### IDPT 5000 Foundations Doctoring I
Course Director, Wendy Madigosky, 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
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. Case discussions are integrated with clinically related anatomy and physical exam content.

### IDPT 5002 Molecules to Medicine
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
Course Director, Fred Severyn, MD, 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.
The 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
Course Director, Allan Prochazka, MD Course Coordinator, Stephanie Vetter, 303-724-7731.
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.

### PHASE I – REQUIRED CURRICULUM SPRING SEMESTER 2012

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Credits</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDPT 5000</td>
<td>Foundations Doctoring I</td>
<td>2.0 cr. sem.</td>
</tr>
<tr>
<td>IDPT 5003</td>
<td>Blood and Lymph</td>
<td>4.0 cr.</td>
</tr>
<tr>
<td>IDPT 5004</td>
<td>Disease and Defense</td>
<td>5.0 cr.</td>
</tr>
<tr>
<td>IDPT 5005</td>
<td>Cardiovascular/Pul/Renal</td>
<td>9.5 cr.</td>
</tr>
<tr>
<td>IDPT 5090</td>
<td>Mentored Scholarship</td>
<td>1.0 cr.</td>
</tr>
</tbody>
</table>

### IDPT 5000 Foundations Doctoring I
Course is a continuation of the fall semester course.

### IDPT 5003 Blood and Lymph
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
Course Co-Directors, Ronald E. Gill, PhD, 303-724-4230 and Marsha Anderson, MD, 720-777-6877.
The course includes principles of pharmacology, microbiology, and pathology. Topics include the response to infectious, inflammatory, and neoplastic processes. These concepts are integrated during discussion of the “Skin” as an “organ system”, including discussions of skin structure, diseases, pathophysiology, and treatment.

### IDPT 5005 Cardiovascular/Pul/Renal
Course Co-Directors, Rock Levinson, PhD, 303-724-1544 and Lawrence Horwitz, MD 303-724-2089.
The 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
A continuation of course begun in fall semester.

### PRMD 5000 Ethics Hlth Profession I
Course Co-Directors, Jackie Glover, PhD, 303-724-3992 and Tess Jones, PhD, 303-0724-3995.
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.
PHASE II – REQUIRED CURRICULUM FALL SEMESTER 2011

IDPT 6000  Foundations Doctoring II  2.0 cr./sem.
Course Director, Wendy Madigosky, 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, Robin Michaels, PhD, 303-724-3402, 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.

PRI 6090  Mentored Scholarship  1.0 cr.
Course Director, Allan Prochazka Course Coordinator, Stephanie Vetter, 303-724-7731.
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.

PHASE II – REQUIRED CURRICULUM FOR SPRING SEMESTER 2012

IDPT 6000  Foundations Doctoring II  2.0 cr./sem.
Course Director, Wendy Madigosky, 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  5.0 cr.
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  4.5 cr.
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  1.0 cr.
Course Director, Allan Prochazka Course Coordinator, Stephanie Vetter, 303-724-7731.
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.
ELECTIVES FOR PHASE 1 AND 2 STUDENTS
2011-2012

**DERMATOLOGY ELECTIVE**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Terms</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>DERM 6660</td>
<td>Career Elective in DERM</td>
<td>All terms</td>
<td>1.0 crs</td>
</tr>
</tbody>
</table>

Course Director, Cory Dunnick, MD  Course Coordinator, Kemp Weston, 720-848-0510.
This course provides an introduction to dermatology. Students will shadow a dermatologist for a total 4 half-day clinics (flexible excluding Monday/Friday afternoons) to get an idea of the scope of practice of dermatology which encompasses dermatologic surgery, adult and pediatric dermatology.

