

University of Colorado, School of Medicine  
2017-2018 Academic Year

PHASE I – REQUIRED CURRICULUM FALL SEMESTER 2016

**IDPT 5000 [Foundations Doctoring I](#)**

**[2.0 cr.](#)**

The course is designed to expose students to basic clinical skills necessary for physicians. Each week, students spend one afternoon either learning communication/physical exam skills/professionalism on campus or practicing their clinical skills with a preceptor off campus.

**IDPT 5001 [Human Body](#)**

**[7.0 cr.](#)**

Human Body covers the anatomy and embryology of the back, extremities, trunk, head and neck. Students will dissect cadavers and study computer generated cross-sections, reconstructions and radiological images. Clinical case discussions will be integrated with physical exam material.

**IDPT 5002 [Molecules to Medicine](#)**

**[8.0 cr.](#)**

Molecules to medicine is an integrated approach to cell biology, biochemistry, molecular biology and human genetics presented in a context that emphasizes clinical issues.

**IDPT 5090 [Mentored Scholarship I](#)**

**[1.0 cr.](#)**

A four year requirement for students to pursue and complete a mentored scholarly project and a capstone presentation. Project can be in one of the following thematic areas: basic and clinical research; epidemiology and public health; humanities and social sciences.

**IDPT 5095 [Research Track Phase I](#)**

**[1.0 cr.](#)**

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students complete training in citation manager software and initiate mentor-guided research.

PHASE I – REQUIRED CURRICULUM SPRING SEMESTER 2016

**IDPT 5000 [Foundations Doctoring I](#)**

**[2.0 cr. /Sem.](#)**

Course is a continuation of the fall semester course.

**IDPT 5003 [Blood and Lymph](#)**

**[4.0 cr.](#)**

Blood and Lymph covers the basic and clinical concepts underlying immunology, hematology, rheumatology, and malignancies of the blood. Histology, genetics, biochemistry, and ethical issues are integrated into the course concepts. Contact hours are divided equally between lecture and discussion groups.

**IDPT 5004 [Disease and Defense](#)**

**[5.0 cr.](#)**

Course covers principles of biometrics, pharmacology, pathology and infectious disease. Topics include mechanisms of tissue damage and repair. Dermatology is presented as an "Organ System", including structural and function, pathology, pathophysiology and pharmacology.

**IDPT 5005 [Cardiovascular/Pul/Renal](#)**

**[9.5 cr.](#)**

Course is an interdisciplinary approach to the cardiovascular, pulmonary, and renal systems, including anatomy, histology, physiology, pathophysiology, pathology, pharmacology, and development. Emphasis is on how the major organs work together to regulate blood pressure and fluid, electrolyte, and acid-base balance.

**IDPT 5090 [Mentored Scholarship I](#)**

**[1.0 cr.](#)**

A continuation of course begun in fall semester.

**IDPT 5095 [Research Track Phase I](#)**

**[1.0 cr.](#)**

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students complete training in citation manager software and initiate mentor-guided research.

**IPED 5001 [Interprofessional Education I](#)**

**[1.0 cr.](#)**

This course develops core competencies in teamwork and collaboration, values and ethics, and quality and safety for first-year health professions students. The course will be taught in a team-based format requiring individual preparation before each session followed by the application of that learning in through team-based activities.

PHASE II – REQUIRED CURRICULUM FALL SEMESTER 2016

**IDPT 6000 [Foundations Doctoring II](#)**

**[2.0 cr. /Sem.](#)**

This course is the second year of the longitudinal Foundations of Doctoring curriculum. Each week, students spend one afternoon either learning communication/physical exam skills/professionalism on campus or practicing their clinical skills with a preceptor off campus.

**IDPT 6001 [Nervous System](#)**

**[7.5 cr.](#)**

Course covers the gross and microscopic anatomy of the nervous system, basic neurobiology and neurophysiology, pharmacology, neuropathology, and basic neurologic and psychiatric examination skills. Emphasis is on the relationship between basic processes and functional systems to clinical phenomena and behavior.

**IDPT 6002 [Digest/Endo/Metaboli Sys](#)**

**[9.5 cr.](#)**

This interdisciplinary course integrates clinical and basic science topics related to the normal function and diseases of the gastrointestinal and endocrine systems. The biochemistry and physiology of nutrient metabolism in health and disease will also be covered.

**IDPT 6090 [Mentored Scholarship II](#)**

**[1.0 cr.](#)**

A four year requirement for students to pursue and complete a mentored scholarly project and a capstone presentation. Project can be in one of the following thematic areas: basic research, clinical research, epidemiology and public health, humanities and social sciences.

**IDPT 6094 [Master Degree Extended Study Course](#)**

**[1.0 cr.](#)**

**Prerequisites:** Successful completion of Phase 1 and Phase 2 of SOM curriculum. Department consent required.

A scholarly project approved by the Master's committee to act as a capstone for students obtaining the Master's in Medical Science degree. Department Consent Required.

**IDPT 6095 Research Track Phase II**

**1.0 cr.**

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students will demonstrate progress towards the completion of your research project and publicly communicate understanding of the project to others. Present WIP to peers and faculty in an oral presentation. Effectively respond to comments and questions from peers about your research efforts. Identify scientific questions when others present.

**IPED 6000 Interprofessional Education II**

**1.0 cr.**

The second of two required courses for health professions students on the Anschutz Medical Campus. This course continues to introduce content in 3 competency domains: teamwork/collaboration, values/ethics, and safety/quality. Students work in interprofessional teams and develop skills for collaborative practice. Prerequisite IPED 5000 .

**PHASE II – REQUIRED CURRICULUM FOR SPRING SEMESTER 2017**

**IDPT 6000 Foundations Doctoring II**

**2.0 cr. /Sem.**

This course is the second year of the longitudinal Foundations of Doctoring curriculum. Each week, students spend one afternoon either learning communication/physical exam skills/professionalism on campus or practicing their clinical skills with a preceptor off campus.

**IDPT 6003 Life Cycle**

**5.0 cr.**

Course provides an interdisciplinary approach to the normal biology and pathobiology of the male and female reproductive systems, reproduction and pregnancy, the fetus, newborn and child, aging, and end of life. Clinical cases and physical examination will be integrated throughout.

**IDPT 6004 Infectious Disease**

**4.5 cr.**

This course integrates microbiology, infectious diseases, and antimicrobial pharmacology. Content covers pathogenic microorganisms (bacteria, viruses, fungi, and parasites), host-pathogen interactions, microbial virulence determinants, host immune responses, signs and symptoms of disease presentation, epidemiology, laboratory diagnosis, prevention (vaccines) and therapy (antimicrobials).

**IDPT 6090 Mentored Scholarship II**

**1.0 cr.**

A four year requirement for students to pursue and complete a mentored scholarly project and a capstone presentation. Project can be in one of the following thematic areas: basic research, clinical research, epidemiology and public health, humanities and social sciences.

**IDPT 6095 Research Track Phase II**

**1.0 cr.**

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students will demonstrate progress towards the completion of your research project and publicly communicate understanding of the project to others. Present WIP to peers and faculty in an oral presentation. Effectively respond to comments and questions from peers about your research efforts. Identify scientific questions when others present.

**DERMATOLOGY ELECTIVE**

**DERM 6660 Career Elective in DERM**

**All Sems.**

**1.0 crs**

**Course Offerings:** Phase I students

**Type of Course:** Clinical

This course is designed to provide an introduction into the field of dermatology. Students will shadow a dermatologist in clinic to get an idea of the scope of practice in dermatology, which encompasses medical dermatology, surgery and dermatopathology.

**Course Schedule:** 4 half day clinics – M, T, W, TR, F from 7:30 am to Noon and T,W,TR 12:45pm – 5:00pm– no weekends or evenings.

**EMERGENCY MEDICINE ELECTIVES**

**EMED 6620 History of Pharmacology and Toxicology**

**Fall Sem.**

**1.0 cr.**

**Course Restrictions:** Phase II Medical Students only.

The objective of this course is to illustrate basic pharmacological and toxicological principles using case examples. The course will consist of a series of lectures that will use historical events to demonstrate basic toxicological and pharmacological principles and the clinical effects of poisons. For Phase II Medical Students only.

**EMED 6624 Intro Wilderness Med**

**Fall Sem.**

**1.0 cr.**

**Course Restrictions:** Must attend field day with Rocky Mountain Rescue in Boulder.

A didactic course meeting for one hour each week to review basics of wilderness and environmental medicine, including high altitude, hypothermia, frostbite, dive medicine, and expedition medicine.

**EMED 6626 [Pre-Hospital Medicine](#)****[Fall, Spring Sems.](#)****[1.0 cr.](#)****Course Schedule:** Two classroom meetings and one 10-hour ride along during the semester**Type of Course:** Clinical

The student will attend an intro lecture to orient them to the basic principles of prehospital care, EMS systems, and levels of care. The ambulance ride with the Denver Health Paramedic Division will be a 10-hour shift where they participate in all the calls the crews run. At the end of the course there will be a wrap up session where we will discuss their unique experiences and reflect on some of the things they have learned.

**EMED 6627 [Intro Emer Med & Trauma](#)****[Spring Sem.](#)****[1.0 cr.](#)**

Introduction to life-threatening conditions fundamental to emergency medicine. Focuses on the essentials of stabilization, rapid diagnosis, and acute management. Weekly lectures given by faculty from UCHSC and Denver Health. Pass-fail based on attendance with an optional write-up for honors.

**EMED 6628 [Flight Medicine](#)****[Fall, Spring Sems.](#)****[1.0 cr.](#)****Type of Course:** Clinical**Pre-requisite:** EMED 6626 Pre-Hospital Medicine.

The student will attend one lecture to orient them to the basic principles critical care transport and flight medicine as well as an extended orientation to the helicopter at St. Anthony's. During their 12-hour day with Flight for Life they will be part of the team of providers to respond to scenes or to other facilities for the transportation of critical patients. At the end of the course there will be a wrap-up session where we will discuss their unique experiences and reflect on what they have learned.

**Course Schedule:** Two classroom meetings and one 12-hour day with Flight for Life during the semester.**EMED 6629 [Emergency Med Skills](#)****[Fall, Spring Sems.](#)****[1.0 cr.](#)****Type of Course:** Clinical

This course provides 48 hours of clinical work with an EMED attending physician for the purpose of exposing the student to EMED and teaching procedural skills necessary for the basic clinical care in preparation for an international experience.

**Course Schedule:** 6-8 hour shifts scheduled individually with each student. After Human Body Block finishes-October 19, through Winter Break.**EMED 6630 [Emergency Med in South Africa](#)****[Summer Sems.](#)****[8.0 cr.](#)****Prerequisite:** Successful completion of EMED 6629.**Restriction:** Course Director Approval.

This is a 6 week experience. Students work in the Emergency Department of a public hospital in Cape Town, South Africa and contribute to ongoing research projects done in conjunction with Stellenbosch University.

<b>FAMILY MEDICINE ELECTIVES</b>
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**FMMD 6624 [Stout Street Health Center](#)****[Fall and Spring Sem.](#)****[1.0 cr.](#)****Course Restrictions:** A two-semester course, students must complete fall and spring semesters.

This course introduces students to healthcare of Denver's poor and homeless. Students will participate in patient care at the Stout Street Clinic on six Wednesday evenings throughout the school year. Participation in two additional volunteer outreach activities is also required.

**FMMD 6628 [Rural Track Elective](#)****[Fall and Spring Sems.](#)****[1.0 cr.](#)****Prerequisite:** Student must have been accepted in the Rural Track or have course director approval to add.**Course Restrictions:** A two-semester course, students must complete fall and spring semesters.

The course goal is to increase the number of students who eventually enter, and remain, in practice in rural Colorado. The track provides students with, mentorship, additional knowledge, broad skills and rural socialization experiences throughout the 4 years of school.

**FMMD 6630 [Summer Rural Track](#)****[Summer Sem.](#)****[8.0 crs.](#)****Type of Course:** Didactic**Course Restrictions:** For Rural Track Students Only.

The course goal is to increase the number of students who eventually enter, and remain, in practice in rural Colorado. The track provides students with, mentorship, additional knowledge, broad skills and rural socialization experiences throughout their 4 years of school.

**Course Schedule:** Wednesdays 1-3 p.m.

<b>INTERDEPARTMENTAL ELECTIVES</b>
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**IDPT 5091 [MSA Summer Elective](#)****[Summer Sem.](#)****[4.0 cr.](#)**

Students work intensively with mentors on their chosen MSA Project. Students critically review background literature, define a question/hypotheses, develop and implement methods and student design, collect data, analyze and interpret data, and submit written progress reports for their MSA project.

