PHASE I – REQUIRED CURRICULUM FALL SEMESTER 2015

IDPT 5000  Foundations Doctoring 1 2.0 cr.
Course Director, Wendy Madigosky, MD Assistant Director, Kristin Furfari, MD and Todd Guth, MD, Course Coordinator, Tina Roquemore, 303-724-6421.
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.
Course Co-Directors, Michael Carry, PhD, 303-724-2411 and Steven Britt, MD, 303-724-3441.
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 ad radiological images. Clinical case discussions will be integrated with physical exam material.

IDPT 5002  Molecules to Medicine 8.0 cr.
Course Director, Robert Low, MD, PhD, 303-724-4307 and Matthew Taylor, MD, PhD, 303-724-1400.
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 5015  Basic Card Life Support 0.5 cr.
Course Director, Kristen Fufari, MD, Course Coordinator, Veronica Paradise 303-724-4559.
Course will be taught along American Heart Association (AHA) guidelines utilizing lecture, video, demonstrations on mannequins and a practice session. Students will read the required text prior to course, pass a written examination, and demonstrate performance skills essential to BCLS.

IDPT 5090  Mentored Scholarship I 1.0 cr.
Course Director, Allan Prochazka, MD Course Coordinator, Meleah Himber, 303-724-4161, Jessica Hitt-Laustsen, Jessica.Hitt-
Laustsen@ucdenver.edu.
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 Director: Randy Ross, MD 303-724-6203 randy.ross@ucdenver.edu
Students complete training in citation manager software and initiate mentor-guided research.
Course Restrictions: Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

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.
Course Co-Directors, Tim Garrington, MD, 720-777-8365 and Jill Slansky, PhD, 303-398-1887.
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 Co-Directors, Ronald E. Gill, PhD, 303-724-4230 and Bruce McCollister, MD, 303-724-4216.
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/Pulm/Renal 6.0 cr.
Course Co-Directors, Rock Levinson, PhD, 303-724-1544 and Lawrence Honwitz, MD 303-724-2089.
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.
Course Director, Allan Prochazka, MD.  Course Coordinator, Meleah Himber, 303-724-4161, Jessica Hitt-Laustsen, Jessica.Hitt-Laustsen@ucdenver.edu
A continuation of course begun in fall semester.

IDPT 5095  Research Track Phase I  1.0 cr.
Course Director: Randy Ross, MD 303-724-6203 randy.ross@ucdenver.edu
Students complete training in citation manager software and initiate mentor-guided research.
Course Restrictions: Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

IPED 5002  Interprofessional Education and Development I  1.0 cr.
Course Director, Wendy Madigosky, Course Coordinator, Reesie Roland, 303-724-6389.
Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students.  This course includes basic knowledge and skills in ethical theory and reasoning, professional ethics, and inter-professional approaches to health care decision making.
Course catalog: 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 2015

IDPT 6000  Foundations Doctoring II  2.0 cr. /Sem.
Course Director, Wendy Madigosky, MD, Assistant Directors, Kristin Furfari, MD, and Todd Guth, MD, Course Coordinator, Tina Roquemore, 303-724-6421.
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 Co-Directors, Tom French, PhD, 303-724-3387 and Steven Ojemann, MD, 303-724-2285.
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.
Course Directors, John Tentler, PhD, John.Tentler@ucdenver.edu, Virginia Sarapura, MD, 303-724-3931 and Daniel Bessesen, MD, 303-436-5910.
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.
Course Director, Allan Prochazka, MD. Course Coordinators, Meleah Himber, 303-724-4161, Jessica Hitt-Laustsen, Jessica.Hitt-Laustsen@ucdenver.edu.
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 Director: Randy Ross, MD 303-724-6203 randy.ross@ucdenver.edu
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.
Course Restrictions: Must be a Research Track Student, this course replaces the Mentored Scholarship requirement.

IPED 6001  Interprofessional Education and Development II  1.0 cr.
Course Director, Wendy Madigosky, Course Coordinator, Reesie Roland, 303-724-6389.
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  Course catalog: 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 FOR SPRING SEMESTER 2016**

**IDPT 6000 Foundations Doctoring II**
Course Director, Wendy Madigosky, MD, Assistant Directors, Kristin Furfari, MD, and Todd Guth, MD; Course Coordinator, Tina Roquemore, 303-724-6421.
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**
Co-Course Directors, Andy Bradford, PhD, 303-724-3507 and Sonya Erickson, MD, 303-724-2038.
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**
Co-Course Directors, David Barton, PhD, 303-724-4215 and Edward Janoff, MD, 303-724-4936
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**
Course Director, Allan Prochazka, MD; Course Coordinator, Meleah Himber, 303-724-4161, Jessica Hitt-Laustsen, Jessica.Hitt-Laustsen@ucdenver.edu.
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**
Course Director, Randy Ross, MD. Course Coordinator, Meleah Himber, 303-724-4161.
**Prerequisite:** Required if enrolled in Research Track, taken in place of IDPT 6095. **Instructor consent required.**
1. Demonstrate progress towards the completion of your research project and publicly communicate understanding of the project to others
   a. Present WIP to peers and faculty in an oral presentation
   b. Effectively respond to comments and questions from peers about your research efforts
   c. Identify scientific questions when others present

**DERMATOLOGY ELECTIVE**

**DERM 6660 Career Elective in DERM**
Course Director, Cory Dunnick, MD Cory.Dunnick@ucdenver.edu, 720-848-0585.; Course Coordinator, Victoria Bass, Victoria.bass@ucdenver.edu. 720-848-0597
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.

**EMERGENCY MEDICINE ELECTIVES**

**EMED 6620 History of Pharmacology and Toxicology**
Course Director, Kennon Heard Kennon.Heard@ucdenver.edu.
**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**
Course Director, Barbara Blok, MD 720-848-6777.  Course Coordinator, Course Director. Tracy Cushing.  Tracy.Cushing@ucdenver.edu. 720-848-7648.
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**
Course Director, Whitney Barrett MD, Whitney.Barrett@dhha.org. Co-Director, Christopher Cowell, Christopher.Cowell@dhha.org
Course Schedule: Two classroom meetings and one 10-hour ride along during the semester
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**
Course Directors Jeffrey Druck, MD Jeffrey.Druck@ucdenver.edu and Maria Moreira, MD. Maria.Moreira@ucdenver. Course Coordinators, Cathy Maciel,720-848-6767.
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**
Course Director, Whitney Barrett MD, Whitney.Barrett@dhha.org. Course Director, Christopher B. Colwell, MD, 303-436-6966.
Course Schedule: Two classroom meetings and one 12-hour day with Flight for Life during the semester.
Pre-requisite: EMED 6626 Pre-Hospital Medicine.
The student will attend one lecture to orient them to the basic principles of 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.

**EMED 6629  Emergency Med Skills**
Course Director, David Richards, MD, FACEP, David.richards@dhha.org. 303-602-5190.  Course Coordinator, Marie Bluitt, Marie.Bluitt@dhha.org. 303-602-5185.
Course Schedule: 6-8 hour shifts scheduled individually with each student. After Human Body Block finishes-October 19, through Winter Break.
Restriction: Phase I students only. Instructor Approval
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.

**EMED 6630  Emergency Med in South Africa**
Course Director, David Richards, MD. FACEP.
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.

**FAMILY MEDICINE ELECTIVES**

**FMMD 6624  Stout Street Health Center**
Course Director, David Gaspar, MD, 303-724-0971. Course Coordinator, Steven Cruse, 303-724-0975.
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
Course Director, Mark Deutchman, MD, Course Coordinator, Melanie Deherrera, 303-724-9240
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
Course Director, Mark Deutchman, MD, 303-724-9725, Mark.deutchman@ucdenver.edu
Course Coordinator, Melanie Deherrera, 303-724-0340, Melanie.deherrera@ucdenver.edu
Course Restrictions: For Rural Track Students Only.
Course Schedule: Wednesdays 1-3 p.m.
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.

INTERDEPARTMENTAL ELECTIVES

IDPT 5091 MSA Summer Elective
Course Director, Allan Prochazka, MD. Course Coordinator, Meleah Himber, Jessica Hitt-Laustsen, Jessica.Hitt-Laustsen@ucdenver.edu
Prerequisite: MSA 5090.
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 6612 Critical Evidence Appraisal
Course Director, Tim Byers, MD, MPH Tim.Byers@ucdenver.edu.
Prerequisite: IDPT 5002 Molecules to Medicine.
Course Restriction: Class meets Mondays 12:00 Noon – 1:30 PM January-March.
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.
IDPT 6613 Culinary Medicine Elective
Course Director, Mark Deutchman, MD., Mark.Deutchman@ucdenver.edu, 724-9725 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
Course Schedule - Four Wednesday afternoons from 3-5 p.m.
Course Director, John Kendall, John.Kendall@ucdenver.edu,
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.
IDPT 6616 Health Promotion I
Course Director, Chad Morris, PhD Chad.Morris@ucdenver.edu., Course Coordinator, Cindy Morris, Cindy.Morris@ucdenver.edu, 303-724-6329.
Work & Well-Being is designed to help medical students facilitate their individual and workplace well-being. The lecture/discussion format provides students the opportunity to gain the knowledge, skills and strategies to become healthy, balanced and resilient physicians.
IDPT 6623 Refugee Health I
Course Director, Paritosh Kaul, MD, 720-777-6116, Paritosh.Kaul@childrenscolorado.org
Course Schedule: 10-week course held spring semester, Wednesdays from noon to 1 pm.
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.
IDPT 6629 SABES Spanish Immersion Fall and Spring Sems. 1.0 cr  
Course Director, Steven Lowenstein, MD, MPH. 720-848-6777. 
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, Max: 20  
Course Director, Steven Lowenstein, MD, MPH. 720-848-6777.  
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 6636 Summer Preceptor Exp Summer Sem. 1.0 cr.  
Course Director, Kristin Furfari, MD. Course Coordinator, Tina Roquemore, 303-724-6421.  
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 6639 Health Care-Public Policy Fall and Spring Sems. 1.0 cr.  
Course Director, Gary VanderArk, MD. 303-724-2287. Course Coordinator, Krystin Martinez, 303-724-2299. Course meets Tuesday, 12:00 Noon to 1:00 PM. Health care in public policy, work with course director and Colorado Medical Society to collaboratively research current issues in health policy. Students gain an expanded awareness of current issues in healthcare policy and an appreciation for relationship between medicine/politics.