**EMERGENCY MEDICINE ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Terms</th>
<th>Credit Hours</th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMED 6624</td>
<td>Intro Wilderness Med</td>
<td>Fall sem.</td>
<td>1.0 cr.</td>
<td>45</td>
<td>10</td>
</tr>
</tbody>
</table>

Course Director, Kelly Bookman, MD and Barbara Blok 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6767.  
Course Restrictions: Must attend field day with Rocky Mountain Rescue in Boulder.  
Course consists of a lecture series and one four hour weekend outdoor exercise with an emphasis on basic science and pathophysiology of wilderness medicine problems. Students participate in skill stations and perform various field medicine and evacuation procedures.

<table>
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<th>Credit Hours</th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMED 6626</td>
<td>Pre-Hospital Medicine</td>
<td>Fall, Spring sems.</td>
<td>1.0 cr.</td>
<td>20</td>
<td>10</td>
</tr>
</tbody>
</table>

Course Director, Christopher B. Colwell, MD Course Coordinator, Linda Anderson, 303-436-7129.  
Course Restrictions: Enrollment restricted to EMIG (Emergency Medicine Interest Group) only.  
Students required to participate in 1 ten hour ride along shift with Denver Paramedic Division 911 ambulances, attend required Introductory Lecture on pre-hospital medicine and submit 1 evaluation from ambulance ride.

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Credit Hours</th>
<th>Max</th>
<th>Min</th>
</tr>
</thead>
<tbody>
<tr>
<td>EMED 6627</td>
<td>Intro Emer Med &amp; Trauma</td>
<td>Spring sem.</td>
<td>1.0 cr.</td>
<td>999</td>
<td>10</td>
</tr>
</tbody>
</table>

Course Directors Jeffrey Druck, MD and Maria Moreira, MD Course Coordinators, Cathy Maciel,720-848-6767 and Linda Anderson, 303-436-7129.  
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.

<table>
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<tbody>
<tr>
<td>EMED 6628</td>
<td>Flight Medicine</td>
<td>Fall, Spring sems.</td>
<td>1.0 cr.</td>
</tr>
</tbody>
</table>

Course Director, Christopher B. Colwell, MD, 303-436-6966.  
Prerequisite: EMED 6626 Pre-Hospital Medicine.  
Students will learn about the unique environment of critical care transport medicine and will experience a 12-hour shift with Flight for Life aboard their helicopters, airplanes, and ambulances while providing care across the region.

<table>
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</thead>
<tbody>
<tr>
<td>EMED 6629</td>
<td>Emergency Med Skills</td>
<td>Fall, Spring sems.</td>
<td>1.0 cr.</td>
</tr>
</tbody>
</table>

Course Director, David Richards, MD, FACEP. Course Coordinator, Linda Anderson, 303-436-7129.  
Restriction: Phase I students only.  
This course provides 48 hours of clinical work with an EMED attending physician with the purpose of exposing the student to EMED environment and teaching procedural skills necessary for the basic clinical care in preparation for an international experience.

**FAMILY MEDICINE ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Terms</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMED 6410</td>
<td>Foreign Lang Immersion</td>
<td>Summer sem.</td>
<td>4.0 cr.</td>
</tr>
</tbody>
</table>

Course Director, David Gaspar, MD, 303-724-0971. Course coordinator Katie Watts, 303-724-0975.  
Prerequisite: Approval of Course Director and Associate Dean of Student Affairs, completion of course away form.  
Attend accredited foreign language school in a foreign country where language is spoken. Participation is 20 hrs/week of language class AND either a medical language course 5 hrs/week OR volunteer family medicine or general practice clinical activity 2 half days/week.
FMMD 6622  Intro FMMD Research  
Course Director, David Gaspar, MD, 303-724-0974. Course Coordinator, Katie Watts, 303-724-0975.
Provides students the skills in designing a primary care research project. Covers constructing research question, measurement of variables, reviewing literature, research design, reporting results and medical writing. This will serve as a foundation for the 4th year required scholarly project.