**IDPT 5096 [Summer Research Phase I Elective](#)****[Summer Sem.](#)****[1.0 cr.](#)**

This course is for students desiring to do research at CU or other institutions during the summer in between first and second year.

**IDPT 6612 [Critical Evidence Appraisal](#)****[Spring Sem.](#)****[1.0 cr.](#)****Prerequisite:** IDPT 5002 Molecules to Medicine.

Taught by your peers with graduate degrees in epidemiology, this clinical epidemiology course engages students in critical evidence review of current issues in medicine while solidifying and expanding upon core concepts essential for taking epidemiology from the journals to the bedside and the community.

**Course Schedule:** Class meets Mondays 12:00 Noon – 1:30 PM, January-March**IDPT 6613 [Culinary Medicine Elective](#)****[Fall and Spring Sems.](#)****[1.0 cr.](#)**

Medical students will work alongside culinary students in the kitchen for hands-on culinary and nutrition training. In addition to preparing recipes and discussing various aspects of the recipes, students will also complete modules, readings and discussions about a variety of nutrition topics and nutrition-related diseases.

**IDPT 6614 [Introduction to Clinical Ultrasound](#)****[Spring Sem.](#)****[1.0 cr.](#)**

Students will be introduced to ultrasound scanning techniques to perform four of the primary clinical ultrasound exams – gallbladder, heart, aorta, soft tissue/musculoskeletal. Online modules and hands-on practice will be used in the course.

**Course Schedule:** Four Wednesday afternoons from 3-5 p.m.

**IDPT 6619 [LGBT Health and Healthcare](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr.](#)**

The course provides health professional students the basic knowledge and skills to provide culturally responsive, clinically competent care to lesbian, gay, bisexual, and transgender (LGBT) patients.

**IDPT 6621 [Fun History of Medicine](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr.](#)**

During “History of Medicine for the 21st century: adding historical perspective to today’s medical practice”; students will acquire and apply historical knowledge to provide answers to clinical cases from different historical periods; in an interactive, fun and engaging learning environment.

**IDPT 6623 [Refugee and Immigrant Health I](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr.](#)**

Students will learn about the integration process that refugees go through and common medical and mental health diagnoses they receive. Discussions, panels, and lectures will aid in preparing the student for providing culturally effective medical care to any populations.

**Course Schedule:** 10-week course held spring semester, Wednesdays from noon to 1 pm.

**IDPT 6625 [Big Data Analytics in Healthcare, Research, & Education](#)**

**[Spring Sem.](#)**

**[2 cr.](#)**

This interactive seminar series will introduce the concepts of “big data” applied to research, health care and education. Participants will gain a basic understanding of this rapidly emerging field through discussion and exploration of examples and critical issues with campus analytics leaders.

**IDPT 6629 [SABES Spanish Immersion](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr](#)**

**Course requirements:** A two-semester course, students must complete fall and spring semesters. A one-time fee of \$30.00.

SABES is a student-led course that meets on campus, October through mid-March. Classroom sessions focus on improving vocabulary and grammar. There are 4 classes, to accommodate all ability levels. All students have the opportunity to practice taking medical histories with native Spanish speakers.

**IDPT 6630 [Spanish Interpretation](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr.](#)**

**Prerequisite:** Must pass proficiency exam or have successfully completed SABES course.

Students must have passed a screening competency exam prior to the course (proctored by the course instructors) or have successfully completed the Advanced SABES course. This course will equip students who have prior Spanish proficiency with vocabulary, skill, and ethical practices of Spanish medical interpretation. Students partake in a 10-week course, and if they successfully pass the certification exam, will interpret in the student-run DAWN Clinic.

**IDPT 6631 [Mindful Living: Practice of Purposeful and Non-Judgment](#)**

**[Fall Sem.](#)**

**[1.0 cr.](#)**

This course is designed to explore the meaning of mindfulness in everyday life by developing self-awareness, emotional resilience, appreciation of life, and a sense of well-being. Students participate in activities such as meditation, reflective journaling, discussion, and applying mindfulness to music, nature walks, and relationships.

**IDPT 6636 [Summer Preceptor Exp](#)**

**[Summer Sem.](#)**

**[1.0 cr.](#)**

**Course Restrictions:** Available summer semester only.

The Summer Preceptorship is a clinical elective designed for students between their first and second year of medical school. It may take place in the hospital or in a clinic one afternoon or morning a week during the summer semester.

**IDPT 6637 [LEADS 1](#)**

**[Spring Sem.](#)**

**[2.0 cr.](#)**

**Course Restrictions:** First Year/Phase 1 students only.

The course will include monthly seminars and be divided into four thematic sections. Seminar speakers are primarily engaged in leadership/advocacy work in health care. The themes will be further explored by case-based, small group sessions. Elective required for LEADS scholars.

**IDPT 6647 [LEADS 2](#)**

**[Fall Sem.](#)**

**[1.0 cr.](#)**

**Prerequisite:** IDPT6637 LEADS 1 – Spring Semester Elective.

**Course Restrictions:** Phase 2 students only. Students who wish to enroll without having completed the Spring course in Phase 1 may petition course director if space allows.

Advocacy and leadership skills applied in case-study.

**IDPT 6660 [Leadership Competencies for Physicians \(Essential Leadership\)](#)**

**[Fall and Spring Sems.](#)**

**[1.0 cr.](#)**

This course will engage current medical students in active learning of the knowledge, skills, attitudes and behaviors necessary for embracing conflict and ensuring success and happiness as a 21<sup>st</sup> Century physician leader. Students will learn how to improve their emotional intelligence and conflict management skills.

**IDPT 6665 [Intro to Global Health](#)****[Fall Sem.](#)****[1.0](#)****Course Restrictions:** None.

This course is required for ALL students interested in applying for Global Health Track and ALL students interested in doing an International Mentored Scholarly Activity. This course will give a broad overview of important issues in global health e.g., the HIV epidemic, maternal-child health, humanitarian assistance, clean water and sanitation, the Millennium Development Goals, the World Health Organization, ethics, and travel health and safety.

**IDPT 6667 [Global Health Studies \(US\)](#)****[Summer Sem.](#)****[10.0 crs](#)****Course Restrictions:** Course director approval required to add course.

Students and their faculty preceptors will develop a global health project focused on research, education, or community health service. After their project with a global health organization, students will provide a written report and an oral presentation of their project.

**IDPT 6668 [Global Health Study Abroad](#)****[Summer Sem.](#)****[10.0 crs](#)****Course Restrictions:** Course director approval required to add course.

Prior to travel, students and their faculty preceptors will develop a global health project focused on international research, education, or community health service. After their stay abroad, students will provide a written report and an oral presentation of their project.

**IDPT 6669 [Global Health Seminar](#)****[Spring Sem.](#)****[1.0 cr.](#)****Course Restrictions:** Course director approval required to add course.

This is a required course for Global Health Track students. This course will help students design and implement their global health projects by addressing the basics of project design, survey development, data collection and analysis.

**IDPT 6671 [Urban Underserved Care](#)****[Fall and Spring Sems.](#)****[1.0 cr.](#)****Course Restrictions:** Only for CU-UNITE/Urban Underserved Track students.

This course is for CU-UNITE Urban Track students only. It is an introduction to important issues in urban-underserved health care. Topics include: health disparities, mental health, substance abuse, and care of specific populations, such as homeless and refugee populations.

**IDPT 6672 [Urban Underserved Care 2](#)****[Fall and Spring Sems.](#)****[1.0 cr.](#)****Course Restrictions:** Only for CU-UNITE/Urban Underserved Track students.

This CU-UNITE required elective is an advanced course regarding issues in urban underserved health care. Topics: Procedural skills development, an interdisciplinary service learning project in the community, discussion of personal qualities needed for serving urban, underserved populations and provider wellness.

**IDPT 6673 [CU-UNITE Span Immersion](#)****[Summer Sem.](#)****[1.0 cr.](#)****Course Restrictions:** Only CU-UNITE Track Students accepted.

CU-UNITE Spanish Immersion Track students only. This is a 4 week summer experience between Phase I and II in Costa Rica during which students will experience immersion in Spanish language and have clinical and community exposure.

<b>MEDICINE ELECTIVES</b>
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**MEDS 6050 [Mission Medical Clinic – Colorado Springs](#)****[All Sems.](#)****[2.0 cr.](#)**

Learn about healthcare for vulnerable patients in Southern Colorado via volunteerism at Mission Medical Clinic, a “free clinic” in Colorado Springs. Students will serve as volunteer clinicians providing mentored primary care to adults lacking medical insurance.

**MEDS 6620 [Bioethics, Medicine, & Health](#)****[Spring Sem.](#)****[2.0 cr.](#)**

The course explores key problems of bioethics in medicine & health. Moral frameworks will be discussed and critiqued via an engaging, seminar-style format. The emphasis is on practical application to real-life cases via critical reading, writing, and discussion.

**MEDS 6621 [Geriatric Medicine](#)****[Spring Sem.](#)****[2.0 cr.](#)**

Aging in America, exposure to geriatric health care ranging from prevention among healthy community dwelling elderly to hospice care for terminally ill in nursing homes. Students contact the Course Coordinator, Andrea Chisel two weeks prior to starting the elective. **(Students are required to contact the course coordinator the day they register, 303-393-2822)**

**MEDS 6625 [Integrative Medicine – Our Patients, Ourselves](#)****[All sems.](#)****[2.0 cr.](#)**

Through expert guest presentations and class participation, you will become familiar with a wide variety of healing modalities that define Integrative Medicine. In the process, you will acquire the skills of wellness for both yourself and your patients.

**MEDS 6626 [Molecular Biology Cancer](#)****[Fall Sem.](#)****[1.0 cr.](#)**

Provides an overview of molecular events that occur in the cell that relate to the origins of neoplasia. Provides students the ability to understand/ interpret literature and an appreciation of how biology impinges on the practical treatment of cancer.

**MEDS 6629 [The Healer’s Art](#)****[Spring Sem.](#)****[1.0 cr.](#)****Course Restrictions:** Phase I and II students.

The Healer’s Art is a 5 session elective that engages students in a discussion focusing on the meaning of physicianhood and the practice of medicine. The course facilitates students in clarifying, strengthening, and making a personal commitment to medicine.

**MEDS 6632 [Lit. Art. & Medicine](#)****[Fall Sem.](#)****[1.0 cr.](#)**

Medical students rarely have the opportunity to discuss medicine from the viewpoints provided by literature and the arts. Reading imaginative writing, examining visual images, and writing their own narratives help students interpret the experiences of their patients and colleagues.

Class will be held 12:00 Noon – 2:00 PM, Wednesday

## OPHTHALMOLOGY ELECTIVE

### OPHT 6610 [Biology of the Eye](#)

[Fall Sem.](#)

[1.0 cr.](#)

This course introduces contemporary topics in vision science and ophthalmology. It integrates basic science and clinical science of diseases that affect the eye.

## ORTHOPEDIC ELECTIVE

### ORTH 6620 [Intro to Orthopedics](#)

[Spring Sem.](#)

[1.0 cr.](#)

**Course Requirement:** Must contact Course Director or Coordinator to arrange schedule after adding this elective.

This course covers an overview of orthopedic surgery. Interactive lectures include musculoskeletal oncology, reconstructive surgery, trauma, sports medicine, spine surgery, hand surgery, and primary care orthopedics. Students will also shadow an orthopedic surgeon during clinic and surgery on four afternoons.

## OTOLARYNGOLOGY ELECTIVE

### OTOL 6660 [Career Elective in OTOL](#)

[All Sems.](#)

[1.0 cr.](#)

**Course Requirement:** Must contact Course Director or Coordinator to arrange schedule after adding this elective.

The Career Elective in Otolaryngology – Head & Neck Surgery will provide diverse sub-specialty clinical and operative exposure with physician specialists who diagnose and treat disorders of the ears, nose, throat and related structures of the head and neck. Students will also shadow an otolaryngology surgeon during clinic and surgery on four mornings or afternoons.

## PEDIATRIC ELECTIVES

### PEDS 6622 [Diabetes Mellitus](#)

[Summer Sem.](#)

[3.0 cr.](#)

**Course Requirement:** Must contact instructor immediately to complete application for diabetes camp.

The students will spend 1 week at diabetes camp where they will learn about diabetes and children. Before and after camp, time will be spent at the Barbara Davis Center clinic. Clinical research projects may be developed if interested.

