF COLORADO SCHOOL OF MEDICINE FOURTH YEAR ELECTIVES FOR FOREIGN MEDICAL STUDENTS

University of Colorado medical students receive first priority in registering for clinical elective rotations. If there is space available, medical students from other medical schools who have completed their required third year core clerkships are welcome to apply as externs for sub-internships and other electives. Such externs must meet the usual course prerequisites.

Courses below are available to foreign medical students and require sponsorship of a University of Colorado faculty member. A passing USMLE step 1 score is required as well as if offered an elective an administrative fee of \$4,000. All other requirements of US visiting medical students also apply.

ALL ELECTIVES ARE FOUR WEEKS IN LENGTH

ANESTHESIOLOGY ELECTIVES

ANES 8000 [Clinical Anesthesiology](#)

Students will work one-on-one with anesthesia faculty and residents to gain further practical experience in all aspects of peri-operative care; improving skills gained in the third year and developing a deeper understanding of the breadth of anesthetic practice.

ANES 8001 [Surgery Intensive Care](#)

During this Sub-I multi disciplinary rotation, students actively participate in patient management, perform procedures, present clinical topics, discuss pathophysiology of the critically ill. Clinical excellence and an in-depth paper (2000-2500 words) are honors grade requirements.

ANES 8002 [Anes Subspecialties](#)

Prerequisites: Anesthesiology

Course exposes students to subspecialty areas in Anesthesiology. Students will attain additional experience in selected areas of anesthetic practice. Options include Acute and Chronic Pain, L & D, Cardiothoracics, Neurosurgery, Transplants and Pre-Anesthesia Testing.

DERMATOLOGY ELECTIVES

DERM 8000 [Clinical Dermatology](#)

This course is designed to provide a broad overview of medical, surgical and pediatric dermatology. Students will become familiar with the differential diagnosis and treatment of common skin disease, and procedural dermatology including skin biopsies and cryosurgery.

EMERGENCY MEDICINE DEPARTMENT

EMED 8000 [Clinical Toxicology](#)

Introduction to medical toxicology at Rocky Mountain Poison and Drug Center. Participation in clinical service, inpatient consultative care at DHMC/UH. Conferences and didactic instruction provided weekly. Short presentations required. Exposed to fundamentals of environmental toxicology, public health concerns, occupational toxicology.

FAMILY MEDICINE ELECTIVES

FMMD 8002 [Family Med Subinternship](#)

Experience CU Family Medicine! Students will be members of the inpatient service team at the Anschutz Inpatient Pavilion, take call, and will spend 2 half days per week at the A.F. Williams Family Medicine Center (outpatient clinic).

FMMD 8007 [Out-Patient Family Med](#)

Course is an outpatient family medicine at A.F. Williams Family Medicine Center and Denver Health's Lowry Family Medicine Clinic. Multidisciplinary faculty including pharmacologists, behavioral scientist, and experienced family physicians and residents caring for a diverse group of patients.

MEDICINE ELECTIVES

MEDS 8001 [Medicine Subinternship](#)

The sub-intern functions as an intern and is responsible for the admission, evaluation, and continuing care of patients under the supervision of a Resident and an Attending. Sub-internships are offered at DHMC, P/SL, ESJH, UCH and VAMC.

MEDS 8003 [Transfusion Medicine](#)

Prerequisites: Initial clinical rotations completed in medicine, surgery, and pediatrics.

This course is a comprehensive study of transfusion medicine, pre-transfusion testing, component preparation and storage, donor selection and testing, inventory control and blood administration. Independent study and research encouraged.

MEDS 8010 [Pulmonary](#)

This elective offers broad experience in pulmonary and critical care medicine. Students participate in consultations, attend conferences and clinics. A wide variety of pulmonary and critical care cases are seen.. Hospital is assigned.

MEDS 8013 [Endocrinology](#)

Introduction to evaluation and management of endocrine disorders via outpatient clinics and inpatient consults at VAMC, DHMC, UCH. Endocrine-focused history-taking and physical examination with a complete problem-oriented approach to patient care. Multiple conferences and close interaction with fellows and attendings.

MEDS 8022 [Disability Medicine](#)

This course addresses the unique considerations and challenges of providing quality health care to individuals with disabilities throughout their lifespan. While the primary focus is intellectual and developmental disabilities, the student will also gain exposure to other chronic conditions.