IDPT 6647 LEADS 2 Fall Sem. 1.0 cr, Min: 10/Max: 20  
Course Director, Jeremy Long, MD. Course Coordinator, Linda Salas, 303-724-4639  
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, Min: 01/Max: 48  
Course Director, Erik Wallace, MD. Course Coordinator, Sharon Marston, 719-255-8083.  
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 21st 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 cr  
Course Director, Jennifer Bellows, MD. 303-436-6884. MD. Course Coordinator, Meleah Himber, Jessica Hitt-Laustsen, Jessica Hitt-Laustsen@ucdenver.edu.  
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 Directors, Jennifer Bellows, MD, 303-436-6884. Course Coordinator, Meleah Himber, Jessica Hitt-Laustsen, Jessica Hitt-Laustsen@ucdenver.edu. 303-724-4161.  
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.
the practice of medicine. The course facilitates students in clarifying, strengthening, and making a personal commitment to understanding and interpreting literature and an appreciation of how biology impinge on health care. Students will experience immersion in Spanish language and have clinical and community exposure.

**MEDICINE ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Terms</th>
<th>Credits</th>
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<tbody>
<tr>
<td>MEDS 6621</td>
<td>Geriatric Medicine</td>
<td>Fall and Spring Sems.</td>
<td>2.0 cr.</td>
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<td>Max: 3</td>
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<td></td>
<td>Course Directors, Skotti Church (<a href="mailto:Scoti.Church@ucdenver.edu">Scoti.Church@ucdenver.edu</a>) and Karen Shea (<a href="mailto:Karen.Shea@ucdenver.edu">Karen.Shea@ucdenver.edu</a>). Course Coordinator, Andrea Chisel (<a href="mailto:Andrea.Chisel@ucdenver.edu">Andrea.Chisel@ucdenver.edu</a>). 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, Lynn Blair two weeks prior to starting the elective. (Students are required to contact the course coordinator the day they register.)</td>
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<td>MEDS 6626</td>
<td>Molecular Biology Cancer</td>
<td>Fall Sem.</td>
<td>1.0 cr.</td>
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<td>Course Director, John Tenti, PhD, 303-724-3887. Course Coordinator, Everlyn Sandalvall, 303-724-3872. Provides an overview of molecular events that occur in the cell that relate to the origins of neoplasia. Provides students the ability to understand and interpret literature and an appreciation of how biology impinge on the practical treatment of cancer.</td>
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<td>MEDS 6629</td>
<td>The Healer’s Art</td>
<td>Spring Sem.</td>
<td>1.0 cr.</td>
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<td>Co-Course Directors, Rachel Swigis, D.O., 720-848-9526 and Rita Lee, MD, 720-848-2340. 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.</td>
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MEDS 6632 Lit, Art, & Medicine

Fall Sem. 1.0 cr. Max: 20/Min: 4
Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, Amanda McGuigan, Amanda.McGuigan@ucdenver.edu, 303-724-3994. 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

ORTHOPEDIC ELECTIVES

ORTH 6620 Intro to Orthopedics

Spring Sem. 1.0 cr. Max: 30/Min: 10
Course Director, Frank Scott, MD, 303-724-2968. Course Coordinator, Kelly Wright, 303-724-7354. 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 Director, Ted Leem and Adam Terella, MD, 303-724-1957. Course Coordinator Vicki Muscatello, Vicki.Muscatello@ucdenver.edu
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 subspecialty 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. Max: 3
Course Director, Paul Wadwa, MD, 303-724-6719. 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. Max: 20/Min: 8
Course Director, Stephanie Stevens, MD. Course Coordinator, 303-699-6200. 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. Max: 15/Min: 4
Course Director, Abraham Nussbaum, Abraham.Nussbaum@ucdenver.edu, 303-724-2229. Course Coordinator, Angela WebbAngela.Webb@ucdenver.edu, 303-724-7401. 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  Spring Sem.  1.0 cr.  Max: 20/Min: 4
Course Directors, Michael Weissberg, MD Course Coordinator, Angela.Webb@ucdenver.edu, 303-724-7401, 303-724-7401.
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 6622 Denver CARES Elective  Fall and Spring Sems.  1.0 cr.
Course Directors, Charles Shuman, MD and Michael Weissberg, MD. Associate Director, Bob Davies, MD, 303-724-2229. Course Coordinator, Angela Webb, Angela.Webb@ucdenver.edu 303-724-7401.
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.
Course Director, Joseph Sakai, MD, 303-724-3182. Associate Director, Bob Davies, MD, 303-724-2229. Course Coordinator, Angela Webb, Angela.Webb@ucdenver.edu 303-724-7401.
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 ELECTIVES

SURG 6660 Career Elective In UROL  All Sems.  1.0 cr.
Course Director, Ty Higuchi, MD, Course Coordinator, Kathy Politis 303-724-2712, Therese Inman 303-724-7800.
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 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 CLINICAL CLERKSHPs FOR 2015-2016

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

IDPT 7000  Foundations Doctoring 3  All Sems  Var.cr.
Course Directors, Wendy Madigosky, MD and Kristin Furfari, MD. Course Coordinator, Tina Roquemore, 303-724-6421.
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.

IDPT 7001 Integrated Clinicians 1  Spring Sem.  2.0 crs.
Course Directors, Jeffrey Druck, MD., Nichole Zehnder, MD. Course Coordinator, Annie Osendorf, 303-724-4558.
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.

IDPT 7002 Integrated Clinicians 2  Fall Sem.  2.0 crs.
Course Directors, Jeffrey Druck, MD, Nichole Zehnder, MD. Course Coordinator, Annie Osendorf, 303-724-4558.
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 7003 Integrated Clinicians 3  Spring Sem.  4.0 crs.
Course Directors, Jeffrey Druck, MD., Nichole Zehnder, MD. Course Coordinator, Annie Osendorf, 303-724-4558.
Course offered spring semester end of Phase III clerkship.
Through didactic and small group sessions, students will learn advanced clinical skills, translational basic science, and thread material that is vital to doctoring, but underrepresented in clinical blocks, and also learn critical skills for successful sub-internship and critical care experiences.