### PEDS 6623 [Warren Village Clinic](#)

[All Sems.](#)

[1.0 cr.](#)

An opportunity for Phase I and II students to participate in a pediatric clinic. Students will provide well-care and minor acute illness care for children. Students are required to attend an orientation and three to four Wednesday evening clinics.

## PSYCHIATRY ELECTIVES

### PSYM 6620 [PSCH in Great Literature](#)

[Fall and Spring Sems.](#)

[2.0 cr.](#)

**Course Requirement:** This is a two semester course. Students must complete both fall and spring semesters. Discussions will take place once a month on a Monday evening at 7:00 PM.

Writers, the first thinkers to understand the "whole man," took into account his unconscious. We'll illustrate this as reflected in normal development and personality formation, symbolization, fantasy and psychopathology using the characters and texts from Great Literature.

### PSYM 6626 [Intro to Emergency Psch](#)

[Fall and Spring Sem.](#)

[1.0 cr.](#)

Students will learn basics of emergency evaluation with particular focus on suicide, homicide, child abuse, spouse abuse, and incest. Students will see emergency psychiatric consultations with residents, staff or faculty.

### PSYM 6632 [Denver CARES Elective](#)

[Fall and Spring Sems.](#)

[1.0 cr.](#)

In this course students will gain confidence in performing basic H&P skills while interacting with acutely ill patients in a detox facility. Requirements include volunteering a minimum of two shifts, as well as attending the orientation and debriefing sessions.

### PSYM 6633 [SUD in Medical Practice](#)

[Fall and Spring Sems.](#)

[1.0 cr.](#)

Students will learn basic identification, assessment and treatment of substance abuse disorders through clinical experience, reading, and seminars. Will evaluate patients in 2 afternoon clinics (adolescent and adult treatment program) and 2 seminars. Core reading will supplement clinical experience.

## SURGERY ELECTIVE

### SURG 6660 [Career Elective In UROL](#)

[All Sems.](#)

[1.0 cr.](#)

**Course Requirement:** Must contact Course Director or Coordinator within the first two weeks of the course to arrange schedule after adding this elective.

Students will be exposed to the diverse spectrum of urologic practice through shadowing residents and attendings in clinic and observation in the OR. Students will attend 2-3 urology outpatient clinics held at the VA on Wed and Fri afternoons and one half or full day in the VA OR (Mon, Tues or Thurs). They will be exposed to the diverse spectrum of urologic practice through shadowing residents and attendings in clinic and observation in the OR.

**PHASE 3 REQUIRED CLINICAL CLERKSHIPS FOR 2016-2017**

Required clinical clerkships are open only to University of Colorado Medical Students.

<b>IDPT 7000</b>	<b><u><a href="#">Foundations Doctoring III</a></u></b>	<b><u><a href="#">All Sems</a></u></b>	<b><u><a href="#">Var.cr.</a></u></b>
This course is the third year of the longitudinal Foundations curriculum. Students spend one afternoon, 2-3 times a month in the office of a generalist or specialist physician. Credit hours by semester = 0.5 summer, 1.0 fall, 1.0 spring.			
<b>IDPT 7001</b>	<b><u><a href="#">Integrated Clinicians I</a></u></b>	<b><u><a href="#">Spring Sem.</a></u></b>	<b><u><a href="#">2.0 crs.</a></u></b>
Course offered spring semester prior to beginning Phase III clerkship blocks. The course is designed to assist with the transition to the clerkship blocks. Course material will provide students with reinforcement of the fundamental physical exam and presentation skills and important information about the clinical courses.			
<b>IDPT 7002</b>	<b><u><a href="#">Integrated Clinicians II</a></u></b>	<b><u><a href="#">Fall Sem.</a></u></b>	<b><u><a href="#">2.0 crs.</a></u></b>
Through didactic and small group sessions, the course will teach advanced clinical skills, translational basic science, and thread material that is vital to doctoring, but underrepresented in the clinical blocks.			
<b>IDPT 7003</b>	<b><u><a href="#">Integrated Clinicians III</a></u></b>	<b><u><a href="#">Spring Sem.</a></u></b>	<b><u><a href="#">4.0 crs.</a></u></b>
Course offered spring semester end of Phase III clerkship. Through didactic and small group sessions, the course will teach advanced clinical skills, translational basic science, and thread material that is vital to doctoring, but underrepresented in the clinical blocks. Students will also learn critical skills for successful completion of sub-internships and critical care experiences. 2 weeks.			
<b>IDPT 7010</b>	<b><u><a href="#">Hospitalized Adult Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">16.0 crs.</a></u></b>
Eight week block focused on the care of the adult inpatient. Students are assigned to two sites, each for 4 weeks: University of Colorado Hospital, Denver Health, Presbyterian St. Luke's, Veterans Affairs Medical Center, Exempla, St. Joseph's, Rose Medical Center.			
<b>IDPT 7012</b>	<b><u><a href="#">Longitudinal Integrated Clerkship</a></u></b>	<b><u><a href="#">All Sems</a></u></b>	<b><u><a href="#">2 crs.</a></u></b>
This is a multidisciplinary course required of students participating in the LIC. Focus will be on group learning, community involvement, and provision of health care to an urban underserved population. Department Consent Required.			
<b>IDPT 7013</b>	<b><u><a href="#">Longitudinal Integrated Medicine</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">4-6 crs.</a></u></b>
This course introduces adult medicine with emphasis on acute illness, chronic disease management, and preventive care. Students will combine inpatient and ambulatory experiences. Department Consent Required.			
<b>IDPT 7020</b>	<b><u><a href="#">Infant/Adolescent Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">12.0 crs.</a></u></b>
This block introduces clinical objectives to achieve competency in pediatric medicine, emphasizing illness and wellness of children and families, growth, development, physical and mental well-being. Students combine hospital and ambulatory experiences in Denver and other Colorado communities.			
<b>IDPT 7021</b>	<b><u><a href="#">Musculoskeletal Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">4.0 crs.</a></u></b>
This block combines physical medicine and rehabilitation, Orthopedics, Rheumatology, basic science, and thread topics to develop competency in history and physical exam skills and the use of laboratory data and basic imaging studies to diagnose, treat and prevent abnormalities of the musculoskeletal system.			
<b>IDPT 7022</b>	<b><u><a href="#">Longitudinal Pediatrics (LIC)</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">2-4 crs.</a></u></b>
This course introduces pediatric medicine, emphasizing illness and wellness of children and families, growth, development, physical and mental well-being. Students combine inpatient, nursery, and ambulatory experiences. Department Consent Required			
<b>IDPT 7030</b>	<b><u><a href="#">Women and Newborn Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">12.0 crs.</a></u></b>
Students will work in OB/GYN clinics, labor and delivery, OB and GYN wards, and the O.R. They will learn a newborn exam and fundamentals of newborn care. Course offered at University Hospital, Denver Health Medical Center or an AHEC site.			
<b>IDPT 7031</b>	<b><u><a href="#">Emergency Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">4.0 crs.</a></u></b>
An introduction to the initial evaluation and management of emergently presenting problems in adults and children. Emphasis on recognition, differential diagnosis, and stabilization of shock and trauma. Students will also be exposed to pre-hospital care and concepts of triage.			
<b>IDPT 7032</b>	<b><u><a href="#">Hospitalized Adult Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">16.0 crs</a></u></b>
This course focuses on care of women in OB/GYN clinics, labor and delivery, OB and GYN wards, and the operating room. Additionally, students will learn a newborn exam and fundamentals of newborn care. Department Consent Required.			
<b>IDPT 7033</b>	<b><u><a href="#">Longitudinal Emergency Med (LIC)</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">.5 crs</a></u></b>
This course will provide an introduction to the initial evaluation and management of emergently presenting problems in adults and children. Emphasis will be on disease recognition, differential diagnosis, and stabilization of shock and trauma, as well as pre-hospital care and concepts of triage. Department Consent Required.			
<b>IDPT 7040</b>	<b><u><a href="#">Psychiatric Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">8.0 crs.</a></u></b>
Students will work closely with attendings and residents to care for adults and/or children. Students have a choice of twelve (12) unique clinical settings including emergency department, consult service, inpatient and outpatient.			
<b>IDPT 7041</b>	<b><u><a href="#">Neurologic Care</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">8.0 crs</a></u></b>
Students will participate in the diagnosis and treatment of patients with a wide variety of acute and chronic neurologic disorders. Formal teaching is provided in Attending Rounds, student seminars, resident seminars and departmental Grand Rounds.			
<b>IDPT 7042</b>	<b><u><a href="#">Longitudinal Psychiatry (LIC)</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">2-4 crs.</a></u></b>
This course will focus on psychiatric care of adults and children. Clinical experiences will include ambulatory settings, inpatient units, psychiatric emergency room, consults, and psychiatric specialties. Department consent required.			
<b>IDPT 7043</b>	<b><u><a href="#">Longitudinal Neurology (LIC)</a></u></b>	<b><u><a href="#">All Sems.</a></u></b>	<b><u><a href="#">2-4 crs.</a></u></b>

This course focuses on the diagnosis and treatment of patients with a wide variety of acute and chronic neurologic disorders. Students will participate in inpatient and ambulatory care settings. Department Consent Required.

**IDPT 7050 Peri/Operative Care**

All Sems.

16.0 crs.

While gaining experience in surgery and anesthesiology, students study surgical diseases and participate in the operative care and delivery of anesthesia during the perioperative period. Assessment and management of common inpatient and ambulatory procedures are emphasized from initial patient referral to discharge.

**IDPT 7052 Longitudinal Surgery/Anesthesia (LIC)**

All Sems.

4 crs.

This course focuses on surgical diseases. Students will participate in operative care and delivery of anesthesia. Assessment and management of common inpatient and ambulatory procedures are emphasized from initial patient referral to discharge. Students will combine ambulatory, inpatient and operating room experiences. Department Consent Required.

**IDPT 7060 Adult Ambulatory Care**

All Sems.

8.0 crs.

Course focus is chronic care of adults, including outpatient experiences and planned didactics. Student paired with primary care preceptor and will have experiences in subspecialty clinics using the chronic care model.

**IDPT 7061 Rural and Community Care**

All Sems.

8.0 crs.

An interdisciplinary clerkship where students will participate in provision of comprehensive patient-centered primary care in rural and semi-rural communities. Longitudinal acute and chronic disease management, prevention and health behavioral change will be emphasized.

**IDPT 7062 Longitudinal Family Medicine (LIC)**

All Sems.

2-4 crs.

This course focuses on chronic ambulatory care of adults and children. Students will participate in the provision of comprehensive patient-centered primary care to underserved communities and will focus on longitudinal acute and chronic disease management, prevention and health behavioral change. Department Consent Required.

**IDPT 7063 Longitudinal Family Medicine Community (LIC)**

All Sems.

2-4 crs.

Students will learn the basics of primary care for adults and children provided in a family medicine setting in the community setting. Students work with a Family Medicine preceptor once per week throughout the LIC.

**IDPT 7064 Longitudinal Outpatient (LIC)**

Spring Sem.

2-4 crs.

This experience will help students develop and advance an appreciation of the unequivocal value of adult Primary Care as an integral part of any well-functioning health system. Students work with an Internal Medicine preceptor once per week throughout the LIC.

**IDPT 7065 Longitudinal Inpatient (LIC)**

All Sems.

4 crs.

The goals of this exp are to allow students to build a strong foundation in the care of hospitalized adult patients and gain familiarity with the inpatient Med service and culture so they can easily navigate follow-up of patients later in the year who are admitted. Experience is centered on 4 dedicated inpatient weeks and inpatient rounds.

**IDPT 7080 Integrated Longitudinal Medicine Clerkship**

All Sems.

16 – 32 crs.

**Course Restrictions:** This course is a longitudinal clerkship integrating components of the Phase 3 HAC, AAC and RAC blocks. Students must be eligible for Phase 3 clerkships. Students must be approved by course director to take the course.

The ILMC is a unique 16-wk longitudinal clerkship allowing students to fulfill competencies for HAC, AAC and the RCC blocks in one continuous teaching site. Students spend 12 weeks at one learning site preceded by an initial month of HAC in the Denver metropolitan area.

**IDPT 7090 Mentored Scholarship III**

Fall, Spring Sems.

1.0 cr.

A four year requirement for students to complete a mentored scholarly project and a capstone presentation. Project can be in one of the following thematic areas: basic research, clinical research, global health, epidemiology and public health, humanities and social sciences.

**IDPT 7095 Research Track III**

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students clarify and plan Phase IV process for completing Research Track requirements.

**IDPT 7101 Clinical Practice Exam (CPE) Formative**

All Sems.