FMMD 6624  Hlthcare Poor/Homeless  
Course Director, Allegra Melillo, MD Course Coordinator, Katie Watts, 303-724-0975.
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 Saturday mornings 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, Brenda Baumgarten, 303-724-0340
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 6629 SABES Spanish Immersion  
Course Director, Steven Lowenstein, MD, MPH. 720-848-6777.
Course requirements: a two-semester elective. Students enrolled for fall semester will be automatically enrolled for spring semester. A one time fee of $30.00.
‘SABES’ Spanish Immersion takes a student/mentor approach to immersing students at all levels of Spanish acquisition to fortify Spanish Language ability. Course covers grammar and usage; emphasis is on constructing meaningful medical Spanish sentences, asking clinically relevant questions and understanding patients’ responses.

FMMD 6630  Summer Rural Track  
Course Director, Mark Deutchman, MD, 303-724-9753. Course Coordinator, Brenda Baumgarten, 303-724-0340.
In this 4-week clinical experience students will live in a preceptor’s community and participate in the professional and community life of a rural physician. Priority is given to students who have completed Rural Track elective course FMMD 6628.

INTERDEPARTMENTAL ELECTIVES

IDPT 5091  MSA Summer Elective  
Course Director, Allan Prochazka, MD. Course Coordinator, Stephanie Vetter, 303-724-7731.
Prerequisite: MSA 5090.
Students work intensively with mentors and Associate Directors on their project. Students critically review background literature, define a question/hypothesis, develop and implement methods and study design, collect data, potentially analyze and interpret data, written progress reports to Associate Director.

IDPT 5100 Special Foundations  
Course Director, Maureen Garrity, PhD. Course Coordinator, Vicki Melton, 303-724-6404.
Restrictions: Phase I students.
This is a one credit course for students who are taking time away from the traditional curriculum. Students enrolled will continue to work with their Foundation preceptor.

IDPT 6100 Indep Study in Medicine  
Course Director, Maureen Garrity, PhD. Course Coordinator, Vicki Melton, 303-724-6404.
Restrictions: Phase II students.
One credit course designed for students who are taking a period of time off from the traditional curriculum to do research or other academic work. The student and course director will develop a written plan to complete the studies.

IDPT 6623 Refugee Health I  
Course Director, Paritosh Kaul, MD, 720-777-6116. Course Coordinator, Deborah Stevens, 303-724-7740.
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 6627  Directed Study Basic Sci**  
Course Director, Maureen Gantly, PhD. Course Coordinator, Vicki Melton, 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 basic sciences. Course director approval required.  

**IDPT 6628  Nutrition and Cancer**  
Course Director, 303-724-3158; Course Coordinator, 303-724-3158.  
Human nutrition as it relates to clinical/biological aspects of cancer. Introduction to modern concepts of cancer development and treatment through seminars, patient presentations, lectures, discussion groups. Analyze your diet and what modifications seem likely to reduce the risks of cancer.  

**IDPT 6634  Maternity Matching**  
Course Director, Loraine Dugoff, MD  Course Coordinator, Tina Roquemore, 303-724-6421  
A two-semester course. Students observe the continuity of care for a pregnant woman and get exposure to those issues surrounding pregnancy. Goal is to improve the knowledge about the stages of pregnancy and patient education.  

**IDPT 6637  LEADS 1**  
Course Director, Jeremy Long, MD, 303-641-1951. Co-course Directors, Mark Earnest, MD, and Cathy Battaglia, PhD, M.S.H.A., R.N.  
**Restrictions:** 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  Hlth Care-Public Policy**  
Course Director, Wendy Madigosky, MD. Course Coordinator, Tina Roquemore, 303-724-6421.  
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 6642  Intro to Women’s Health**  
Course Director, Sonya Erickson, MD Course Coordinator, Melissa Lorenzo, 303-724-2038.  
**Prerequisite:** Course Director Approval required to add course.  
This course is the second in a series of electives being offered for the Women’s Health at the school of medicine. Primary care issues and literature search strategies will be emphasized.  