IDPT 7010 Hospitalized Adult Care  All Sems.  16.0 crs.
Course Directors, Nicole Zehnder, MD and Adam Trosterman, M.D. Course Coordinator, Steve Cruse, 303-724-0975.
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. Lukes, Veterans Affairs Medical Center, Exempla, St. Joseph’s, Rose Medical Center.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Notes</th>
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<tbody>
<tr>
<td>IDPT 7012</td>
<td>Longitudinal Integrated Clerkship</td>
<td>All Sems</td>
<td>2 crs</td>
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<td>Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  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.</td>
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<tr>
<td>IDPT 7013</td>
<td>Longitudinal Integrated Medicine</td>
<td>All Sems</td>
<td>4-6 crs</td>
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<td>Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  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.</td>
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<tr>
<td>IDPT 7020</td>
<td>Infant/Adolescent Care</td>
<td>All Sems</td>
<td>12.0 crs</td>
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<td>Course Director, Jennifer Soep, MD, MSPH, 720-777-6132.  Course Coordinator, Brenda Cordova, 720-777-6867.  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.</td>
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<tr>
<td>IDPT 7021</td>
<td>Musculoskeletal Care</td>
<td>All Sems</td>
<td>4.0 crs</td>
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<td>Co-Director, William Sullivan, MD.  Course Coordinator, Kelly Wright, 303-724-7354.  This block combines Orthopedics, Rheumatology, Physical Medicine and Rehabilitation, basic science, and thread topics to develop competency in history, physical exam skills and the use of laboratory data and basic imaging studies to diagnose, treat, and prevent abnormalities of the musculoskeletal system.</td>
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<tr>
<td>IDPT 7022</td>
<td>Longitudinal Pediatrics (LIC)</td>
<td>All Sems</td>
<td>2-4 crs</td>
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<td></td>
<td>Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  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.</td>
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<tr>
<td>IDPT 7030</td>
<td>Women and Newborn Care</td>
<td>All Sems</td>
<td>12.0 crs</td>
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<td>Course Director, Kristina Tocce, M.D.  Course Coordinator, Deborah Jackson, 303-724-2031.  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.</td>
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<tr>
<td>IDPT 7031</td>
<td>Emergency Care</td>
<td>All Sems</td>
<td>4.0 crs</td>
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<td>Co-Course Directors, Kelley Roswell, M.D. and David Matero, M.D.  Course Coordinator, Marybeth Hutchins, 720-848-6768.  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.</td>
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<tr>
<td>IDPT 7032</td>
<td>Hospitalized Adult Care</td>
<td>All Sems</td>
<td>16.0 crs</td>
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<td>Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  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.</td>
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<tr>
<td>IDPT 7033</td>
<td>Longitudinal Emergency Med (LIC)</td>
<td>All Sems</td>
<td>5 crs</td>
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<td></td>
<td>Course Directors, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  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.</td>
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<tr>
<td>IDPT 7040</td>
<td>Psychiatric Care</td>
<td>All Sems</td>
<td>8.0 crs</td>
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<td>Course Director, Michael Weissberg, M.D.  Course Coordinator, Sharon Campbell, 303-724-7400.  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.</td>
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<tr>
<td>IDPT 7041</td>
<td>Neurologic Care</td>
<td>All Sems</td>
<td>8.0 crs</td>
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<td>Co-Directors, Brian Berman, MD 303-724-2194 and Pearce Korb, MD, 720-848-2018.  Course Coordinator, Holly Ables, 303-724-4589.  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.</td>
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<tr>
<td>IDPT 7042</td>
<td>Longitudinal Psychiatry (LIC)</td>
<td>All Sems</td>
<td>2-4 crs</td>
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<td>Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.  This course will focus on psychiatric care of adults and children, and clinical experiences will include ambulatory settings, inpatient units, psychiatric emergency room, consults, and psychiatric specialties. Department Consent Required.</td>
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<tr>
<td>IDPT 7050</td>
<td>Peri/Operative Care</td>
<td>All Sems</td>
<td>16.0 crs</td>
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<td>Co-Course Directors, Paul Montero, M.D. and Alison Brainard, M.D.  Course Coordinator, Mary Kay Anderson, 303-724-2681.  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.</td>
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IDPT 7052  Longitudinal Surgery/Anesthesia (LIC)  All Sems.  4 crs.
Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.
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 Director, Kelly White, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.
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.
Course Director, David Gaspar, M.D.  Course Coordinator, Steven Cruse, 303-724-0975.
An interdisciplinary clerkship where students will participate in the provision of comprehensive patient-centered primary care to 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.
Course Director, Jennifer Adams, M.D.  Course Coordinator, Kristina Oatis, 303-724-0975.
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 7080  Integrated Longitudinal Medicine Clerkship  All Sems.  16 – 32 crs.
Course Director, Caroline LeClair, M.D.  Course Coordinator, Steven Cruse, 303-724-0975.
Course Restrictions:  This course is a longitudinal clerkship integrating components of the Phase 3 HAC, AAC and RA 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.
Course Director, Allan Prochazka, MD.  Course Coordinator, Meleah Himber, 303-724-4161.
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 Phase III  Fall, Spring Sems.  1.0 cr.
Course Coordinator, Randy Ross, MD.  Course Coordinator, Meleah Himber, 303-724-4161.
Prerequisite:  Required if enrolled in Research Track, taken in place of IDPT 7090.  Instructor consent required.

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

IDPT 7727  Directed Study Clinical Sci  All Sems.  2 – 12 wks
Course Director, Maureen Garrity, Ph.D.  Course Coordinator
Prerequisite: Course Director approval required to add.

This course provides an opportunity for medical students to further develop and refine their knowledge of the clinical sciences.  Course will include scheduled study time, regularly scheduled practice exams, tutoring in clinic content and test taking strategies.

PHASE 4 ELECTIVES 2015-2016

Prerequisite for all Phase 4 electives:  Completion of Phase 3

ANESTHESIOLOGY ELECTIVES

ANES 8000  Clinical Anesthesiology  2 or 4 wks  Max: 2
Course Director, Bryan Ahlgren, MD.  303-372-6344.  Course Coordinator, Krystle Wetherbee, 303-724-8373.
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.
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<tr>
<th>Course Code</th>
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<th>Duration</th>
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<tr>
<td>ANES 8001</td>
<td>Surgery Intensive Care Sub-I</td>
<td>4 wks</td>
<td>2</td>
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|             | Course Director, Fareed Azam, MD, 303-266-6420. Course Coordinator, Krystle Wetherbee, 303-724-8373.  
**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.  
**Prerequisite:** ANES 8000  
During this Sub-I multi-disciplinary rotation, students actively participate in patient management, perform procedures, present clinical topics, and discuss pathophysiology of the critically ill. Clinical excellence and an in-depth paper (2000-2500 words) are honors grade requirements. |
| ANES 8002   | ANES Subspecialties               | 2 or 4 wks | 4    |
|             | Course Director, Bryan Ahlgren, MD, 303-372-6344, MD, 720-848-5566. Course Coordinator, Krystle Wetherbee, 303-724-8373.  
**Graduation Requirement:** This course meets the UC SOM Sub-I requirement.  
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, Cardiothoracic, Neurosurgery, Transplant, General OR, General OR at the VA, and Outpatient. |
| ANES 8100   | ANES Elective Away                | 2 or 4 wks | 2    |
|             | Course Director, Bryan Ahlgren, MD, 303-372-6344. Course Coordinator, Krystle Wetherbee, 303-724-8373  
**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 or another state. |
| ANES 8600   | Research Anesthesiology           | 2, 4, 8, or 12 wks | 2    |
|             | Course Director, Paul Wischmeyer, MD 720-956-5229. Course Coordinator, Krystle Wetherbee, 303-724-8373.  
**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. |
| ANES 8630   | ANES Research Away                | 2, 4, or 8 wks | 2    |
|             | Course Director, Paul Wischmeyer, MD, 720-956-5229. Course Coordinator, Krystle Wetherbee, 303-724-8373.  
**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. |

**DERMATOLOGY ELECTIVES**

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<th>Course Code</th>
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<th>Duration</th>
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<tr>
<td>DERM 8000</td>
<td>Dermatology Clinical Elective</td>
<td>2 wks</td>
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|             | Course Director, Cory Dunnick, MD, Course Coordinator, Victoria Bass, 720-848-0597.  
**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    | 4    |
|             | Course Director, Cory Dunnick, MD, Course Coordinators, Victoria Bass, 720-848-0597.  
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 8010   | Derm/Pvt Practice/CO Spgs         | 2 or 4 wks | 1    |
|             | Course Director, Nathan Trookman, MD, 719-471-1763 Ext. 116. Course Coordinators, Victoria Bass, 720-848-0597, Judi Spurgeon, 719-471-1763 Ext. 120  
For housing: [http://ahc.ucdenver.edu/ffinald/](http://ahc.ucdenver.edu/ffinald/).  
Dermatology in private practice is a 4-week clinical elective in a busy, outpatient dermatology practice. The student will rotate in the clinics of Colorado Springs Dermatology Clinic, and will learn general, cosmetic and surgical dermatology. |
| DERM 8300   | DERM Elective Away                | 2 or 4 wks | 2    |
|             | Course Director, Cory Dunnick, MD, Course Coordinators, Victoria Bass, 720-848-0597.  
**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. |
**EMERGENCY MEDICINE ELECTIVES**

**DERM 8600  Research in Dermatology**  
Course Director, Cory Dunnick, MD  
Prerequisite:  
Course Coordinator, Victoria Bass, 720-848-0597.  
Offered sections 47 and 48 only.  
Prerequisite:  
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**  
Course Director, Cory Dunnick, MD  
Prerequisite:  
Course Coordinator, Victoria Bass, 720-848-0597.  
Prerequisite:  
Course Coordinator, Matthew Rustici, MD.  

**EMED 8004  Emergency Med Univ Hosp**  
Course Director, Jason Hoppe, DO, 303-848-6769. Course Coordinator, Marybeth Hutchins, 720-848-6768.  
Prerequisite:  
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**  
Course Director, David Richards, MD, 303-436-7129. Course Coordinator, Brooke Baker, 303-436-7129.  
Course restrictions: Spring semester only, Jan – May.  
Students are primary caregiver for acutely ill/injured patients at DHMC Emergency Department, supervised by Emergency Medicine Staff. Daily lectures in traumatic/medical emergencies, conferences, “board rounds”. Orientation, first day, 7:30 A.M., Admin Conf. room.

**EMED 8006  Emer Med Career Elective**  
Course Director, David Richards, MD, 303-736-7129. Course Coordinator, Brooke Baker, 303-436-7129.  
Course Restrictions: Emergency Medicine Career track students only until Section 21.  
Same as EMED 8005 but directed to students applying to EM Residencies. Mentors assigned/work 4-5 shifts directly with student, discuss EM as a career, CV, personal statement, counsel regarding application/match process for residency, ambulance ride-along.

**EMED 8007  Critical Care & Procedures**  
Course Director, Matthew Rustici, MD, 858-232-8892.  
Course restrictions: Offered in section 45 only.  
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 complete training in management of critically ill patients using procedural skills and simulated patients.

**EMED 8017  Pedes Emergency DHMC**  
Course Director, David Richards, MD, 303-736-7129. Course Coordinator, Brooke Baker, 303-436-7129.  
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**  
Course Director, Eric Lavonas, MD. Course Coordinator, Darlene Vigil, 303-389-1350.  
Introduction to medical toxicology at the Rocky Mountain Poison and Drug Center. Participate in clinical service, inpatient consultative care of DHMC/UH. Conferences and didactic instruction provided weekly. Short presentations required. Exposed to fundamentals of environmental toxicology, public health concerns, occupational toxicology.