1.0 cr.

To advance to Phase IV, students must complete all required Phase III clerkships with passing grades, must complete the required Longitudinal Curriculum elements, the formative CAPE assessment, and successfully pass or remediate the Clinical Practice Exam (CPE).

**IDPT 7102 Clinical Practice Exam (CPE) Summative**

All Sems.

1.0 cr.

To advance to Phase IV, students must complete all required Phase III clerkships with passing grades, must complete the required Longitudinal Curriculum elements, the formative CAPE assessment, and successfully pass or remediate the Clinical Practice Exam (CPE).

**PHASE 4 REQUIRED CLINICAL CLERKSHIPS FOR 2016-2017**

**IDPT 8004 Integrated Clinicians 4**

2 wks

Spring Semester

**Course Restrictions:** Offered section 41 only.

Through didactic and small group sessions, the course will teach advanced clinical skills, translational basic science and thread material that is vital to doctoring, but underrepresented in the clinical blocks.

**IDPT 8005 Integrated Clinicians 5**

2 wks

Spring Semester

**Course Restrictions:** Offered section 51 only.

ICC 5 is a required Phase IV course that will provide you with essential learning opportunities to begin residency and your career to include ACLS, legal malpractice, teaching skills, finance, leadership skills and specialty specific clinical reviews.

**IDPT 8090 Mentored Scholarship IV**

Longitudinal wks

Fall and Spring

Students work intensively with mentors on their chosen MSA Project. Students critically review background literature, define a question/hypothesis, develop and implement methods and student design, collect data, analyze and interpret data, and submit written progress reports for their MSA project.



**IDPT 8095 [Research Track IV](#)**

[Longitudinal wks](#)

[Fall and Spring](#)

**Course Restrictions:** Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

Students complete requirements for Research Track which includes submission to a national scientific journal of a first author manuscript which meets mentor-standards as appropriate for submission. Students will present their work at the Capstone event.

**PHASE 4 ELECTIVES 2016-2017**  
**Prerequisite for all Phase 4 electives: Completion of Phase 3**

**ANESTHESIOLOGY ELECTIVES**

**ANES 8000 [Clinical Anesthesiology](#)**

[2 or 4 wks](#)

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. Course is completed at Children's Hospital Colorado and Denver Health.

**ANES 8001 [Surgery Intensive Care Sub-I](#)**

[4 wks](#)

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

**Prerequisite:** ANES 8000

The goal is to prepare MSIV's for internship by having them manage 'their' patients, present on multidisciplinary rounds, call consults, assist/performing procedures, discuss clinical topics & receive didactics. Honors requires clinical excellence and a written paper. Students to have Anesthesia Department Monthly Academic Calendar on the Friday before they start.

**ANES 8002 [ANES Subspecialties](#)**

[2 or 4 wks](#)

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, Transplant, General OR, General OR at the VA, and Outpatient.

**ANES 8100 [ANES Elective Away](#)**

[2 or 4 wks](#)

**Prerequisite:** Department approval must be obtained and these must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs and there may be additional requirements for these.

**ANES 8600 [Research Anesthesiology](#)**

[2, 4, 8, or 12 wks](#)

**Prerequisite:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

This course allows students to complete a research project in Anesthesiology.

**ANES 8630 [ANES Research Away](#)**

[2, 4, or 8 wks](#)

**Prerequisite:** Department approval must be obtained. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs and there may be additional requirements for these.

**DERMATOLOGY ELECTIVES**

**DERM 8000 [Dermatology Clinical Elective](#)**

[2 wks](#)

**Course Restrictions:** Two week rotations only.

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.

**DERM 8001 [Dermatology Clerkship](#)**

[4 wks](#)

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.

**DERM 8300 [DERM Elective Away](#)**

[2 or 4 wks](#)

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado or another state.

**DERM 8600 [Research in Dermatology](#)****[2, 4, 8, or 12 wks](#)**

**Prerequisite:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

Research elective allows the student to design and implement a basic science, clinical or epidemiologic research project relevant to dermatology or cutaneous biology. Students are expected to participate in research seminars and to present their results.

**DERM 8630 [DERM Research Away](#)****[2, 4, or 8 wks](#)**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs and there may be additional requirements for these.

<b>EMERGENCY MEDICINE ELECTIVES</b>
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**EMED 8004 [Emergency Med Univ Hosp](#)****[2 or 4 wks](#)**

Students are primary caregivers in a level II trauma center with a variety of patients and individual teaching time with attendings and senior residents. Ideal for students seeking instruction in the assessment and management of the undifferentiated patient.

**EMED 8005 [Emergency Medicine DHMC](#)****[4 wks](#)****[Spring Sem.](#)**

**Course restrictions:** Spring semester only, Jan – May.

This rotation is designed for the senior medical student who may be applying to primary care or other specialties who wants to gain exposure to emergency medicine.

**EMED 8006 [Emer Med Career Elective](#)****[4 wks](#)****[Summer, Fall Sems.](#)**

**Course Restrictions:** Emergency Medicine Career track students only until Section 21.

This rotation is specially designed for the senior medical student who has decided on emergency medicine as a career and will be applying to emergency medicine residencies.

**EMED 8017 [Peds Emergency DHMC](#)****[2 or 4 wks](#)**

**Course Restrictions:** Experience at Denver Health Medical Center. See PEDS 8025 for experience at Children's Hospital Colorado.

Students will serve as the primary caregivers in the Denver Emergency Center for Children at Denver Health, a pediatric emergency department treating 30,000 children annually. Students will be fully integrated into the team, treating children with acute and urgent illnesses.

**EMED 8024 [Clinical Toxicology](#)****[4 wks](#)**

Introduction to Medical Toxicology at Rocky Mountain Poison and Drug Center. Conferences and didactic instruction provided daily. Short presentations required. Training in initial management, diagnosis, and treatment of poisoning. May include patient care at DH, UCH, and CHCO.

**EMED 8030 [Rural Emergency Medicine](#)****[2 or 4 wks](#)**

For Housing: <http://ahec.ucdenver.edu/finaid/>

A continuation of the Emergency Care Clerkship, currently a two-week required component of Phase III study. This course is for students who seek more in-depth knowledge and additional clinical skills, relating to Emergency Care in the rural setting.

**EMED 8031 [Wilderness Medicine](#)****[2 wks,](#)****[Spring Sem.](#)**

**Course Restrictions:** must be a 4<sup>th</sup> year student in good academic standing. Not available to externs. Variable fee.

Course offered sections 47 and 48 only.

Students will learn core wilderness medicine principles in small group and lecture-based formats then apply their knowledge to scenarios in wilderness settings. The course will spend the first week near Estes Park and the second week near Moab, UT.

**EMED 8050 [Emergency Medicine – Colorado Springs](#)****[2 or 4 wks](#)****[All sems.](#)**

Students will work with Emergency Medicine clinical faculty seeing patients in Colorado Springs' community-based Emergency Dept. Student will be exposed to the full range of Emergency Medicine. Course offered all semesters except sections 9-13 in 4th year.

**EMED 8100 [EMED Elective Away](#)****[2 or 4 wks.](#)**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be at least one month in advance of start.

This Emergency Medicine elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

**EMED 8600 [Research in EMED](#)****[2, 4, 8 or 12 wks.](#)**

**Prerequisite:** Special permission from the department and individual arrangements must be completed.

Designed for students interested in Emergency Medicine research. Tailored research experiences in the Denver area can be established in a variety of settings. Speak with the course director to design this elective.

**EMED 8630 [EMED Research Away](#)****[2, 4 or 8 wks.](#)**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Life, and there may be additional requirements for these.

## FAMILY MEDICINE ELECTIVES

### **FMMD 8002 Family Med Univ Hosp Sub-I**

[4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

**Course Restrictions:** Not available in section 9.

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**

[2 or 4 wks](#)

[Fall, Spring Sems.](#)

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.

### **FMMD 8008 Occup/Envir Med In FM**

[2 or 4 wks](#)

**Prerequisite:** Course director approval required to add this elective.

Students will learn principles of Occupational and Environmental Medicine. A variety of assessments ranging from sport physicals, commercial/FAA exams to complex disability evaluations will be taught. Elective taught by Drs. Stephen Gray or James Bachman.

### **FMMD 8012 Oral Health: Acute Dental**

[2 wks](#)

[Fall, Spring Sems.](#)

**Prerequisite:** Course Director approval.

**Restrictions:** This elective offered only at selected times. It will not be offered in June, July, August, or December.

The focus of this elective is on recognition, assessment, triage, and treatment of acute dental problems, such as pain, infection, and trauma. Students interested in rural or underserved primary care practice should take this elective.

### **FMMD 8014 PCMH: Concept & Practice**

[2 wks](#)

[Spring Sem.](#)

**Course Restrictions:** Elective only offered Sections 39 & 40. Prior approval by the Course Director or coordinator needed.

Learn why the Patient Centered Medical Home is a comprehensive model that will revolutionize primary care of the 21<sup>st</sup> century. Students will study the evidence behind the main principles of the PCMH and experience them in action at PCMH-certified clinics.

### **FMMD 8100 FMMD Elective Away**

[2 or 4 wks](#)

**Prerequisite:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Must work with a family physician. Students must have learning objectives approved by course director.

This elective will be held at a site in Colorado or another state. Can be done in private offices or a CO Residency Program if not structured as a Sub-I. All rotations out of state (even if considered a Sub-I at an out-of-state residency program are required to register as FMMD 8100.)

### **FMMD 8400 International FM**

[4, 8, or 12 wks](#)

**Course Prerequisite:** Approval from Course Director.

**Restrictions:** May not register for final 6 weeks for academic year. Supervising physician must be a family physician.

Management of Family Medicine problems common to countries outside of the United States. Inpatient and outpatient experiences with a family physician are acceptable. Successful International Experiences sessions are required. Arrangements including registering with "Studio Abroad" must be completed 60 days prior to the elective.

### **FMMD 8600 Research in FM**

[2, 4, 8 or 12 wks](#)

**Prerequisite:** Course director approval is required to add this course. Personal goals and objectives related to the area of scholarship must be approved by the course director.

**Course Restrictions:** Must be supervised by a family physician or Department of Family Medicine faculty approved by the Course Director. Must have research goals and objectives approved as well.

Students may participate in scholarly work directed by specific Family Medicine faculty members including practice-based research, curriculum development, patient education projects, and other scholarly activities. A DFM MSA or research mentor must supervise and are responsible for evaluations.

## INTERDEPARTMENTAL ELECTIVES

### **IDPT 8000 Foundations Doctoring IV**

[Summer, Fall, Spring, Sems.](#)

**Course Restrictions:** To register please email [SOM.FDC@ucdenver.edu](mailto:SOM.FDC@ucdenver.edu). For graduation requirements, this course counts one week for summer semester and two weeks each for fall and spring semesters.

This course continues the established student-preceptor relationship from the FDC course. Students attend their preceptor office 2-3 times per month. Students will work with a panel of patients or families serving as their physician under the supervision of their preceptor. 2.0 cr. Summer, 4.0 Fall and Spring.

### **IDPT 8001 Tutoring in Foundations**

[Fall, Spring Sems.](#)

**Course Restrictions:** To register please email [SOM.FDC@ucdenver.edu](mailto:SOM.FDC@ucdenver.edu). For graduation requirements, this course counts one week each for fall and spring semesters.

Fourth year students are trained how to be tutors and then use their skills with first and second year students learning physical exam and communication skills. Learn how to coach small groups of students, give feedback and evaluate student performance. 2.0 cr. Fall and Spring.

### **IDPT 8003 Geriatrics**

[4 wks](#)

This Geriatric Medicine elective will allow students to participate in the evaluation and care of elderly patients as part of the Geriatric Evaluation and Management team (GEM) comprised of internal medicine residents and geriatric attending physicians. Care settings include post-acute care at the VA Community Living Center and the State Vets Home at Fitzsimmons, home care, outpatient clinic, and hospice. Clinical experiences and care settings can be varied based on individual student interests.

### **IDPT 8004 Integrated Clinicians 4**

[2 wks](#)

[Spring Semester](#)

**Course Restrictions:** Offered section 41 only.

Through didactic and small group sessions, the course will teach advanced clinical skills, translational basic science and thread material that is vital to doctoring, but underrepresented in the clinical blocks.

**IDPT 8005 Integrated Clinicians 5****2 wks****Spring Semester****Course Restrictions:** Offered section 51 only.

ICC 5 is a required Phase IV course that will provide you with essential learning opportunities to begin residency and your career to include ACLS, legal malpractice, teaching skills, finance, leadership skills and specialty specific clinical reviews.