MEDS 8025 [Medical Oncology](#)

Students will learn the basic aspects of medical oncology by evaluation of patients in the general oncology, breast, lung cancer, prostate, melanoma, leukemia and lymphoma clinics. They will attend the weekly multi-disciplinary tumor conferences.

MEDS 8026 [Medical Oncology Sub I](#)

This elective is a sub-internship on the oncology unit of University Hospital. The student will function as an intern, admitting and evaluating patients. Teaching rounds will be on a daily basis with residents, oncology fellows and an attending physician.

MEDS 8029 [Applied Clin Pharmacology](#)

This course provides fourth year medical students with a practical approach to the pharmacologic treatment of common clinical conditions. There will be three 1-hour lectures each day, ten additional hours of independent study per week, and a final examination.

MEDS 8037 [Sub I Critical Care UH](#)

The critical care sub-internship will provide training in the care of critically ill ICU patients. Emphasized skills will include management of respiratory failure, hemodynamic instability, severe electrolyte abnormalities, gastrointestinal emergencies and common ICU procedures.

MEDS 8039 [Aids and American Culture](#)

This course approaches HIV/AIDS as a biomedical, social, political and creative phenomenon. We will investigate the discourse and images of AIDS in journalistic writing, autobiography, fiction, poetry, film, television and photography..

MEDS 8040 [Film and Mental Illness](#)

There is a well-documented relationship between movies and psychiatry. Just how accurate are film depictions of psychiatric conditions and how have cinematic representations shaped our personal responses, cultural beliefs, and social policies regarding the mentally ill?

MEDS 8600 [Research in Medicine](#)

Course provides an opportunity for seniors to participate in research at the clinical or basic science level. The student must consult with Dr. Horwitz or Dr. Aagaard about the varieties of options available. Course is graded on a pass/fail basis only.

NEUROLOGY ELECTIVES

None available to foreign medical students

NEUROSURGERY ELECTIVES

NSUR 8014 [Neurosurgery Sub I](#)

Intensive rotation emphasizing care and management of neurosurgical patients, with close patient responsibility. Weekly conferences and lectures required and students must present a case with topic discussion. Recommended for students with interests in neurosurgery, neurology, emergency medicine and trauma surgery.

NSUR 8600 [Research in Neurosurgery](#)

Prerequisites: Departmental approval must be obtained and all arrangements made at least one month in advance.

OBSTETRICS AND GYNECOLOGY ELECTIVES

None available to foreign medical students

OPHTHALMOLOGY ELECTIVES

None available to foreign medical students

ORTHOPEDIC ELECTIVES

None available to foreign medical students

OTOLARYNGOLOGY ELECTIVES

None available to foreign medical students

PATHOLOGY ELECTIVES

PATH 8000 [Pathology](#)

The Department assigns hospital by interests of the student. Anatomic pathology includes autopsy, surgical pathology, hematopathology and cytology. Clinical pathology includes clinical chemistry, microbiology, coagulation/blood banking and molecular diagnosis. Intended for those interested in clinical medicine, especially a pathology career.

PATH 8001 [Laboratory Medicine](#)

This lecture-based elective rotation provides senior medical students with an overview of Clinical Pathology and laboratory testing. It reviews the scientific concepts on which laboratory tests are based and emphasizes approaches to the ordering, interpretation, and pitfalls of laboratory tests. The course grade is based on written examinations. Course offered Section 17 only (September).

PEDIATRIC ELECTIVES

PEDS 8000 [Pediatric Subinternship](#)

Restrictions: A 2-month advance notice is required to drop this course.

Designed for those students who are interested in further training in pediatrics. Students will be integrated as a functional member of a pediatric ward team.

PEDS 8004 [Pediatric Cardiology](#)

Evaluation of children with heart disease by history, physical examination, electrocardiography, roentgenography, echocardiography, and cardiac catheterization will be stressed. The student will make rounds with the cardiology team, see consults, attend outpatient clinics, and participate in cardiac catheterizations and conferences.

PEDS 8006 [Immunology and Allergy](#)

Students participate in the care of outpatients at National Jewish, attend lectures, rounds and conferences.

Opportunities provided to observe laboratory procedures in immunology and pulmonary physiology laboratories.

PEDS 8008 [Birth Defects/ Genetics](#)

Rotation includes experience in the General Genetics, Inherited Metabolic Diseases, Muscle, Neurocutaneous and outreach clinics. Students will participate in diagnosis, pedigree assessment and management. Students will participate in consultations with faculty, attend conferences, visit laboratories; an oral presentation is required.