**EMED 8030  Rural Emergency Medicine**  
Course Director, Jeff Druck, MD, 720-724-7732. Course Coordinator, Marybeth Hutchins, 720-848-6768.  
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.  
For Housing: http://ahcuc.ucdenver.edu/finaid/.

**EMED 8031  Wilderness Medicine**  
Course Directors, Barbara Blok, MD, 720-848-6777 and Tracy Cushing, MD, 303-436-7146. Course Coordinator, Cathy Maciel, 720-848-6767.  
Course Restrictions: must be a 4th 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 8100  EMED Elective Away** 2 or 4 wks.
Course Director, Jeffrey Druck, MD, 303-724-7732. Course Coordinator, Marybeth Hutchins, 720-848-6768.
**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 or another state.

**EMED 8600  Research in EMED** 2, 4, 8 or 12 wks.  Max: 4
Course Director, Jason Haukoos, MD, 303-436-7141.
**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.

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 or 4 wks.  Max: 150
Course Director, Jeffrey Druck, MD, 303-724-7735. Course Coordinator, Marybeth Hutchins, 720-848-6768.
**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 Affairs, and there may be additional requirements for these.

### FAMILY MEDICINE ELECTIVES

**FMMD 8002  Family Med Univ Hosp Sub-I** 4 wks  Max: 1
Course Director, Caroline LeClair, DO, 720-848-9000. Course Coordinator, Lisa Martinez, 720-848-9100.
**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** 4 wks  Fall, Spring Sems.
Max: 1
Course Director, Caroline LeClair, DO, 720-848-9000. Course Coordinator, Lisa Martinez, 720-848-9100

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
Course Director, David Gaspar, MD Course Coordinator, Steven Cruse, 303-724-0975.
**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 8009  Directed Study in FM** 2, 4, or 8 wks
Course Director, Caroline LeClair, DO, 720-848-9000. Course Coordinator, Steven Cruse, 303-724-0975.
**Prerequisite:** Course director approval required to add this elective.

**Course Restrictions:** Must have directed study goals and objectives approved by Course Director.

Students may participate in scholarly work directed by specific Department of Family Medicine faculty members including curriculum development, patient education projects, and other scholarly activities. Department of Family Medicine MSA or research mentor must supervise and be responsible for evaluations.

**FMMD 8012  Oral Health: Acute Dental** 2 wks  Fall, Spring Sems.
Min:1/Max:4
Course Directors, Mark Deutchman, MD. 303-724-9725, mark.deutchman@ucdenver.edu. Ed Mitinsky, DDS, 303-724-6996.
**Prerequisite:** Course Director approval.

**Course 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.
Course Directors, David Gaspar, MD and Scott Hammond, MD. Course Coordinator, Steven Cruse, 303-724-0975.

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

Students will study the evidence behind the main principles of the PCMH and experience them in action at PCMH-certified clinics.

**FMM 8015 Correctional Health Care**

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<th>2 or 4 wks</th>
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Course Directors, David Gaspar, MD and David Allred, DO. Course Coordinator, Steven Cruse, 303-724-0975.

**Prerequisites:** Specific background check for DCC and pre-elective training required months in advance of elective.

**Course Restrictions:** Prior approval by Course Directors. The elective, at federal correctional facility at Florence, Colorado, will provide students an introduction to care in a non-traditional clinical environment where patients carry a large burden disease of medical and mental health conditions.

**FMM 8016 Colorado FM Residency Program**

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<th>4 wks</th>
<th>Max: 1</th>
</tr>
</thead>
</table>

Course Directors, Caroline LeClair, DO, 720-848-9000. Course Coordinator, Steven Cruse, 303-724-0975.

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

**Course Restrictions:** Required Sub-Is available at Grand Junction, Greeley, Ft. Collins, Pueblo, Rose, St. Antony, St. Joseph, and Swedish FM Residency Programs. Application to and prior approval by the individual residency program is needed. Sub-Internship level experience in managing problems common to Family Medicine at one of eight Colorado FM Residency Programs. Two-thirds inpatient and one-third outpatient emphasizing advanced communication and clinical reasoning skills.

**FMM 8100 FMM Elective Away**

<table>
<thead>
<tr>
<th>2 or 4 wks</th>
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</table>

Course Director, David Gaspar, MD. Course Coordinator, Steven Cruse, 303-724-0975.

**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 FMM 8100.)

**FMM 8400 International FM**

<table>
<thead>
<tr>
<th>4, 8, or 12 wks</th>
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</table>

Course Director, David Gaspar, MD. Course Coordinator, Steven Cruse, 303-724-0975.

**Course Prerequisite:** Approval from Course Director and the Associate Dean for Student Affairs required to register.

**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 are acceptable. Successful International Experiences sessions are required. Arrangements, including registering with “Studio Abroad” must be completed 60 days prior to the elective.

**FMM 8411 Foreign Language Immersion**

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<tr>
<th>4 or 8 wks</th>
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</table>

Course Directors, David Gaspar, MD. Course Coordinator, Steven Cruse, 303-724-0975.

**Prerequisites:** Prior approval of the Course Director and from the Associate Dean of Student Affairs required to register.

**Course Restrictions:** May not register for final 6 weeks of academic year. Not available for honors grading. Must attend an accredited Foreign Language program. 80 hours of language study AND 20 hours of medical foreign language or 24 hours of clinical required. Successful International Experiences sessions are required. Arrangements and registration with “Studio Abroad” must be completed 60 days prior to departure.

**FMM 8600 Research in FM**

<table>
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<tr>
<th>2, 4, 8 or 12 wks</th>
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</table>

Course Director, Caroline LeClair, DO, 720-848-9000. Course Coordinator, Steven Cruse, 303-724-0975.

**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.

**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.

Primary Care research opportunities are available in practice-based and epidemiologic research.

**FMM 8630 FMM Research Away**

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<tr>
<th>2, 4, or 8 wks</th>
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</table>

Course Director, David Gaspar, MD Course Coordinator, Steven Cruse, 303-724-0975.

**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:** May not register for final 6 weeks of academic year. Must be supervised by a family physician or through Department of Family Medicine. Must have research goals and objectives approved by Course Director.