**IDPT 8007 Medicine / Pediatrics****2 or 4 wks****Prerequisites:** Course Director approval required to add this course.

This focus of this elective is to help students discern whether to pursue combined residency training in Internal Medicine and Pediatrics. This course will expose students to possible career paths available for Med-Peds providers within primary and specialty care settings.

**IDPT 8011 Clinical Nutrition****2 wks****Course Restrictions:** Contact: [laura.primak@ucdenver.edu](mailto:laura.primak@ucdenver.edu), two weeks prior to start date.

Develop your nutrition assessment skills with this elective, tailored to your needs with adult and/or pediatric inpatients and/or outpatients with a variety of conditions and diseases. Active learning with exceptional mentors is emphasized. Please confirm areas of nutrition interest with course coordinator at least one month prior to start.

**IDPT 8014 Global Health US Project****4 or 8 wks****Course Restrictions:** Course director approval required to add course.

This course is the continuation of IDPT 6667 and 6668. Students will undertake a global health project at a US-based site under the supervision of their designated mentor and local supervisors.

**IDPT 8015 Global Health Intl Project****4 or 8 wks****Course Restrictions:** Course director approval required to add course.

This course is the continuation of IDPT 6667 and 6668. Students will undertake a global health project at an international site under the supervision of their designated mentor and local supervisors.

**IDPT 8016 Physician as Educator****Fall and Spring Sems.****Prerequisite:** Prior approval by the Course Coordinator required to add this course.**Course Restrictions:** This is a two-semester course offered fall and spring semesters. For graduation requirements, each semester counts one week.

This elective is intended to develop your skills as an effective teacher in clinical settings. This will include participation in evening teaching workshops, co-precepting first and second year medical students at Stout Street Clinic and Foundations of Doctoring skills sessions. 2.0 cr. Fall and Spring.

**IDPT 8018 Global Health & Disaster****2 wks****Fall semester****Course Restrictions:** Section 27 only.

This course prepares its participants for international experiences and future global health work. This is an interactive training course which incorporates readings, lectures, small group problem based learning exercises, technical skill sessions, online coursework and a disaster simulation exercise. Learning Objectives for the Two Week Course.

**IDPT 8019 Team-based Clinical Care****Longitudinal wks****Fall/Spring Sems.****Course Restrictions:** For graduation requirements, each semester counts one week.

Interprofessional team-based course with 3 components: 1) Assessment of patient experience (through Voice of the Patient activity), 2) Attendance at Collaborative Event Review (M&M) with review of patient safety topics, 3) Analysis of quality improvement problem and presentation of recommendations to hospital-based unit.

**IDPT 8020 Physician as Advisor****Fall and Spring Sems.****Prerequisites:** Fourth year standing and selection as a "Student Advisor" in the Advisory College Program.**Course Restrictions:** This is a two-semester course offered Fall and Spring. For graduation requirements, each semester counts one week.

Physician as Advisor teaches fourth year students to advise peer students in an Advisory College Program. It will prepare students for careers in academic medicine by developing skills in advising, leadership, and administration as well as self-assessment. 2.0 cr. Fall and Spring.

**IDPT 8021 Costa Rica Spanish Immersion****4 wks****Spring Sem.****Prerequisites:** Course Director approval required. This Spanish immersion and community health elective is most appropriate for students who have studied Spanish in at least at the "Advanced Beginner" level. Students who have not studied Spanish in high school or college should have Spanish language experience equivalent to one of the following; past instruction in the School of Medicine's SABES or SABES-II (Clinical Medical Spanish) elective; or successful completion of Common Ground International's Beginning I Medical Spanish course. Contact course coordinator for information.**Course Restrictions:** Offered Section 37 only. The estimated charge (by Common Ground International) is \$3,350, which includes: travel, medical insurance; home stay lodging and two meals per day; language classes and class materials; a comprehensive Medical Mission Handbook; and transportation to and from afternoon health tours and volunteer sites. This fee also includes course coordination and support by the onsite program coordinator, seminars by local Costa Rican health experts and staffing by clinical preceptors.

This Spanish immersion course in Costa Rica includes home stays, intensive language instruction and public health outreach activities in underserved communities. Students should be passionate about providing care to disadvantaged patients in the U.S. or abroad and committed to improving their Spanish language skills.

**IDPT 8022 Clinical Medical Spanish -****4 wks****Fall Sem.**

**Prerequisites:** 2 years of classroom Spanish language instruction (i.e. 2 semesters of college level Spanish), basic Spanish language conversation ability, some knowledge of Medical Spanish. Evaluation by Spanish language instructor prior to registration approval is required.

**Course Restriction:** Offered section 21 only. Course fee: \$330 plus textbooks.

Clinical Medical Spanish is a near-immersion experience in medical Spanish: consisting of intensive classroom instruction in medical Spanish, a clinical sub-internship at Denver metro-area outpatient clinics, and a final presentation to the class. Home stays with a Spanish-speaking family may be possible.

**IDPT 8023 Refugee Health II****2 or 4 wks****All Sems.**

**Course Restrictions:** Course director approval required to add this elective as it depends on availability.

Refugee Health II will provide Phase IV medical students with clinical exposure to the multifaceted nature of refugee healthcare through two or four week commitments at the Colorado Refugee Wellness Center.

**IDPT 8025 Ultrasound – EM-DHHA****4 wks**

Clinician-performed ultrasound is an integral skill in a number of medical specialties. This elective will enable students to gain valuable skills related to the acquisition and interpretation of bedside ultrasound images. This elective will involve didactic and hands-on educational opportunities.

**IDPT 8026 Critical Care & Procedural Skills****2-4 wks****Spring Sem.**

Formerly EMED8007. Students will participate in an intensive 2-week elective with performance-based, hands-on training in 4 procedural skill areas: airway management, laceration repair, fluid sampling, and vascular access. Students will also complete training in management of critically ill patients using procedural skills and simulated patients. Department Consent required.

**IDPT 8030 Laboratory Medicine****4 wks****Fall Sem.**

**Course Restrictions:** Course offered section 17 only.

This elective gives senior students comprehensive instruction in using laboratory tests. It reviews physiologic and biochemical phenomena on which laboratory tests are based and emphasizes approaches to interpret laboratory data, awareness of indications, and pitfalls of laboratory tests.

**IDPT 8040 Physician as Healthcare Improver****1 wk****Summer, Fall, Spring**

Students complete 16 IHI Open School on-line courses to earn their Basic Certificate of Completion. Course content includes: quality improvement, patient safety, leadership, patient/family-centered care, and managing health care operations. Students also reflect on learning and implication for future career.

**IDPT 8050 Mental Health – Colorado Springs****2 or 4 wks****All sems.**

Students will work with a mental health team embedded within a primary care clinic, with a goal of improving primary care provider comfort in identifying and treating common mental health conditions.

**IDPT 8051 Infectious Diseases – Colorado Springs****2 or 4 wks****All sems.**

Students work with Infectious Disease clinical faculty seeing patients in C. Springs community-based setting. Students see patients in outpatient clinic, inpatient consultation, and the infusion center. This course is designed for students looking to deepen their understanding of the diagnosis, management, and treatment of acute infection.

**IDPT 8052 Introduction to Public Health – Colorado Springs****2-4 wks**

The principles of Population Health are essential for future physicians to understand. Physicians function within a larger community of allied healthcare providers to include Public Health professionals. Social and ecological factors play a greater role in the health of communities than clinical interventions. Course offered Aug and Oct.

**IDPT 8053 Medical Improvisation****2 wks****Spring sem.**

The Medical Improvisation elective uses interactive improvisation theater techniques to increase learner ability and confidence in patient-centered communication. Prior research has established Medical Improvisation's suitability for both advanced and beginning clinicians and multiple medical schools have incorporated this curriculum.

**IDPT 8090 Mentored Scholarship IV****Longitudinal wks****Fall and Spring**

Students work intensively with mentors on their chosen MSA Project. Students critically review background literature, define a question/hypotheses, develop and implement methods and student design, collect data, analyze and interpret data, and submit written progress reports for their MSA project.

**IDPT 8091 MSA Phase IV Preparation****4 wks****Summer, Fall, Spring**

**Prerequisite:** Prior approval of Mentor, Course Director, and Associate Dean for Student Affairs, required.

Students work intensively with mentors on their chosen MSA Project. Students critically review background literature, define a question/hypothesis, develop and implement methods and study design, collect data, analyze and interpret data, and submit written progress reports for their MSA project.

**IDPT 8093 IDPT Scholarly Activity****4 wks****Summer, Fall, Spring**

**Prerequisite:** Special permission and individual arrangements required in advance. Student must have a faculty/project mentor who will sign off on the project.

**Restriction:** Cannot be taken after Section 47.

This course is designed to allow students to complete scholarly work not appropriately covered by other available courses (e.g. MSA work beyond IDPT 8091).

**IDPT 8095 Research Track Phase IV****1.0 cr.****Fall and Spring**

**Prerequisite:** Required if enrolled in Research Track, taken in place of IDPT 8095.

Students complete requirements for Research Track which includes submission to a national scientific journal of a first author manuscript which meets mentor-standards as appropriate for submission. Students will present their work at the Capstone event.

**IDPT 8540 DH-LIC Capstone Social Medicine****2 wks**

A 2 week elective available to alumni of the DH-LIC and required for students enrolled in the DH-LIC Longitudinal Scholarship in Social Medicine Elective. This elective provides in-depth content and expert speakers covering topics in social medicine, disparities, health care systems and public and population health.

**IDPT 8601 [Research Track, Rsrch I](#)** [4 wks](#) [Summer, Fall, Spring](#)

**Course Restrictions:** Limited to and required for Phase IV (MS4) medical students who are in good standing in the Research Track.

The first of two courses for Phase IV Research Track medical students. Students are expected to spend full time working on their research project and towards the Track required goals of submitting an abstract and a first-author publication.

**IDPT 8602 [Research Track, Research II](#)** [4 wks](#) [Summer, Fall, Spring](#)

**Prerequisite:** IDPT 8601, Research Track, Rsrch I.

**Course Restrictions:** Limited to and required for Phase IV (MS4) medical students who are in good standing in the Research Track. May be repeated once as an elective.

The second of two courses for Phase IV Research Track medical students. Students are expected to spend full time working on their research project and towards the Track required goals of submitting an abstract and a first-author publication.

**IDPT 8640 [DH-LIC Longitudinal Scholarship](#)** [2-4 wks](#)

A longitudinal elective available to alumni of the DH-LIC aimed at providing in-depth mentored project work and a longitudinal curriculum in social medicine and population health. The longitudinal course will count as a research elective.

<b>MEDICINE ELECTIVES</b>
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**MEDS 8001 [Medicine Sub-I](#)** [4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

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, UCH, VAMC, and St. Joseph's Hospital.

**MEDS 8002 [Hospital Medicine Sub-1](#)** [4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

Experience hospitalist medicine first hand by working one-on-one with an attending and developing a quality improvement initiative. You will also gain the skills to excel from the start of intern year by being the primary provider for your patients.

**MEDS 8004 [Cardiology](#)** [4 wks](#)

Designed to offer a broad general exposure to adult cardiology, including history, physical examination, and an introduction and review of standard noninvasive testing.

**MEDS 8005 [Cardiac Diagnostic Skill](#)** [2 wks](#)

Course is at Exempla St. Joseph Hospital. Goals are to improve cardiac physical diagnosis skills, interpret EKG findings, recognize abnormal heart sounds and murmurs; and analyze cardiac chest x-ray findings. Includes didactic sessions and home study.

**MEDS 8006 [Allergy/Clin Immunology](#)** [2 or 4 wks](#)

**Prerequisite:** Course Director approval required to add course.

Offered at UH and NJMC. Allergy and clinical immunology with direct patient contact in allergy and immunology clinics. Opportunities to participate in inpatient consultations, observe clinical immunology laboratory techniques, and library research.

**MEDS 8007 [Clinical Renal](#)** [2 or 4 wks](#)

A four-week elective course in electrolyte, hypertensive, acute and chronic renal failure, glomerular (including diabetes) disorders, and hospital services. The students will see consults on all services, learn to maintain and analyze flow sheets, review problems with residents and fellows. Students will also be exposed to clinical outpatient Nephrology.

**MEDS 8009 [Clin Infectious Diseases](#)** [2 or 4 wks](#)

UCH, DHMC, and VA Hospital assigned. Hospitalized patients with a variety of infectious diseases are available for study. Diagnosis, pathophysiology, immunology, epidemiology, and management, including use of antimicrobial agents are emphasized. Students attend and participate in ward rounds and conferences.