PEDS 8009 [Peds Infectious Disease](#)

This course provides experience in the pathophysiology, diagnosis, and therapy of childhood infections. Students evaluate inpatients and present cases at daily teaching rounds. Experience in the diagnostic Microbiology laboratory is provided. There is a weekly HIV/infectious diseases clinic.

PEDS 8011 [Peds Pulmonary Disease](#)

Basic background knowledge in pediatric pulmonary physiology and disease will be provided. The student will attend rounds, clinics, and weekly conferences and participate in hospital consultations. Students will be expected to present a seminar/case discussion on a pediatric pulmonary topic.

PEDS 8012 [Pediatric Neurology](#)

Child Neurology provides students with the opportunity to gain experience evaluating children with a wide variety of neurological problems. Students will round on hospital and clinic patients, complete assigned readings and attend Neurology grand rounds.

PEDS 8013 [Pediatric Endocrinology](#)

A large variety of patients with abnormalities of growth and pubertal development, thyroid disorders, and diabetes mellitus are reviewed and treated each week. Seminars on selected topics are scheduled three times per week.

PEDS 8024 Child Development/Behavior

Medical students will participate in the medical assessment and treatment of children with developmental and behavioral problems. They will attend lectures, participate in the seminars, and observe multidisciplinary assessments of children with developmental disorders.

PEDS 8027 Pediatric Intensive Care

The sub-intern is responsible for evaluation and continuing care of patients under the supervision of a Fellow and Attending. The student will learn basic pathophysiology of critical illness and enhance skills in reporting and interpreting clinical data, and patient management.

PHYSICAL MEDICINE AND REHABILITATION ELECTIVES

PHMD 8000 Physical Med & Rehab

This elective provides experience in the diagnosis and treatment of patients with pathology of the neurologic and musculoskeletal systems. 4 different locations (VA, Denver Health, University Hospital, The Children's Hospital) allow treatment of a variety of conditions related to rehabilitation.

PHMD 8600 Research Physical Med

Prerequisite: PHMD 8000. Obtain departmental approval and all arrangements made at least one month in advance and prior approval from Associate Dean for Student Affairs.

Written evaluation must be sent by individual instructor, with course director responsible for final grade.

PREVENTIVE MEDICINE ELECTIVES

PRMD 8006 Dir Study Ethics/Humanit

Selected students may participate in directed scholarly work in Bioethics and Medical Humanities with specific faculty members. Opportunities such as directed literature reviews, clinical research projects, curriculum development projects, and other scholarly activities are available.

PSYCHIATRY ELECTIVES

PSMY 8000 Sub I in Psychiatry

Student selects primary clinical focus. Direct patient care with appropriate supervision in a variety of settings: adult or child inpatient, adult outpatient, emergency and consultation psychiatry, or community psychiatry. Student presents at rounds and attends teaching conferences.

PSMY 8001 Prim. Care Subst. Probs

In treatment programs, experts' tutorials, and readings, students learn approaches to 6 common primary-care substance problems, such as addiction in pain disorders, pregnancy, smoking with tobacco-induced illness, and substance involved adolescents. Students write a paper on the 6 clinical problems.

PSMY 8002 Neuropsychiatry Elective

Behavioral Neurology & Neuropsychiatry Elective. The goal is to provide the student with exposure to physicians practicing as subspecialists in BN&NP, the clinical populations they serve, and a variety of clinical settings in which they practice.

PSMY 8003 Elective in Psychiatry

Students, in conjunction with the office of psychiatry medical student education, choose to work with patients on an inpatient psychiatry ward, outpatient clinic or other psychiatric units as a member of a treatment team.

PSMY 8004 Child & Adolescent Psychiatry

Evaluate and manage adolescents with psychiatric disorders. Students will be members of multidisciplinary team learning about psychopathology, psychopharmacology, psychotherapy, family therapy, and other treatment modalities. Students will learn about systems of care.

PSMY 8005 Clinical PSYM Geriatric

Students will actively participate in the care and evaluation of patients under the direction of the attending and participating resident. Common problems such as hematuria, proteinuria, electrolyte disturbances, chronic renal insufficiency, hypertension, hemodialysis, peritoneal dialysis, and renal transplantation are addressed.