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

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Semester</th>
<th>Max:</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDPT 8000</td>
<td>Foundations Doctoring IV</td>
<td>Summer, Fall, Spring, Sems.</td>
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<tr>
<td>IDPT 8001</td>
<td>Tutoring in Foundations</td>
<td>Fall, Spring Sems.</td>
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<tr>
<td>IDPT 8003</td>
<td>Geriatrics</td>
<td>4 wks</td>
<td>Max: 2</td>
</tr>
<tr>
<td>IDPT 8004</td>
<td>Integrated Clinicians 4</td>
<td>2 wks</td>
<td>Spring Semester</td>
</tr>
<tr>
<td>IDPT 8005</td>
<td>Integrated Clinicians 5</td>
<td>2 wks</td>
<td>Spring Semester</td>
</tr>
<tr>
<td>IDPT 8007</td>
<td>Medicine / Pediatrics</td>
<td>2 or 4 wks</td>
<td>Max: 1</td>
</tr>
<tr>
<td>IDPT 8011</td>
<td>Clinical Nutrition</td>
<td>2 wks</td>
<td>Max: 1</td>
</tr>
<tr>
<td>IDPT 8014</td>
<td>Global Hlth US Project</td>
<td>4 or 8 wks</td>
<td>Max: 20</td>
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<tr>
<td>Course Code</td>
<td>Course Title</td>
<td>Duration</td>
<td>Delivery</td>
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</tr>
<tr>
<td>IDPT 8015</td>
<td><strong>Global Hlth Intl Project</strong></td>
<td>4 or 8 wks</td>
<td>Min: 20</td>
</tr>
<tr>
<td>Course Directors: Jennifer Bellows, MD, 303-436-6884. Course Coordinator, Meleah Himber, 303-724-4161. 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.</td>
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<tr>
<td>IDPT 8016</td>
<td><strong>Physician as Educator</strong></td>
<td>Fall and Spring Sems.</td>
<td>Min: 5/Max: 30</td>
</tr>
<tr>
<td>Course Director, Wendy Madigosky, MD, MSPH. Course Coordinator, Steven Cruse, 303-724-0975. <strong>Prerequisite:</strong> Prior approval by the Course Director required to add this course. <strong>Course Restrictions:</strong> 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.</td>
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<tr>
<td>IDPT 8017</td>
<td><strong>Culturally Effective Med</strong></td>
<td>2 wks</td>
<td>Spring semester</td>
</tr>
<tr>
<td>Course Director, Parnitosh Kaul, MD. Course Coordinator, Regina Richards, MSW, 303-724-4537. <strong>Course Restriction:</strong> Offered section 37 only. Students will gain an understanding of social and cultural influences that affect medical care from and individual and systems perspective. Through didactics, group discussions, and clinical work, students will gain the knowledge that is necessary to provide culturally effective care.</td>
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<tr>
<td>IDPT 8018</td>
<td><strong>Global Health &amp; Disaster</strong></td>
<td>2 wks</td>
<td>Fall semester</td>
</tr>
<tr>
<td>Course Director, Stephen Berman, MD, 303-724-9771. Course Coordinator, Michelle Shiver, BSE, 303-724-9771. <strong>Course Restrictions:</strong> Section 27 only. This course will cover current global health policy issues, community engagement, parasitic, bacterial and viral infections, specialty care, malnutrition and disaster planning and response for children. There will be readings, lectures, labs, problem based learning, small group sessions and technical exercises.</td>
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<tr>
<td>IDPT 8019</td>
<td><strong>Team-based Clinical Care</strong></td>
<td>2 wks</td>
<td>Max: 20</td>
</tr>
<tr>
<td>Course Director, Wendy Madigosky, MD. Course Coordinator, Brenna Deutchman, 303-724-6428. <strong>Course Restrictions:</strong> For graduation requirements, each semester counts one week. Students will join an interprofessional care team to follow patients with complex medical illness. Focus is on understanding the interprofessional care team model of patient centered care, and recognizing factors influencing effective team function. Clinical sites include disease-based clinics, rehabilitation centers, and hospice.</td>
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<tr>
<td>IDPT 8020</td>
<td><strong>Physician as Advisor</strong></td>
<td>Fall and Spring Sems.</td>
<td>Min: 16/Max: 40</td>
</tr>
<tr>
<td>Course Director, Maureen Garritty, PhD. Course Coordinator, Katie Watts, 303-724-6404. <strong>Prerequisites:</strong> Fourth year standing and selection as a “Student Advisor” in the Advisory College Program. <strong>Course Restriction:</strong> 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.</td>
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<tr>
<td>IDPT 8021</td>
<td><strong>Costa Rica Spanish Immersion</strong></td>
<td>Spring sem.</td>
<td>Max: 10</td>
</tr>
<tr>
<td>Course Director, Steven Lowenstein, MD, MPH, 720-848-6777. Course Coordinator, Rory Foster, 303-684-5557. <strong>Prerequisites:</strong> 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. <strong>Course Restrictions:</strong> 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 capstone Spanish Immersion course in Costa Rica includes home stays, intensive language instruction and public health and community outreach activities in underserved communities. Students should be passionate about providing care to the disadvantaged patients in the USA or abroad and committed to improving their Spanish language skill.</td>
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<tr>
<td>IDPT 8022</td>
<td><strong>Clinical Medical Spanish</strong></td>
<td>Fall Sem.</td>
<td>Min: 4/Max: 14</td>
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<tr>
<td>Course Director, Monica Carter, MD. Course Coordinator, Rory Foster, 303-684-5557. <strong>Prerequisites:</strong> 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. <strong>Course Restriction:</strong> 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.</td>
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</table>
IDPT 8023  Refugee Health II  2 or 4 wks  Summer, Fall, Spring Sem.
Max: 4
Course Director, Jamal Moloo, 720-848-6556. Course Coordinator, Kristina Oatis, 303-724-1798.
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  Clin Bedside Ultrasound  4 wks  Max: 4
Course Directors, Andrew French, MD and Molly Thiessen, MD.
Clinician-performed ultrasound is an integral skill in a number of medical specialities. 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 8030  Laboratory Medicine  4 wks  Fall Sem.
Max: 50
Course Director, Mary Berg, MD, Course Coordinator, Gretchen Amend, 303-724-3905.
**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
Course Director, Course Coordinator.
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 8090  Mentored Scholarship IV  Longitudinal wks  Fall and Spring
Course Director, Allan Prochazka, MD. Course Coordinator, Meleah Himber, 303-724-4161.
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 8091  MSA Phase IV Preparation  4 wks  Summer, Fall, Spring
Course Director, Allan Prochazka, MD Course Coordinator, Meleah Himber, 303-724-4161.
**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
Course Directors, Allan Prochazka, MD and Maureen Garrity, PhD. Course Coordinator, Meleah Himber, 303-724-4161.
**Prerequisite:** Special permission and individual arrangements required in advance. Student must have a faculty/project mentor who will sign off on the project. The student must receive prior approval from the Associate Dean for Student Affairs. 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
Course Director, Course Coordinator, Randy Ross, MD. Course Coordinator, Meleah Himber, 303-724-4161.
**Prerequisite:** Required if enrolled in Research Track, taken in place of IDPT 8095. **Instructor consent required.**
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 8601  Research Track, Rsrch I  4 wks  Summer, Fall, Spring
Max: 20
Course Director, Randy Ross, MD. Course Coordinator, Meleah Himber, 303-724-4161.
**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
Max: 50
Course Director, Randy Ross, MD. Course Coordinator, Meleah Himber, 303-724-4161.
**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 8827 Directed Study Clin Sci**  
2, 4, or 8 wks

Course Director, Maureen Garrity, Ph.D.: Course Coordinator, Katie Watts, 303-724-6404.

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

This course provides an opportunity for medical students to further develop and refine their knowledge of the clinical sciences.

Course will include scheduled study time, regularly scheduled practice exams, tutoring in clinic content and test taking strategies.

## MEDICINE ELECTIVES

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<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Max</th>
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<tbody>
<tr>
<td>MEDS 8001</td>
<td><strong>Medicine Sub-I</strong></td>
<td>4 wks</td>
<td>16</td>
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<td><strong>Graduation Requirement:</strong></td>
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<td></td>
<td>This course meets the UC SOM Sub-I requirement.</td>
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<td>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.</td>
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<tr>
<td>Course Director, Adam Trosterman, MD. Course Coordinator, Ashley Daugherty, 303-724-1790.</td>
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<tbody>
<tr>
<td>MEDS 8002</td>
<td><strong>Hospital Medicine Sub-I</strong></td>
<td>4 wks</td>
<td>16</td>
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<td><strong>Graduation Requirement:</strong></td>
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<td></td>
<td>This course meets the UC SOM Sub-I requirement.</td>
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<td>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.</td>
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<tr>
<td>Course Director, Christopher King, MD. Course Coordinator, Emile Wagner.</td>
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<tbody>
<tr>
<td>MEDS 8003</td>
<td><strong>Transfusion Medicine</strong></td>
<td>4 wks</td>
<td>1</td>
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<td><strong>Course Restrictions:</strong></td>
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<td>Notification of, and approval by course director before students start the course.</td>
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<td>This course is a comprehensive study of transfusion medicine, pre-transfusion testing, component preparation and storage, donor selection and testing, inventory control and blood administration. Independent study and research encouraged.</td>
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<tr>
<td>Course Director. Course Coordinator, Ashley Daugherty, 303-724-2089.</td>
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<tbody>
<tr>
<td>MEDS 8004</td>
<td><strong>Cardiology</strong></td>
<td>2 or 4 wks</td>
<td>6</td>
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<td><strong>Prerequisite:</strong></td>
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<td></td>
<td>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.</td>
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<tr>
<td>Course Director, Peter M. Buttrick, MD, 303-724-2089. Course Coordinator, Ashley Hurley, 303-724-2089.</td>
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<th>Course Code</th>
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<tbody>
<tr>
<td>MEDS 8005</td>
<td><strong>Cardiac Diagnostic Skill</strong></td>
<td>2 wks</td>
<td>6</td>
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<td><strong>Course Restrictions:</strong></td>
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<td>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.</td>
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<tr>
<td>Course Directors, David Fitter, MD and Michael Fisher, MD. Course Coordinator, Sarah Flores, 303-866-8885.</td>
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<tbody>
<tr>
<td>MEDS 8006</td>
<td><strong>Allergy/Clin Immunology</strong></td>
<td>2 or 4 wks</td>
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<td><strong>Prerequisite:</strong></td>
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<tr>
<td></td>
<td>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.</td>
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<tr>
<td>Course Director, Stephen Dreskin, MD, 303-724-7198. Course Coordinator, Jeanne Kittle, 303-724-7198.</td>
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<th>Credits</th>
<th>Max</th>
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<tbody>
<tr>
<td>MEDS 8007</td>
<td><strong>Clinical Renal</strong></td>
<td>2 or 4 wks</td>
<td>3</td>
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<td><strong>Course Restrictions:</strong></td>
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<td></td>
<td>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.</td>
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<tr>
<td>Course Director, James Cooper, MD. Course Coordinator, Kendra Burghardt, 303-724-4851.</td>
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<tbody>
<tr>
<td>MEDS 8008</td>
<td><strong>Clin Gastro-Colo Spgs</strong></td>
<td>2 or 4 wks</td>
<td>2</td>
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<td><strong>Restrictions:</strong></td>
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<td>Course Director approval required to add course.</td>
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<tr>
<td>Course Director, Austin, Garza, MD, 719-635-7321, -22, <a href="mailto:ag624@mac.com">ag624@mac.com</a>. Course Coordinator, For housing: <a href="http://ahc.ucdenver.edu/finalid/">http://ahc.ucdenver.edu/finalid/</a></td>
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This is an ambulatory and inpatient gastroenterology exposure within the context of a private practice, featuring exposure to GI diseases, endoscopic and medical management of the gastrointestinal tract and hepatology including Hepatitis C.

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<th>Course Code</th>
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<th>Credits</th>
<th>Max</th>
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<tbody>
<tr>
<td>MEDS 8009</td>
<td><strong>Clin Infectious Diseases</strong></td>
<td>4 wks</td>
<td>3</td>
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<td><strong>Course Restrictions:</strong></td>
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<td>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.</td>
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<td>Course Director, J. David Beckham, MD, 303-724-4927 Course Coordinators, Ashley Cannon, 303-724-4932. 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.</td>
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MEDS 8010  Clin Gastroenterology  
2 or 4 wks  
Max: 2
Course Director, Joel Levine, MD. Course Coordinator, Shanna Taylor, 303-724-2972.  
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  
Max: 2
Course Director, Joe Crossno, MD, 303-724-3695. Course Coordinator, Jessica Cunningham, 303-724-6043.  
UCH, DHMC, and DVAMC. This elective offers broad experience in pulmonary and critical care medicine. Students participate in consultations, attend conferences and clinics. A wide variety of pulmonary and critical care cases are seen.