**MEDS 8010 [Clin Gastroenterology](#)** [2 or 4 wks](#)

Students will participate in work up of both hospitalized and ambulatory patients with gastrointestinal (GI) illnesses. GI pathophysiology will be emphasized. Students attend weekly conferences in clinical gastroenterology, radiology and pathology. They are invited to observe procedures. Hospital is assigned.

**MEDS 8011 [Pulmonary](#)** [4 wks](#)

The goal of the Pulmonary Medicine elective rotation is to expose the physician-in-training (Phase IV Medical Students) to patients with pulmonary disease that are encountered in the primary care and acute care hospitalization setting as well as in the sub-specialist's realm.

**MEDS 8012 [Clinical Rheumatology](#)** [4 wks](#)

Students will learn how to recognize, diagnose, and treat common rheumatic disorders. Students will attend all formal teaching conferences in the Division of Rheumatology and attend 6 or more outpatient clinics each week at Denver Health, Denver VA, and the University campus.

**MEDS 8013 [Endocrinology](#)** [2 or 4 wks](#)

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 8014 [Hematology / Oncology](#)** [2 or 4 wks](#)

Students will attend some of the numerous subspecialty outpatient clinics for patients with various malignancies and benign hematologic problems including blood coagulation. Students are particularly encouraged to attend the inpatient bone marrow transplant and inpatient hematology consult services. Based on individual interests students can attend outpatient clinics devoted to specific "solid" tumors and other more specialized areas such as pathology specific to hematology and oncology.

**MEDS 8017 [Hospice/Palliative Care](#)** [2 or 4 wks](#)

**Prerequisite:** 1) Course Director approval required to add course. 2) Contact Dr. Youngwerth 1 week prior to starting via email at [Jean.Youngwerth@ucdenver.edu](mailto:Jean.Youngwerth@ucdenver.edu).

**Course Restriction:** Please contact Dr. Youngwerth via email if you drop the course.

This is an introduction to hospice and palliative care. Students will explore the physical, social, psychological, and spiritual aspects of patient care of the terminally ill at hospice, and learn to elicit goals of care and acute symptom control in the hospitalized patient with serious illness.

**MEDS 8023 [Medicine Consult](#) [2 or 4 wks](#)**

Medicine Consult is for students interested in learning about medical issues of surgical patients and performing general medical consultations for non-medical services. This elective will be useful to the student interested in a career in hospital medicine or surgical subspecialties.

**MEDS 8025 [Medical Oncology](#) [4 wks](#)**

Students will learn the basic aspects of medical oncology by evaluation of patients in the general oncology and subspecialty oncology clinics. They will attend the weekly multi-disciplinary tumor conferences and fellow didactic conferences.

**MEDS 8029 [Applied Clin Pharmacolog](#) [4 wks](#) [Spring Sem.](#)**

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. The course is taught in classroom lecture format. There are three lectures per day, every day during the 4-week period.

**MEDS 8032 [Corrections Health Care](#) [2 wks](#)**

**Prerequisite:** Course Director approval required to add this course.

Provide primary care to inmates in corrections facilities. Experiences include manipulative or drug-seeking patients, the interface between health care and the legal system, and issues in correctional health care (i.e., HIV, TB).

**MEDS 8034 [Critical Care St Joe's Sub-I](#) [4 wks](#)**

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

**Course Restrictions:** Maximum enrollment of 2-3 students, depending on Section #: (3 spots are generally available May thru September.)

Student sub-internship on one-resident/one-intern team, 10 day-time alternating with 5 night-time shifts, one day off weekly. Student attends daily ICU Cardiology/Pulmonary/interdisciplinary rounds, Morning Report, and Noon conference and will enhance skills in evaluating, managing and communicating with critically ill patients and families.

**MEDS 8037 [Critical Care UH](#) [4 wks](#)**

**Prerequisites:** Sub-I in Medicine or Surgery.

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 8038 [CAM Wellness Elective](#) [2 or 4 wks](#) [Fall, Spring Sems.](#)**

**Prerequisites:** Course director approval required to add this course.

In-depth exploration of complimentary/alternative medicine therapies and personal wellness will be facilitated through didactic sessions, field trips, online learning, reflection, and self-directed project.

**MEDS 8039 [AIDS & American Culture](#) [2 wks](#) [Spring Sem.](#)**

**Course Restrictions:** Offered section 49 only.

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](#) [2 wks](#) [Spring Sem.](#)**

Restrictions: Offered section 43 only.

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

**MEDS 8050 [Community Hospital Medicine – Colorado Springs](#) [2-4 wks](#)**

Students will work with Hosp Med faculty seeing patients on the inpatient medical wards at a busy, large community hospital. Students will be exposed to a wide range of acute medical issues in patients presenting to the hospital. Course offered all semesters except May and December.

**MEDS 8051 [Gastroenterology – Colorado Springs](#) [2-4 wks](#)**

Students will work with Gastroenterology clinical faculty seeing patients in the outpatient, inpatient, and endoscopy community settings. Student will be exposed to the full range of adult gastroenterologic disease. The rotation is designed for students to experience the practice and life of a community-based Gastroenterologist.

**MEDS 8052 [Medical Critical Care – Colorado Springs](#) [4 wks](#)**

Students will work with a critical care physician and critical care team evaluating critically ill patients in consultation on the hospital wards and providing primary care to the patients in the Intensive Care Units at a large busy community health system.

**MEDS 8053 [Adult Cardiology – Colorado Springs](#) [2-4 wks](#)**

This elective provides an opportunity to learn about the history, physical exam, and diagnostic cardiac procedures of adults with heart disease by working directly with attending cardiologists in the outpatient clinic, rounding and performing consults in the hospital, and performing and interpreting cardiac testing.

**MEDS 8100 [MEDS Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Not available sections 49 and 50.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

Course is Pass/Fail only.

**MEDS 8600 [Research in Medicine](#) [2, 4, 8, or 12 wks](#)**

**Prerequisites:** Special permission from the department and individual arrangement must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

**Course Restrictions:** Not available sections 49-50.

Phase 4 medical students perform clinical, basic science or health services research under the supervision of an Internal Medicine faculty member. Project is defined with individual mentor and approved by course director. Course is graded on a pass/fail basis.

**MEDS 8630 [MEDS Research Away](#)**

[2, 4, or 8 wks](#)

**Prerequisites:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Not available sections 49-50. This course is graded on a pass/fail basis only.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**NEUROLOGY ELECTIVES**

**NEUR 8000 [Neurology](#)**

[2 or 4 wks](#)

**Course Restrictions:** 2-week rotation allowed only for special circumstances and with Course Director approval one month prior to beginning of course.

This elective offers students further clinical experience with patients who have neurologic disorders. A program is prepared at one of three teaching institutions (University of Colorado Hospital, Denver Veterans Affairs Medical Center, or Denver Health Medical Center) for this rotation.

**NEUR 8100 [NEUR Elective Away](#)**

[2 or 4 wks](#)

**Prerequisites:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Per Office of Student Affairs guidelines.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**NEUR 8600 [Research in Neurology](#)**

[2, 4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangement must be completed and then the student must receive prior approval from the prior approval from the Associate Dean for Student Affairs.

This course will allow the student to design and conduct research project with a member of the Neurology Faculty.

**NEUROSURGERY ELECTIVES**

**NSUR 8014 [Neurosurgery Sub I](#)**

[4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

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 8100 [NSUR Elective Away](#)**

[2 or 4 wks](#)

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may additional requirements for these.

**NSUR 8600 [Research in Neurosurgery](#)**

[2, 4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangement must be completed and then the student must receive prior approval from the prior approval from Student Affairs.

A written evaluation must be sent to Dr. Yasuaki Harasaki and Krystin Martinez.

**NSUR 8630 [NSUR Research Away](#)**

[2, 4, or 8 wks](#)

**Prerequisites:** Department approval must be obtained and a course work away form must be completed. These must be completed at least one month in advance of start.

**Course Restrictions:** Not available sections 49-50.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**OBSTETRICS AND GYNECOLOGY ELECTIVES**

**OBGY 8000 [General Obstetrics Sub I](#)**

[4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

Offered at DHMC only. Includes experience in outpatient high risk obstetrics, inpatient antepartum, intrapartum, postpartum, and family planning. Student works under clinical supervision of residents and attending staff.

**OBGY 8001 [General Gynecology Sub I](#)**

[4 wks](#)

**This Sub-I course meets the UC SOM requirement for graduation.**

Offered at DHMC only. This course is designed to allow students to become integrally involved with the general gynecology service. Students will partake in all clinical activities of the service, including operative procedures, management of inpatient gynecology conditions, and emergency room consultation.

**OBGY 8002 [Directed Study in OBGYN](#)**

[4 or 8 wks](#)

**Prerequisites:** Must have approval from specific faculty involved and from Course Director to register.

Students may obtain detailed and intensive directed study with specific faculty members. Opportunities such as clinical research projects, laboratory projects, directed literature reviews, and special clinical rotations are available.

**OBGY 8004 [High Risk Maternal/Fetal Sub-I](#)**

[4 wks](#)

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

**Prerequisites:** Passing grade in core Obstetrics and Gynecology Clerkship



The student will function as a sub-intern and team member in the care of high-risk obstetrical patients at the University of Colorado Hospital. In addition to inpatient care duties, the student will attend the high risk obstetrics conference and clinic (currently held Tuesday afternoons in AOP)

**OBGY 8005 [Gynecologic Oncology Sub-I](#) [4 wks.](#)**

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

The student will attend GYN Oncology clinics, scrub in on GYN Oncology surgical cases, and round on inpatients with the team, functioning as an acting intern. The student will attend pathology conference weekly with the team. Student will be required to perform a literature review and talk on a selected topic and will have an oral exam.

**OBGY 8009 [GYN Subspecialties](#) [4 wks](#)**

**Course Restrictions:** This elective is for University of Colorado students only, no visiting students.

This elective is designed to expose the student to a variety of outpatient subspecialty gynecologic clinics. These clinics include colposcopy, pediatric gynecology, vulvovaginitis, urogynecology, and pelvic pain. The student works under the direct supervision of attending physicians. An end of rotation presentation is required.

**OBGY 8010 [Reproductive/Infertility](#) [2 or 4 wks](#)**

Student will attend clinics, scrub on surgical procedures, in vitro fertilization procedures, and embryo transfers. The student will participate in ultrasounds, procedures and clinical consultations. The student will present a brief lecture to the division at the conclusion of the rotation.

**OBGY 8011 [Family Planning](#) [4 wks](#)**

**Course Restrictions:** This elective is for University of Colorado students only, no visiting students.

This elective is designed to make the student proficient in providing family planning services: contraception, options counseling and termination procedures. Substantial emphasis will also be placed participation in ongoing research activities of the division.

**OBGY 8012 [UH Gynecology Sub-I](#) [4 wks](#)**

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

This course is designed to allow students to become integrally involved with the general gynecology service. Students will partake in all clinical activities of the service, including operative procedures, management of inpatient gynecology conditions, and emergency room consultation.

**OBGY 8015 [Group Prenatal Care: Pregnancy and Parenting Partners](#) [Longitudinal Wks](#) [All Sems.](#)**

**Course Restrictions:** Entire year counts for 2 weeks.

Students will follow a cohort of women through a group prenatal and postpartum care program. Students will work with Certified Nurse Midwives (CNM) and group facilitators to provide prenatal exams and to facilitate educational sessions with an underserved population.

**OBGY 8100 [OBGY Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**OBGY 8600 [Research in OBGYN](#) [2, 4, 8, or 12 wks](#)**

**Prerequisites:** Special permission from the department.

**OBGY 8630 [OBGY Research Away](#) [2, 4, or 8 wks](#)**

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

## OPHTHALMOLOGY ELECTIVES

### **OPHT 8000** [Ophthalmology](#)

[2 or 4 wks](#)

This elective is designed for senior students seriously considering a career in Ophthalmology. Students rotate at each hospital with in-depth exposure to each subspecialty area. Students are expected to participate with in- and out-patient care, call activities, teaching rounds, conferences.

### **OPHT 8100** [OPHT Elective Away](#)

[2 or 4 wks](#)

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

### **OPHT 8600** [Research Ophthalmology](#)

[2, 4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean of Student Affairs.

A final written evaluation must be mailed to Course Director who will assign the final grade.