PSMY 8006 Clinical PSYM C/L

Consultation-Liaison Psychiatry a unique discipline within the field of psychiatry which combines knowledge of medical illnesses, psychotherapy and psychopharmacology with an ability to forge liaisons within the medical community. Evaluate and help manage patients with psychiatric disorders within medical settings.

PSMY 8007 Clinical PSYM Emer Services

Learn the essentials of identification, assessment, and treatment of patients with substance use disorders. Emphasis on screening and brief intervention techniques. Learn principles of detoxification for alcohol, opioids, and cocaine; interpretation of drug testing results; proper prescribing practices.

PSMY 8008 Clinical PSYM Forensic

Introduction to the interface of criminal law and psychiatry. Students will be involved in the evaluation of people entering pleas of incompetency to stand trial and not guilty by reason of insanity as well as the treatment and restoration process.

PSMY 8009 [Clinical PSYM Addiction](#)

Learn the essentials of identification, assessment, and treatment of patients with substance use disorders. Emphasis on screening and brief intervention techniques. Learn principles of detoxification for alcohol, opioids, and cocaine; interpretation of drug testing results; proper prescribing practices.

PSMY 8010 [Clinical PSYM Eating Disorders](#)

Evaluate and manage patients with eating disorders under the direction of fellows and attendings. Student will gain specific knowledge of classification, epidemiology, etiology, physiology and treatment of eating disorders.

RADIOLOGY ELECTIVES

RADI 8000 [Diagnostic Radiology](#)

An introduction to the interpretation of images and the role of diagnostic imaging in patient care. Clinical observation, lectures, and independent study at UH/AOP. Only 2 days of absence permitted for any reason.

RADI 8002 [Nuclear Medicine](#)

Nuclear Medicine encompasses the various uses of radioactive compounds in medical diagnosis and therapy. Students participate in the supervision and interpretation of nuclear medicine procedures under the guidance of the staff/residents at the AOP. Students will attend daily conferences.

RADI 8600 [Research in Radiology](#)

Student must submit a research project description and the name of their preceptor to the course director prior to the start of the elective. Student is responsible for obtaining written evaluation.

RADIATION ONCOLOGY ELECTIVES

RAON 8005 [Radiation Oncology](#)

The student will learn the basic tools and techniques of radiation oncology, evaluate patients before and after treatment, learn specialized exam techniques, participate in consultations and multi-modality cancer treatment planning. Students will attend and participate in multidisciplinary tumor conferences.

RAON 8005 [Research in Radiation Oncology](#)

Student must submit a research project description and the name of their preceptor to the course director prior to the start of the elective. Student is responsible for obtaining written evaluation.

SURGERY ELECTIVES

SURG 8000 [Gen Surg Sub I Univ Hosp](#)

Students perform intern responsibilities on General Surgical Service at University of Colorado Hospital. Students alternate night call, write orders on assigned patients, and participate in preoperative, operative and postoperative care of inpatients.

SURG 8001 [Gen Surg Sub I DHMC](#)

Join an Acute Care Surgery Team at a Level I Trauma Center. Course emphasizes pre-operative evaluation, operating room decisions and postoperative care outside the ICU. Student will attend clinics, rounds, conferences and surgical procedures.

SURG 8008 [Cardiothoracic Surg Sub](#)

Adult cardiac and general thoracic surgery and critical care monitoring on the Cardiothoracic Service at UH and Denver VAMC. Students will participate in preoperative, operative and postoperative care.

SURG 8010 [Burn Critical Care/Surg](#)

Acting sub-intern on Burn Service, working with Burn and related Surgical Critical Care cases. A high level of patient care responsibility, including bedside procedures, burn care and line charges. Work with attending faculty, and gain a multidisciplinary approach to burns.

SURG 8011 [Hand Surgery](#)

The students will participate in all aspects of the hand service including the emergency room, outpatient clinics, inpatient/outpatient operative and non-operative treatment. Emphasis is on acute hand and upper extremity diseases, trauma, their treatment and rehabilitation.

SURG 8015 [Pediatric Surgery](#)

Student will assume major clinical responsibility for pediatric surgical patients, will work with housestaff, share patient care and work-ups, act as liaison to families, attend operations and teaching conferences, and actively participate in the surgical management of infants and children.

SURG 8021 [Surgical Critical Care](#)

Assigned to surgical ICU, work with critical care residents, fellow and staff. Students gain experience in resuscitation, hemodynamic monitoring, mechanical ventilation, nutritional support, bedside ultrasound and all aspects in care of critically ill surgical patients.