MEDS 8012 Clinical Rheumatology  
4 wks  
Max: 1
Course Director, Robert Janson, MD. Course Coordinator, Wanda Simpson, 303-724-7605.  
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  
Max: 2
Course Director, Cecilia Wang, MD, 303-399-8020 x2691. Course Coordinator, Holly Smith, 303-724-3927. 
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  
Max: 1
Course Director, Paul Seligman, MD 303-724-4086. Course Coordinator, Theresa Martinez, 303-724-4088.  
Students are exposed to a wide range of patients seen in consultation for hematologic and oncologic problems. Students may also elect to attend the numerous subspecialty outpatient clinics for patients with various malignancies.

MEDS 8017 Hospice/Palliative Care  
2 or 4 wks  
Max: 1
Course Director: Jeanie Youngwerth, MD, 720-848-4289.  
Prerequisite: 1) Course Director approval required to add course. 2) Contact Dr. Youngwerth 1 week prior to starting via email 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 8022 Disability Medicine  
2 or 4 wks  
Max: 2
Course Director, Laura Pickler, MD, MPH, 720-777-7450. Course Coordinator, Dina Johnson, 303-724-7673  
Prerequisites: Course Director approval required to add this course. 
Course Restrictions: Not offered in December. Final scheduling requires communication with Dr. Pickler either by email of office phone. This course addresses unique considerations of providing health care to individuals with disabilities throughout their lifespan. Coursework is tailored to the student’s interests, providing experience with genetic conditions and inborn errors of metabolism in addition to patients with developmental disabilities.

MEDS 8023 Medicine Consult  
2 or 4 wks  
Max: 2
Course Director, Mary Anderson, MD. Mary.anderson@ucdenver.edu.  
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  
Max: 2
Course Director, Elaine Lam, MD, 720-848-0170.  
Students will learn the basic aspects of medical oncology by evaluation of patients in the general oncology, breast, lung cancer, prostate, melanoma, leukemia and lymphoma clinics. They will attend the weekly multi-disciplinary tumor conferences.

MEDS 8026 Medical Oncology Sub I  
4 wks  
Max: 1
Course Director, Elaine Lam, MD, 720-848-0170.  
This elective is a sub-internship on the oncology unit of University Hospital. The student will function as an intern, admitting and evaluating patients. Teaching rounds will be on a daily basis with residents, oncology fellows and an attending physician.

MEDS 8029 Applied Clin Pharmacolog  
4 wks  
Spring Sem.
Min: 20/Max:120
Course Directors, Alberto Costa, MD, PhD, 303-724-6007 and Wenbo Zhou, PhD, 303-724-6000.  
Course Restrictions: Course offered section 37 only.  
This course provides fourth year medical students with a practical approach to the pharmacologic treatment of common clinical conditions. There will be three 1-hour lectures each day, ten additional hours of independent study per week, and a final examination.
MEDS 8032  Corrections Health Care  2 wks  Max: 1
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  Max: 2
Course Director, Lisa Cyran, MD. Course Coordinator, Sarah Flores, 303-866-8885.
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 functions as an intern-equivalent and admits patients during overnight call every third day. Student will attend daily ICU interdisciplinary rounds and enhance skills in reporting, interpreting clinical information, communication, and patient management plans. Student will present an EMB-research clinical question.

MEDS 8036 Crit Care DHMC Sub-I  4 wks  Max: 3
Course Director, Course Coordinator,
Prerequisite: Sub-I in medicine or surgery. Course director approval required to add this course.
This course can meet Sub-I qualifications. The sub-internship in medical critical care offers Phase 4 medical students an opportunity to develop expertise in the diagnosis and management of critically ill patients. Students will also receive training in the performance of common ICU procedures.

MEDS 8037 Medical ICU - UCH  4 wks  Max: 1
Course Director, Ellen Burnham, MD. Course Coordinator, Michelle Kerklo, BS, 303-724-6079.
Prerequisites: Sub I in Medicine or Surgery.
This rotation 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 Sem., Max: 4
Course Director, Lisa Corbin, MD 720-848-1225.
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 8040 Film and Mental Illness  2 wks  Spring Sem., Min:6/ Max: 30
Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, Heidi Mallon, Med, 303-724-6997.
Restrictions: Offered section 43 only.
There is a well-documented relationship between movies and psychiatry. Just how accurate are film depictions of psychiatric conditions and how have cinematic representations shaped our personal responses, cultural beliefs, and social policies regarding the mentally ill?

MEDS 8100 MEDS Elective Away  2 or 4 wks
Course Director, Adam Trosterman, MD. Course Coordinator, Ashley Daugherty, 303-724-1790.
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 or another state. Course is Pass/Fail only.

MEDS 8600 Research in Medicine  2, 4, 8, or 12 wks
Course Directors: Brittia Jacobsen, PhD and Adam Trosterman, MD. Course Coordinator, Ashley Daugherty, 303-724-1790.
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 8601 Intro Biomed Research  2 or 4 wks
Course Director, John Repine, MD Course Coordinator, Ashley Daugherty, 303-724-1790.
Prerequisite: Course Director approval required to add the course. The student must speak with Dr. Repine beforehand to understand the nature of the course.
Course Restrictions: The paper cannot be used for another course and may or may not be suitable for publication. This course cannot be taken simultaneously with another for credit course at the medical school.
The goal of this course is to familiarize medical students with Biomedical Research and literature searches. Students will select and prepare a short paper on a specific approved topic and then review the work with a mentor and/or Course Director.
MEDS 8630   MEDS Research Away       2, 4, or 8 wks
Course Directors, Adam Trosterman, MD and Britta Jacobsen, PhD. Course Coordinator, Ashley Daugherty, 303-724-1790. 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 Elective       2 or 4 wks  Max: 3
Course Director, Chantal O’Brien, MD. Course Coordinator, April Flores, 303-724-5899. 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
Course Director, Chantal M. O’Brien, MD. Course Coordinator, Holly Ables, 303-724-5899. 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 or another state.

NEUR 8600   Research in Neurology     2, 4, 8, or 12 wks
Course Director, Chantal O’Brien, MD. Course Coordinator, Holly Ables, 303-724-5899. 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         2.4, or 6 wks  Max: 8
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Martinez, 303-724-2302.
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
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Martinez, 303-724-2302. 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 or another state.

NSUR 8600   Research in Neurosurgery    2, 4, 8, or 12 wks
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Martinez, 303-724-2302. 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.

NSUR 8630   NSUR Research Away         2, 4, or 8 wks
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Martinez, 303-724-2302. 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 research elective will be held at a site in Colorado or another state.
OBSTETRICS AND GYNECOLOGY ELECTIVES

OGBY 8000  General Obstetrics Sub I  4 wks  Max: 1
Course Director, Kathy Witzeman, MD, 303-602-9725. Course Coordinator, Deborah Jackson, 303-724-2031.
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.

OGBY 8001  General Gynecology Sub I  4 wks  Max: 1
Course Director, Kathy Witzeman, MD, 303-602-9725. Course Coordinator, Deborah Jackson, 303-724-2031.
Graduation Requirement: This course meets the UC SOM Sub-I requirement.
Offered at DHMC only. Includes experience in inpatient/outpatient gynecology, family planning, operative gynecology and postoperative care. Student works under supervision of residents and attending staff.

OGBY 8002  Directed Study in OBGYN  4 or 8 wks
Course Director, Kristina Tocce, MD, 303-724-2044. Course Coordinator, Deborah Jackson, 303-724-2031.
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.

OGBY 8004  High Risk Maternal/Fetal Sub-I  4 wks  Max: 1
Course Director, Kristina Tocce, MD. Course Coordinator, Deborah Jackson, 303-724-2031.
Graduation Requirement: This course meets the UC SOM Sub-I requirement.
Intensive exposure to problems of high-risk obstetrics. Student will work under supervision of the Maternal-Fetal Medicine Staff. Student will attend high-risk clinics, have primary responsibility for patient care in antepartum unit under supervision of chief resident.

OGBY 8005  Gynecologic Oncology Sub-I  4 wks  Max: 1
Course Director, Julia Embry. Course Coordinator, Deborah Jackson, 303-724-2031.
Graduation Requirement: This course meets the UC SOM Sub-I requirement.
Student will attend GYN oncology clinics and scrub on all GYN oncology surgery, functioning as acting intern. All pathology will be reviewed with GYN oncologist. Literature review on selected subject required. Clinical research opportunities available.

OGBY 8009  GYN Subspecialties  4 wks  Max: 1
Course Director, Kristina Tocce, MD 303-724-2044. Course Coordinator, Deborah Jackson, 303-724-2031.
Course Restrictions: This elective is designed to expose the student to variety of outpatient subspecialty gynecologic clinics, including 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.

OGBY 8010  Reproductive/Infer  2 or 4 wks  Max: 1
Course Director, Ruben Alvero, MD Course Coordinator, Deborah Jackson, 303-724-2031.
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.