### **OPHT 8630** [OPHT Research Away](#)

[2, 4, or 8 wks](#)

**Prerequisites:** Department approval must be obtained and a course work away form must be completed and submitted. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

## ORTHOPEDIC ELECTIVES

### **ORTH 8000** [Orthopedic Surgery Sub-I](#)

[4 wks](#)

[Summer, Fall](#)

**Course Restrictions:** Offered summer and fall semesters.

**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.

This course is designed as an elective in Orthopedic Surgery for students desiring residency training in Orthopedics or another surgical specialty. The student will function as a "sub intern" on a resident/faculty team in two hospital settings.

### **ORTH 8001** [Orthopedic Primary Care](#)

[2 or 4 wks](#)

[Spring Sem.](#)

**Restrictions:** Offered spring semester.

This course is designed as an elective in musculoskeletal medicine in route to a career in primary care or other overlapping field. The focus is on outpatient musculoskeletal medicine.

### **ORTH 8005** [Sports Medicine](#)

[4 wks](#)

**Course Restrictions:** This is a surgical orthopedic elective.

Course provides clinical experience in musculoskeletal sports medicine. Students will primarily be based in the CU Sports Medicine Clinic and will participate in patient evaluation with considerable operative exposure as well. This is not a non-operative Sports Medicine program.

### **ORTH 8006** [Alpine Orthopedics](#)

[4 wks](#)

**Prerequisites:** Students must have completed ORTH 8000 and be applying to orthopedic residency.

Orthopedic elective (4 weeks) designed for students on the path to orthopedic surgery residency who are seeking education and experience in a small mountain community. The course will be based out of Crested Butte, CO which has a high volume of sports injuries. Course will also offer exposure to rural orthopedics in Gunnison and Telluride.

### **ORTH 8050** [Sports Medicine – Colorado Springs](#)

[2-4 wks](#)

This elective provides the opportunity to learn about the diagnosis and treatment of common sports injuries and sports-related medical conditions by working with orthopedic surgeons, physical therapists, and athletic trainers in the clinic, hospital, schools, and sports training facilities.

### **ORTH 8100** [ORTH Elective Away](#)

[2 or 4 wks](#)

**Prerequisites:** Department approval must be obtained.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

### **ORTH 8600** [Research in Orthopedics](#)

[4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must

Provides an opportunity to participate in research at the clinical or basic science level. The student should contact the Departmental Office 3-4 months in advance to arrange a meeting with a member of the Orthopedics faculty to define a project.

### **ORTH 8630** [ORTH Research Away](#)

[2, 4, or 8 wks](#)

**Prerequisites:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

## OTOLARYNGOLOGY ELECTIVES

### **OTOL 8000 [Clinical Otolaryngology](#) [2 or 4 wks](#)**

For students strongly considering an ENT career. Offers in-depth clinical and operative exposure. Also useful for those seeking primary care to further hone head and neck exam skills and treatment of ENT pathology.

### **OTOL 8050 [Otolaryngology \(ENT\) – Colorado Springs](#) [2 wks](#)**

Patient care in relation to head and neck - ear, nose and throat ailments. Students will experience both outpatient and inpatient interactions. Will see procedures in clinic as well as in the operating room and participate in rounds at the hospital.

### **OTOL 8100 [OTOL Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start. This elective will be held at a site in Colorado or another state.

### **OTOL 8600 [Research Otolaryngology](#) [4, 8 or 12 wks](#)**

Students will gain experience in Otolaryngology-related research in basic or clinical science at the University of Colorado.

### **OTOL 8630 [OTOL Research Away](#) [2, 4, or 8 wks](#)**

**Prerequisite:** Departmental approval must be obtained and a course work away form must be completed and submitted. These must be completed at least one month in advance of the start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

## PATHOLOGY ELECTIVES

### **PATH 8000 [Pathology](#) [2 or 4 wks](#)**

Individualized rotation schedule is based on student's interests. Typical experiences include Anatomic Pathology (AP) services (surgical, cyto-, autopsy, and pediatric pathology). Subspecialty rotations in AP (hemato-, neuro-, renal, urologic, GI, pulmonary, and molecular pathology) or Clinical Pathology (CP) (clinical chemistry, microbiology, coagulation).

### **PATH 8050 [Pathology – Colorado Springs](#) [2 or 4 wks](#)**

Students will work with Pathology faculty and residents in the long-standing Penrose-St Francis Pathology Residency Program in Colorado Springs. Students will engage in experiential learning in laboratory medicine, anatomic pathology, and participate in didactics.

### **PATH 8100 [PATH Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained and then approval by Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

### **PATH 8600 [Research in Pathology](#) [2, 4, 8, or 12 wks](#)**

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

The student will rotate in a Department of Pathology laboratory or with faculty member with ongoing research relevant to student's clinical or long-term academic interests. Rotation can be in a basic science laboratory or focused on a clinical research topic of interest.

### **PATH 8630 [PATH Research Away](#) [2, 4, or 8 wks](#)**

**Prerequisite:** Departmental approval must be obtained and then approved by the Associate Dean for Student Affairs. These must be completed at least one month in advance of the start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

## PEDIATRIC ELECTIVES

### **PEDS 8000 [Pediatric Sub-I](#) [4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

Designed for those students interested in further training in pediatrics. Students will function as an intern and are responsible for the admission, evaluation, and continuing care of patients. Sub-internships are offered at Children's Hospital and Denver Health.

### **PEDS 8004 [Pediatric Cardiology](#) [4 wks](#)**

The student will make rounds with the cardiology team, see consults, attend outpatient clinics, and participate in cardiac catheterizations and conferences. Evaluation of children with heart diseases by history, physical examination, ECG, x-ray, echocardiography, and cardiac catheterization are stressed.

### **PEDS 8005 [Allergy and Immunology CHCO](#) [4 wks](#)**

**Course Restrictions:** Available sections 1, 5, 33, 37, and 45.

Offered at CHCO and DHMC. The student will work alongside allergy and immunology providers and share in the care of patients from clinic, as well as inpatient consults. Opportunities will be provided to observe skin testing, food/drug challenges, immunotherapy, and pulmonary function testing.

**PEDS 8006 [National Jewish Immunology and Allergy](#)**

**[2 or 4 wks](#)**

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 8007 [Child Abuse and Neglect](#)**

**[4 wks](#)**

Students learn about basic principles of child abuse and neglect. They participate in team evaluations of outpatient and inpatient child abuse cases and attend court. Held at Children's Hospital and the Kempe Center. Primarily observational and includes independent study.

**PEDS 8008 [Birth Defects/ Genetics](#)**

**[4 wks](#)**

Rotation includes experience in the general genetics, inherited metabolic diseases, muscle, neurocutaneous, and outreach clinics. Students will participate in diagnosis, pedigree assessment and management, complete consultations with faculty, attend conferences, and visit laboratories.

**PEDS 8009 [Peds Infectious Disease](#)**

**[2 or 4 wks](#)**

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

**PEDS 8010 [EPAC Individualized Elective](#)**

**[2-12 wks](#)**

This course allows students in the Education in Pediatrics Across the Continuum (EPAC) to develop an individualized learning experience. This may include rotations in areas that do not have an existing course or a combination of experiences across courses.

**PEDS 8011 [Peds Pulmonary Disease](#)**

**[2-4 wks](#)**

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 case discussion on a pediatric pulmonary topic.

**PEDS 8012 [Pediatric Neurology](#)**

**[4 wks](#)**

Prerequisites: Must have completed all 3rd year clerkships. Visiting students will be vetted by faculty.

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](#)**

**[2 or 4 wks](#)**

Patients with abnormalities of growth and sexual development, thyroid disorders, and diabetes mellitus are evaluated and treated. Extended diagnostic testing and management are conducted on ward rounds, in endocrine and diabetes clinic, and in clinical research clinics.

**PEDS 8015 [Peds Neonatology Sub I](#)**

**[4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

Student actively participate in the care of critically-ill infants including work rounds, attending rounds, conferences and night call. Experience will be gained in procedures and ventilator management. Students are assigned to University Hospital, Denver Health, or Children's Hospital.

**PEDS 8018 [General Academic Peds](#)**

**[4 wks](#)**

This course offers experience in a busy, urban ambulatory pediatrics clinic at Children's Hospital. Students will learn about assessment and treatment of general pediatric illnesses and normal development and be trained in techniques for offering anticipatory guidance.

**PEDS 8020 [Adolescent Medicine](#)**

**[4 wks](#)**

**[Fall, Spring Sems.](#)**

**Restrictions:** This course is not offered in the summer while school-based clinics are out of session.

This elective provides basic knowledge and clinical skills in diagnosis and management of medical problems during adolescence, including development of skills in interviewing and counseling adolescents in various health care settings.

**PEDS 8021 [Peds Disability Medicine](#)**

**[4 wks](#)**

**[All Sems.](#)**

Pediatric Disability Medicine is a four-week course designed to give students exposure to important concepts of disability, issues affecting children with disabilities and their families, multidisciplinary clinical care of this population and an introduction to transition to adulthood.

**PEDS 8022 [Peds Gastroenterology](#)**

**[2 or 4 wks](#)**

Restrictions: not available section 9.

This rotation is designed for students with a specific interest in pediatrics and/or gastroenterology. Students participate in pediatric gastroenterology inpatient and outpatient services, procedures and scheduled conferences.

**PEDS 8023 [Healthy Beginnings Clinic 4<sup>th</sup> Year Manager](#)**

**[2 wks](#)**

**[Fall, Spring Sems.](#)**

Prerequisites: Students must be members of the Warren Village Healthy Beginnings Clinic Steering Committee.

Fourth year course for students who are already members of the Warren Village Healthy Beginnings Clinic Steering Committee. Students will continue to attend meetings and manage clinic. They are also expected to lead teaching and clinical development of students.

**PEDS 8024 [Child Development/Behav.](#)**

**[2 or 4 wks](#)**

Medicals 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. Primarily observational.

**PEDS 8025 Peds Emergency Medicine**

**4 wks**

**Restrictions:** Experience at Children's Hospital Colorado. See EMED 8017 for experience at DHMC.

**Prerequisites:** Must have completed all 3rd year clerkships. Visiting students will be vetted by faculty

Students gain experience in assessment and management of common conditions in Children's Hospital Colorado emergency department including minor emergencies, acutely ill children, and traumatic diagnoses. Procedural experience at student's level, and at attending's discretion, will also be gained.

**PEDS 8026 Pediatric Nephrology**

**2 or 4 wks**

Students will actively participate in the care and evaluation of patients with common pediatric renal conditions such as hematuria, proteinuria, electrolyte disturbances, chronic renal insufficiency, hypertension, hemodialysis, peritoneal dialysis, and renal transplantation.

**PEDS 8027 Pediatric ICU Sub-I**

**4 wks.**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

The student assumes responsibility for the care of critically ill children and will learn pathophysiology of critical illness, enhance skills in reporting and interpreting clinical data, and gain experience in the diagnosis and therapy of a broad spectrum of illnesses.

**PEDS 8029 Breastfeeding Management**

**2 wks**

**Prerequisites:** Contact Dr. Maya Bunik and Laura Primak 2 weeks prior to start [Laura.Primak@uchsc.edu](mailto:Laura.Primak@uchsc.edu).

An introduction to breastfeeding as a medical topic, with precepting by lactation specialists at clinical sites and self-directed learning through complementary activities. Assessment and management of mother/infant breastfeeding dyad.

**PEDS 8030 Vaccination in Pediatrics**

**4 wks**

**Prerequisites:** Must have completed all 3rd year clerkships.

Students develop extensive knowledge in ambulatory general pediatrics with an emphasis on vaccine preventable diseases. Experiences include didactics on vaccination, vaccine screening, advocacy, and report writing. Exposure to laboratory vaccine research supported but requires availability.

**PEDS 8031 Pediatric Hematology/Oncology**

**2 or 4 wks**

Provides a good overview of pediatric, hematology and oncology and exposures to a wide variety of diagnostic and therapeutic problems. Students participate in educational sessions, outpatient clinics and inpatient management.

**PEDS 8032 Pediatric Radiology**

**2 or 4 wks**

**Prerequisites:** Must have completed all 3rd year clerkships.

The Department of Diagnostic Radiology at Children's Hospital Colorado offers a 2 or 4 week pediatric radiology elective rotation. Here students will gain exposure to all imaging modalities including: radiology, ultrasound, fluoroscopy, nuclear medicine (including PET/CT, CT and MRI). Additionally students are encouraged to attend the many departmental and inter-department conferences. This valuable experience will assist in understanding the basics of pediatric imaging and correlation with anatomy and pathology. Ultimately, this experience will aid in improving pediatric care and guide you in ordering appropriate exams. The goals of the rotation are to develop skills in basic image interpretation and learn indications for specific diagnostic modalities.