OGBY 8011  Family Planning  4 wks  Max: 1
Course Director, Kristina Tocce, MD. Course Coordinator, Deborah Jackson, 303-724-2031.
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 in ongoing research activities of the division.

OGBY 8012  UH Gynecology Sub-I  4 wks  Max: 1
Course Director, Kristina Tocce, MD. Course Coordinator, Deborah Jackson, 303-724-2031.
Graduation Requirement: This course meets the UC SOM Sub-I requirement.
Prerequisite: Passing grade in third year Women and Newborns rotation (IDPT 7030).
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.

OGBY 8100  OBGY Elective Away  2 or 4 wks
Course Director, Kristina Tocce, MD. Course Coordinator, Deborah Jackson, 303-724-2031.
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 or another state.
OPHG 8600  Research in OBGYN  2, 4, 8, or 12 wks  
Course Director, Kristine Tocce, MD.  Course Coordinator, Deborah Jackson, 303-724-2031.  
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.

OPHG 8630  OBGY Research Away  2, 4, or 8 wks  
Course Director, Kristine Tocce, MD.  Course Coordinator, Deborah Jackson, 303-724-2031.  
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 or another state.

OPHTHALMOLOGY ELECTIVES

OPHT 8000  Ophthalmology  2 or 4 wks  Max: 1  
Course Director, Eric Hink, MD.  Course Coordinator, Bethany Jackson, 720-848-2508.  
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  
Course Director, Eric Hink, MD.  Course Coordinator, Bethany Jackson, 720-848-2508.  
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.

OPHT 8600  Research Ophthalmology  2, 4, 8, or 12 wks  
Course Director, Eric Hink, MD.  Course Coordinator, Bethany Jackson, 720-848-2508.  
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.  
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  
Course Director, Eric Hink, MD.  Course Coordinator, Bethany Jackson, 720-848-2508.  
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.

ORTHOPEDIC ELECTIVES

ORTH 8000  Orthopaedic Surgery Sub-I  4 wks  All Sems.  Max: 8  
Course Director, Frank Scott, MD.  Course Coordinator, Kelly Wright, 303-724-7354.  
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 Orthopaedic 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  Orthopaedic Primary Care  2 or 4 wks  Spring Sem.  Max: 2  
Course Director, Frank Scott, MD.  Course Coordinator, Kelly Wright, 303-724-7354.  
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  2 or 4 wks  Max: 1  
Course Director, Frank Scott, MD.  Course Coordinator, Kelly Wright, 303-724-7354.  
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 8100  ORTH Elective Away  
Course Director, Frank Scott, MD. Course Coordinator, Kelly Wright, 303-724-7354.
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 or another state.

ORTH 8600  Research in Orthopedics
4, 8, or 12 wks  Max:4
Course Director, Frank Scott, MD. Course Coordinator, Kelly Wright, 303-724-7354.
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. 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  Max:10
Course Director, Frank Scott, MD, 720-848-0485. Course Coordinator, Kelly Wright, 303-724-7354.
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 or another state.

OTOLARYNGOLOGY ELECTIVES

OTOL 8000  Clinical Otolaryngology
2 or 4 wks  Max: 3
Course Directors, Ted Leem and Adam Terella, MD. Course Coordinator, Alicia Gore, 303-724-1957
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 8100  OTOL Elective Away
2 or 4 wks
Course Directors, Ted Leem and Adam Terella, MD. Course Coordinator, Mackenzie Stern, 303-724-8887
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 or another state.

OTOL 8600  Research Otolaryngology
4, 8 or 12 wks
Course Director, Katie Rennie, PhD. Course Coordinator, Mackenzie Stern, 303-724-8887.
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.
Objectives: 1) work in supervised environment to gain appreciation for research design, criticism and statistical analysis; 2) complete research project with potential to publish in peer-reviewed journal.

OTOL 8630  OTOL Research Away
2, 4, or 8 wks
Course Director, Katie Rennie, PhD. Course Coordinator, Mackenzie Stern, 303-724-8887.
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 or another state.

PATHOLOGY ELECTIVES

PATH 8000  Pathology
2 or 4 wks  Max: 2
Course Directors, Robert Low, MD and Phillip Boyer, MD, PhD. Course Coordinator, Gretchen Amend, 303-724-3905.
Optimal rotation schedule is based on student’s interests. Student usually rotates on Anatomic Pathology (AT) services (surgical cytology, 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, transf).

PATH 8100  PATH Elective Away
2 or 4 wks
Course Director, Robert Low, MD. Course Coordinator, Gretchen Amend, 303-724-3905.
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
Course Director, Robert Low, MD. Course Coordinator, Gretchen Amend, 303-724-3905.
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.
Graduation Requirement: This course meets the UC SOM Sub-I requirement.
This course provides experience in the pathophysiology, diagnosis, and therapy of childhood infections. Students evaluate inpatient and outpatient cases at daily teaching rounds. Experience in the diagnostic Microbiology laboratory is provided. There is a weekly HIV/infectious diseases clinic.

PATH 8630  PATH Research Away  2, 4, or 8 wks
Course Director, Robert Low, MD. Course Coordinator, Gretchen Amend, 303-724-3905.
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 Subinternship  4 wks  Max: 4
Course Director, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
This course provides experience in the pathophysiology, diagnosis, and therapy of childhood infections. Students evaluate inpatient and outpatient cases at daily teaching rounds. Experience in the diagnostic Microbiology laboratory is provided. There is a weekly HIV/infectious diseases clinic.

Peds 8004  Pediatric Cardiology  4 wks  Max: 1
Course Directors, Michael Schaffer, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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 8006  Immunology and Allergy  4 wks  Max: 2
Course Directors, Joseph Spahn, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  Max: 1
Course Directors, Andrew Sirotnak, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  Max: 1
Course Directors, Margarita Saenz, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  Pediatrics Infectious Disease  4 wks  Max: 1
Course Directors, Mary Glode, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
This course provides experience in the pathophysiology, diagnosis, and therapy of childhood infections. Students evaluate inpatients and present cases at daily teaching rounds. Experience in the diagnostic Microbiology laboratory is provided. There is a weekly HIV/infectious diseases clinic.

Peds 8011  Pediatrics Pulmonary Disease  4 wks  Max: 1
Course Directors, Monica Federico, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  Max: 1
Course Directors, Julie Parsons, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  4 wks  Max: 1
Course Directors, Christian Chan, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
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  Ped Neionatology Sub I**  
4 wks  
Max: 3  
Course Directors, Elizabeth Thilo, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
**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  
Max: 1  
Course Directors, David Fox, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
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.  
Max: 1  
Course Directors, Paritosh Kaul, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
**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 8022  Peds Gastroenterology**  
4 wks  
Max: 1  
Course Directors, Edward Hoffenberg, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
**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 8024  Child Development/Behav.**  
2 or 4 wks  
Max: 1  
Course Directors, Ann Reynolds, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
Medical students will participate in the medical assessment and treatment of children with developmental and behavioral problems. They will attend lectures, participate in the seminars, and observe multidisciplinary assessments of children with developmental disorders. Primarily observational.

**PEDS 8025  Peds Emergency Medicine**  
4 wks  
Max: 1  
Course Directors, Kelley Roswell, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
**Restrictions:** Experience at Children’s Hospital Colorado. See EMED 8017 for experience at DHMC.  
Students gain experience in assessment and management of common conditions in Children’s Hospital Colorado emergency department including minor emergencies, acutely ill children, 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  
Max: 1  
Course Directors, Gary Lum, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
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 Intensive Care**  
4 wks.  
Max: 1  
Course Directors, Emily Dobyns, MD, 303-724-2387 and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.  
**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  
Max: 2  
Course Directors, Nancy Krebs, MD, MS and Maya Bunik, MD, 720-777-4806. Course Coordinator, Laura Primak, RD, CNSC, 303-506-5228.  
**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  
Max: 2  
Course Director, Sean O'Leary, MD, Course Coordinator, Michael Baca, 720-777-4804.  
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.
**PHYSICAL MEDICINE AND REHABILITATION ELECTIVES**

**PHMD 8000  Physical Med & Rehab**

- **Course Director:** Scott Laker, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.
  - Written evaluation must be sent by individual instructor, with course director responsible for final grade.

**PHMD 8100  PHMD Elective Away**

- **Course Director:** Scott Laker, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

**PHMD 8600  Research Physical Med**

- **Course Director:** Matthew Godleski, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

**PHMD 8630  PHMD Research Away**

- **Course Director:** Matthew Godleski, MD, 720-848-7924. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

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**Peds 8031  Pediatric Hematology/Oncology**

- **Course Directors:** Timothy Garrington, MD, Brian Greffe, MD, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804, Margaret Lister.
- **Prerequisite:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs. There may be additional requirements for these.

**Peds 8032  Pediatric Radiology**

- **Course Directors:** Kari Hayes MD, Brian Greffe, MD Course Coordinator, Michael Baca, 720-777-4804.
- **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.

**Peds 8100  Peds Elective Away**

- **Course Director:** Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
- **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: Sections 49-50 not available.

**Peds 8600  Research in Pediatrics**

- **Course Director:** Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
- **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.
  - Written evaluation must be sent by individual instructor, with course director responsible for final grade.

**Peds 8630  Peds Research Away**

- **Course Director:** Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
- **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.

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**PHYSICAL MEDICINE AND REHABILITATION ELECTIVES**

**PHMD 8000  Physical Med & Rehab**

- **Course Director:** Scott Laker, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

**PHMD 8100  PHMD Elective Away**

- **Course Director:** Scott Laker, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

**PHMD 8600  Research Physical Med**

- **Course Director:** Matthew Godleski, MD. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.

**PHMD 8630  PHMD Research Away**

- **Course Director:** Matthew Godleski, MD, 720-848-7924. Course Coordinator, Mallory Pridy, BS, 303-724-7408.
- **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.
PREVENTIVE MEDICINE ELECTIVES

PRMD 8003  Specialty Preventive Med
Course Director, Tim Byers, MD, MPH, 303-724-1283.
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
Course Director, Jacqueline Glover, Ph.D., 303-724-3992.
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
Course Director, Tim Byers, MD, MPH, 303-724-1283.
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
Course Director, Tim Byers, MD, MPH, 303-724-1283.
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
Course Director, Tim Byers, MD, M.P.H., 303-724-1283.
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.

PSYCHIATRY ELECTIVES

PSYM 8000  Advanced Inpatient Psych
Course Director, Robert Davies, MD, 303-724-2229. Course Coordinator, Sharon Campbell, 303-724-7400.
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  “Big Six” Substance Prob
Course Director, Paula Riggs, MD. Course Coordinator, Elisa Upwood, MS ext, 303-724-3183.
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
Course Director, Robert Davies, MD. Course Coordinator, Sharon Campbell, 303-724-7400.
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.
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<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
<th>Description</th>
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<tbody>
<tr>
<td>PSYM 8004</td>
<td>Sub-I/Child &amp; Adolesnt PSYM</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8005</td>
<td>Clinical PSYM Geriatric</td>
<td>4 wks</td>
<td>Evaluate and help manage geriatric patients with psychiatric illness. Students will serve as part of the inpatient gero-psychiatric team and will be responsible for 2-3 inpatients under the supervision of attendings, residents and fellows.</td>
</tr>
<tr>
<td>PSYM 8006</td>
<td>Clinical PSYM C/L</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8007</td>
<td>Clinical PSYM Emer Srvs</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8008</td>
<td>Clinical PSYM Forensic</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8009</td>
<td>Clinical PSYM Addiction</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8010</td>
<td>Clinical PSYM Eating Disorders</td>
<td>4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8100</td>
<td>PSYM Elective Away</td>
<td>2 or 4 wks</td>
<td>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.</td>
</tr>
<tr>
<td>PSYM 8600</td>
<td>Research in Psychiatry</td>
<td>2, 4, 8, or 12 wks</td>
<td>Research electives in various areas of Psychiatry. Contact Randy Ross, MD or Sharon Hunter, PhD for menu of research options.</td>
</tr>
<tr>
<td>PSYM 8630</td>
<td>PSYM Research Away</td>
<td>2, 4, or 8 wks</td>
<td>All non-Psychiatry Scholars Program students will be graded as Pass/Fail. This research elective will be held at a site in Colorado, another state, or internationally. International sites must be Pre-approved by Student Affairs, and there may be additional requirements for these.</td>
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</table>
## RADIOLOGY ELECTIVES

### RADI 8000 Diagnostic Radiology
- **Course Director:** James Davidson, Jr. MD. Course Coordinator, Katelynn Weber, 303-724-1981.
- **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 8002 Nuclear Medicine
- **Course Director:** Phillip Koo, MD, 303-848-1213. Course Coordinator, Katelynn Weber, 303-724-1981.
- **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
- **Course Restrictions:** 2 week course offered Jan–April only. 2 students for 4-week course (May-Dec): 1 student for 2-week course and 1 student for 4-week course (Jan-April). Course not offered during sections 45-48 for the 2012-2013 year.
  
  Interventional Radiology is the treatment of disease conditions using minimally invasive means. These procedures are performed with X-rays, US, and CT guidance. The student will round with the team, participate in procedures, and attend daily conferences. Standard student evaluation used.

### RADI 8100 RADI Elective Away
  
  **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
- **Course Director:** Kimi Kondo, DO, 720-848-6568. Course Coordinator, Katelynn Weber, 303-724-1981.
  
  **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.
  
  The student is responsible for obtaining written evaluation. 2 week rotation not Honors eligible.

### RADI 8630 RADI Research Away
- **Course Director:** Kimi Kondo, DO, 720-848-6568. Course Coordinator, Katelynn Weber, 303-724-1981.
  
  **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.

## RADIATION ONCOLOGY ELECTIVES

### RAON 8005 Radiation Oncology
- **Course Director:** Christine Fisher, 720-848-0141. Course Coordinator, Sandra Korn, 720-848-0156.
  
  The student will learn the basic tools and techniques of radiation oncology, evaluate patients before and after treatment, learn specialized exam techniques, participate in consultations and multi-modality cancer treatment planning.

### RAON 8100 RAON Elective Away
- **Course Director:** Christine Fisher, 720-848-0141. Course Coordinator, Sandra Korn, 720-848-0156.
  
  **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.
SURGERY ELECTIVES

SURG 8000 Gen Surg Sub I Univ Hosp 4 wks Max: 4
Course Director, Thomas A. Whitehill, MD. Course Coordinator, Mary Kay Anderson, 303-724-2681.

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

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

SURG 8001 Gen Surg Sub I DHMC 4 wks Max: 3
Course Director, Carlton Barnett, MD Course Coordinator, Ron Fresquez, 303-436-6575.

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

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

SURG 8002 Gen Surg Sub I St Joseph 4 wks Max: 2
Course Director, G. Edward Kimm, MD. Course Coordinator, Laurie Cooper, 303-837-7295.

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

Held at 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 Surg Sub 4 wks Max: 2
Course Director, David Fullerton, MD Course Coordinator, Karen Muth, 303-724-2798.

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 Max: 1
Course Director, Gordon K. Lindberg, M.D., PhD. Course Coordinator, Robin Miller, 303-724-2727.

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

SURG 8011 Hand Surgery 4 wks Max: 1
Course Director, Mickey Gordon, MD. Course Coordinator, Mandy Whitton, 303-724-2792.

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 Subinternship 4 wks Max: 4
Course Director, Ty Higuchi MD. Course Coordinator, Kathy Politis, 303-724-2712.

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

All students are required to rotate at hospitals, participate and perform physical exams, follow-up, clinic and surgeries. All Urology Conferences are mandatory. The Chief Resident, under supervision of the Attending, guides educational experiences.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration(s)</th>
<th>Max:</th>
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<tbody>
<tr>
<td>SURG 8015</td>
<td>Pediatric Surgery</td>
<td>2 or 4 wks</td>
<td>1</td>
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<tr>
<td></td>
<td>Course Director, Frederick Karrer, MD. Course Coordinator, Sandra Floyd, 720-777-5506 at TCH.&lt;br&gt;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.</td>
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<tr>
<td>SURG 8019</td>
<td>Plastic Surgery</td>
<td>4 wks</td>
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<td>Course Director, Mickey Gordon, MD. Course Coordinator, Mandy Whitton, 303-724-2792.&lt;br&gt;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.</td>
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<tr>
<td>SURG 8020</td>
<td>Vascular Surg Research</td>
<td>4, 8, or 12 wks</td>
<td>2</td>
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<td>Course Director, Mark Nehler, MD. Course Coordinator, Mary Kay Anderson, 303-724-2681.&lt;br&gt;Students work in Vascular Diagnostic Laboratory to learn problems of vascular surgical research, tests used, and test interpretations. Responsible for at least one research project, either an original investigation or as part of an ongoing investigation.</td>
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<tr>
<td>SURG 8021</td>
<td>Surgical Critical Care</td>
<td>4 wks</td>
<td>2</td>
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<td>Course Director, Carlton Barnett, MD., 303-436-5402. Course Coordinator, Ron Fresquez, 303-436-6575.&lt;br&gt;Graduation Requirement: This course meets the UC SOM Sub-I requirement.&lt;br&gt;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.</td>
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<tr>
<td>SURG 8030</td>
<td>Clinical Transplantation</td>
<td>2 or 4 wks</td>
<td>3</td>
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<td></td>
<td>Course Director, Michael Wachs, MD. Course Coordinator, Bretlyn Davis, 303-848-0878.&lt;br&gt;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.</td>
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<tr>
<td>SURG 8100</td>
<td>SURG Elective Away</td>
<td>2 or 4 wks</td>
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<td></td>
<td>Course Director, Thomas A. Whitehill, MD. Course Coordinator, Mary Kay Anderson, 303-724-2681.&lt;br&gt;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.&lt;br&gt;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.</td>
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<tr>
<td>SURG 8600</td>
<td>Research in Surgery</td>
<td>2, 4, 8, or 12 wks</td>
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<td></td>
<td>Course Director, Thomas A. Whitehill, MD. Course Coordinator, Mary Kay Anderson, 303-724-2681.&lt;br&gt;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.&lt;br.Course Restrictions: Not available Sections 49-50.&lt;br&gt;This surgery elective will be held at a site in Colorado or another state. Students must obtain departmental approval one month prior to start.</td>
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<tr>
<td>SURG 8630</td>
<td>SURG Research Away</td>
<td>2, 4, or 8 wks</td>
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<td></td>
<td>Course Director, Thomas A. Whitehill, MD. Course Coordinator, Mary Kay Anderson, 303-724-2681.&lt;br&gt;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.&lt;br&gt;Course Restrictions: Sections 49-50 not available.&lt;br&gt;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.</td>
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