**PEDS 8050 Pediatric Gastroenterology – Colorado Springs**

**4 wks**

Students will see patients in the pediatric GI inpatient and outpatient setting. Students will be exposed to common GI procedures. The rotation is designed for students with specific interest in pediatrics and gastroenterology.

**PEDS 8051 Pediatric Cardiology – Colorado Springs**

**2-4 wks**

This elective provides an opportunity to become acquainted with the special diagnostic and therapeutic problems of the infant and child with heart disease. Diagnosis by history, physical exam, electrocardiography (fetal and pediatric) chest x-ray, etc. will be emphasized.

**PEDS 8100 PEDS Elective Away**

**2 or 4 wks**

**Prerequisites:** Department approval must be obtained. This must be completed at least one month in advance of start.

**Restriction:** Sections 49-50 not available.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**PEDS 8600 Research in Pediatrics**

**2, 4, 8, or 12 wks**

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean of Student Affairs.

**Course Restrictions:** Sections 49-50 not available.

This course provides an opportunity for students to participate in clinical or basic science research. The student must identify a research project and mentor and receive approval the course director. Course is graded on a pass/fail basis only.

**PEDS 8630 PEDS Research Away**

**2, 4, or 8 wks**

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Sections 49-50 not available.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and here may be additional requirements for these.

**PHYSICAL MEDICINE AND REHABILITATION ELECTIVES**

**PHMD 8000 Physical Med & Rehab**

**2 or 4 wks**

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 8100 PHMD Elective Away**

**2 or 4 wks**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**PHMD 8600 [Research Physical Med](#)**

[2, 4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

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

<b>PREVENTIVE MEDICINE ELECTIVES</b>
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**PRMD 8003 [Specialty Preventive Med](#)**

[4 or 8 wks](#)

**Prerequisite:** Course Director approval required to add course.

Designed for students interested in exploring the field of preventive medicine. Tailored educational experiences in the Denver area in a variety of settings. Speak with the course director to design this elective.

**PRMD 8006 [Dir Study Ethics/Humanit](#)**

[2, 4, or 8 wks](#)

**Prerequisite:** Course Director Approval required to add course.

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.

**PRMD 8100 [PRMD Elective Away](#)**

[2 or 4 wks](#)

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

Restrictions: Not available sections 49-50.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**PRMD 8600 [Research Preventive Med](#)**

[2, 4, 8, or 12 wks](#)

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

Designed for students interested in preventive medicine research. Tailored research experiences in the Denver area can be established in a variety of settings. Speak with the course director to design this elective.

**PRMD 8630 [PRMD Research Away](#)**

[2, 4, or 8 wks](#)

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

<b>PSYCHIATRY ELECTIVES</b>
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**PSYM 8000 [Advanced Adult Inpatient Psychiatry \(Phase IV Scheduler\)](#)**

[4 wks.](#)

**Course Restrictions:** This is a rigorous and challenging rotation which will help prepare students for management of ill psychiatric patients no matter their career choice. Students considering psychiatry as a career should take a required sub-internship in medicine, family medicine, pediatrics or surgery.

Students take responsibility as primary provider for seriously ill patients, work closely with treatment team directed by an attending psychiatrist. Students assume responsibilities for care of patients that interns typically assume: performing H&Ps, writing orders, giving "bad news" when appropriate.

**PSYM 8001 [Primary Care Substance Problem](#)**

[2 or 4 wks](#)

**Prerequisites:** Course Director approval required to add course.

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.

**PSYM 8003 [Elective in Psychiatry](#)**

[2, or 4 wks](#)

**Prerequisite:** Contact coordinator to confirm availability.

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 psychiatry units as a member of a treatment team.

**PSYM 8004 [Advanced Child & Adolescent Inpatient Psychiatry](#)**

[4 wks](#)

**Prerequisite:** Contact coordinator to confirm availability.

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.

**PSYM 8006 [Clinical PSYM Consultation/Liaison](#) [4 wks](#)**

**Prerequisite:** Contact coordinator to confirm availability.

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.

**PSYM 8007 [Clinical PSYM Emer Srvs](#) [4 wks](#)**

**Prerequisite:** Contact coordinator to confirm availability.

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.

**PSYM 8008 [Forensic and Correctional Psyc](#) [4 wks](#)**

**Prerequisite:** Contact coordinator to confirm availability.

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 by reason of insanity as well as the treatment and restoration process.

**PSYM 8009 [Clinical PSYM Addiction](#) [4 wks](#)**

**Prerequisite:** Contact coordinator to confirm availability.

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, cocaine, interpretation of drug testing results, proper prescribing practices.

**PSYM 8010 [Clin PSYM Eating Dsordrs](#) [4 wks](#)**

**Prerequisite:** Contact coordinator to confirm availability.

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.

**PSYM 8100 [PSYM Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**PSYM 8600 [Research in Psychiatry](#) [2, 4, 8, or 12 wks](#)**

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

Research electives in various areas of Psychiatry. Contact Sharon Hunter, PhD for menu of research options.

**RADIOLOGY ELECTIVES**

**RADI 8000 [Diagnostic Radiology](#) [4 wks](#)**

**Course Restrictions:** Course not available sections 29 and 33.

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 8001 [Radiology for Non-Radiologists](#) [2 wks](#) [Spring Sem.](#)**

**Course Restrictions:** Course not available sections 29 and 33.

Two-week course providing specialty focused radiology education, designed to help students be prepared for both internship year and their future career. Students will spend time with specific sub-specialty trained radiologists, based on interest, while reviewing foundational radiology course work.

**RADI 8002 [Nuclear Medicine](#) [2 or 4 wks](#)**

**Course Restrictions:** Course not available sections 29 and 33.

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 8007 [Interventional Radiology](#) [2 or 4 wks](#)**

Interventional Radiology is the diagnosis and treatment of disease conditions using minimally invasive image (fluoroscopy, US, CT) guided procedures. The student will round with the team, participate in procedures, and attend daily conferences. Only 2 days of absence permitted in 4-week course and 1 day of absence in 2-week course.

**Course Schedule:** (May-Dec): 1 student for 2-week course and 1 student for 4-week course (Jan-April).

**RADI 8050 [Interventional Radiology – Colorado Springs](#) [2 wks](#)**

Patient care in relation to interventional radiology-inpatient setting. Procedures may include intravascular emergencies, lines, PEG tube - CT guided procedures; ultrasound guided procedures; drain placements and observing radiology readings.

**RADI 8100 [RADI Elective Away](#) [2 or 4 wks](#)**

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start. If the rotation is not a formal course given at another medical school/hospital, the student must also provide a description of duties/responsibilities to be performed during the rotation.

**Course Restrictions:** Not available sections 49-50.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**RADI 8600 [Research in Radiology](#) [2, 4, 8, or 12 wks](#)**

**Prerequisites:** Approval must be obtained from the course director prior to starting the course. For rotation approval, the student must provide: 1) Name and contact information for the research mentor (address, email address and phone number); 2) Approval from the mentor; 3) The topic of your research project(s); 4) The goals for your project/research time. End of rotation summary of work performed/completed signed by the research mentor must be submitted to the course director along with the written evaluation before Phase 4 medical students

perform clinical or basic science research under the supervision of a Radiology faculty member. Project is defined with individual mentor and approved by course director. Course is graded on a pass/fail basis.

**RADI 8630 [RADI Research Away](#)**

**[2, 4, or 8 or 12 wks](#)**

**Prerequisite:** Approval must be obtained from the course director prior to starting the course. For rotation approval, the student must provide: 1) Name and contact information for the research mentor (address, email address and phone number); 2) Approval from the mentor; 3) The topic of your research project(s); 4) The goals for your project/research time. End of rotation summary of work performed/completed signed by the research mentor must be submitted to the course director along with the written evaluation before

Phase 4 medical students perform clinical or basic science research under the supervision of a Radiologist at a site in Colorado or another state. Project is defined with individual mentor and approved by course director. Course is graded on a pass/fail basis. Duration: 2, 4, or 8 or 12 weeks

<b>RADIATION ONCOLOGY ELECTIVES</b>
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**RAON 8005 [Radiation Oncology](#)**

**[4 or 8 wks](#)**

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

**RAON 8100 [RAON Elective Away](#)**

**[2 or 4 wks](#)**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**RAON 8600 [Research RAD Oncology](#)**

**[4, 8, or 12 wks](#)**

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean of Student Affairs.

This elective is designed to acquaint the student with current research developments, knowledge and techniques in radiation oncology.

**RAON 8630 [RAON Research Away](#)**

**[2, 4, or 8 wks](#)**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

<b>SURGERY ELECTIVES</b>
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**SURG 8000 [Gen Surgery Univ. Sub-I](#)**

**[4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

This General Surgery Sub-I rotation is designed to provide medical students with broad cognitive, procedural, and communication skills to appropriately manage surgical patients in the IP/OP clinical setting of the University of Colorado Hospital.

**SURG 8001 [Gen Surgery DHMC Sub-I](#)**

**[4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

**Prerequisite:** Course director approval required to add this course. A mentor will be required.

Acute Care Surgery Team at a Level I Trauma Center. Course emphasizes pre- and postoperative evaluation, O.R. decisions making and clinical research. Student will attend clinics, rounds, conferences and surgical procedures. A Faculty Mentor is for the research component.

**SURG 8002 [Gen Surgery St. Joseph's Sub-I](#)**

**[4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

Held at Exempla St. Joseph Hospital with emergency & elective surgery. Emphasize pre- and postoperative care. Graduated operating room experience and exposure to skills lab. Active participation in Caritas Surgery Clinic. Housestaff team assignments (Blue Surgery service). Active daily conferences, including Grand Rounds, M and M, and Tumor Board.

**SURG 8008 [Cardiothoracic Surgery Sub-I](#)**

**[4 wks](#)**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

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](#)**

**[4 wks](#)**

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. There will be a lot of operating experience.



**SURG 8011 Hand Surgery****2 or 4 wks**

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 8012 Urology Sub-I****4 wks**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

All students will rotate two weeks blocks at UCH, VA, CHCO, and DH. One week will be with the residents to familiarize yourself with the system and clinical practice. The second week you will be with an attending physician and will participate in clinic, the operating room and round on patients.

**SURG 8015 Pediatric Surgery****2 or 4 wks**

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 8019 Plastic Surgery****2 or 4 wks**

Students learn basic principles of wound healing, care, and management; management and reconstruction of maxillofacial trauma; head and neck cancer; congenital anomalies; tissue transplantation; cosmetic surgery; and plastic/reconstructive management of post-burn and post-surgical patients.

**SURG 8021 Surgical Critical Care Sub-I****4 wks**

**Graduation Requirement: This course meets the UC SOM Sub-I requirement.**

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.

**SURG 8030 Transplant Surgery****4 wks**

Medical student will round with transplant team, which includes: Surgeons, Nephrologists, and Hepatologists. They will be exposed to all aspects of transplant care including preoperative work up, donor surgery, transplant surgery, post-operative care.

**SURG 8050 Trauma Surgery – Colorado Springs****2-4 wks**

Patient care in emergency surgery/acute care surgery and trauma. Student will participate with inpatient, outpatient and clinic patients. Student will see pre-op, post-op, and emergency patients. Only open June and July. Enrollment limit June and July: 3. Enrollment limit if offered August-May: 1.

**SURG 8051 Plastic Surgery – Colorado Springs****2 wks**

Patient care in both emergency, plastic surgery such as acute major lacerations, cartilage repair, bone repair of face, skin grafting, flap repairs with soft tissue loss. Patient care in elective plastic surgery including all cosmetic surgery.

**SURG 8052 Surgical Critical Care – Colorado Springs****2-6 wks**

The surgical care clerkship involves the student in the management of medical technology and coordination with a multidisciplinary staff in evidence-based, goal-oriented, humanistic treatment of critical illness.

**SURG 8100 SURG Elective Away****2 or 4 wks**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

**SURG 8600 Research in Surgery****2, 4, 8, or 12 wks**

**Prerequisites:** Special permission from the department and individual arrangements must be completed and then the student must receive prior approval from the Associate Dean for Student Affairs.

This research surgery elective will be held at a site in Colorado or another state. Students must obtain departmental approval one month prior to start.

**SURG 8630 SURG Research Away****2, 4, or 8 wks**

**Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. These must be completed at least one month in advance of start.

**Course Restrictions:** Sections 49-50 not available.

This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.