**IDPT 6643  Women’s Primary Care**  
Course Director, Sonya Erickson, MD, Course Coordinator, Melissa Lorenzo, 303-724-2038.  
**Prerequisite:** IDPT 6642.  
**Restrictions:** Must be phase I student. Permission of instructor.  
Assigned reading will frame discussions devoted to gender-based public health issues, women as research subjects, gender and communication.  

**IDPT 6644  Women’s Health Seminars**  
Course Director, Sonya Erickson, MD, Course Coordinator, Melissa Lorenzo, 303-724-2038.  
**Prerequisite:** IDPT 6642 and IDPT 6643.  
**Restrictions:** Must be Phase II student. Course Director approval.  
Students will discuss clinical issues in Women’s Health  

**IDPT 6647  LEADS 2**  
Course Director, Steve Federico, MD. Course Coordinator, Holly Hamilton, 303-724-8075.  
**Prerequisite:** IDPT6637 LEADS 1 – Spring Semester Elective.  
**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.
MED 6665  Intro to Global Health  Fall sem.  1.0  Min:10/Max:75
Course Director, Karen Gieseker, PhD, MS, 303-724-5694.
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, maternat-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 Hlth Studies (US)  Summer sem.  10.0 crs
Course Director, Karen Gieseker, PhD, MS, 303-724-5694.
Course Restrictions: Course director approval required to add course.

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

IDPT 6668 Global Hlth Study Abroad  Summer sem.  10.0 crs
Course Director, Karen Gieseker, PhD, MS, 303-724-5694.
Course Restrictions: Course director approval required to add course.

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

IDPT 6669 Global Health Seminar  Spring sem.  1.0 cr.
Course Director, Karen Gieseker, PhD, MS, 303-724-5694.
Course Restrictions: Course director approval required to add course.

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

IDPT 6671 Urban Underserved Care  Fall and Spring sem.  1.0 cr.  Min: 10/Max: 30
Course Director, Allegra Melillo, MD. Course Coordinator, Sarah Tilleman, 303-724-5586.
Restrictions: Only for CU-UNITE/Urban Underserved Track students.

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

IDPT 6672 Urban Underserved Care  2  Fall and Spring sem.  1.0 cr.  Min: 10/Max: 15
Course Directors, Jennifer Caragol, MD and Deb Seymour PsyD. Course Coordinator, Sarah Tilleman, MNM, 303-724-5586.
Restrictions: Only for CU-UNITE/Urban Underserved Track students.

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

IDPT 6673 CU-UNITE Span Immersion  Summer sem.  1.0 cr.  Min: 5/Max: 10
Restrictions: Only CU-UNITE Track Students accepted. \
CU-UNITE Spanish Immersion Track students only. This is a 4 week summer experience between Phase I and II in Costa Rica during which students will experience immersion in Spanish language and have clinical and community exposure.

MEDEICINE ELECTIVES

MED 6621 Geriatric Medicine  Fall and Spring sem.  2.0 cr.  Max: 2
Course Director, Susan Bray-Hall, MD, 303-393-2822. Course Coordinator, Lynn Blair, 303-393-2822.
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.

MED 6622 Intro Biomedical Research  Fall, Spring sems.  Var. cr.
Course Director, John Repine, MD, 303-315-8262.
Course Requirement: Prior approval by Course Director required to add this elective.

Independent study with a mentor of your choice. A short paper on a subject chosen by the student is usually required. Dr. Repine will meet with students interested in a career in academic medicine and/or research.
MED 6626  Molecular Biology Cancer  Fall sem.  1.0 cr.
Course Director, John Tentler, PhD, 303-724-3887. Course Coordinator, Evertyn Sandoval, 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/interpret literature and an appreciation of how biology impinges on the practical treatment of cancer.

MED 6627  Art in Med; Med in Art  Spring sem.  1.0 cr.
Course Director, Henry Claman, MD, 303-724-7188. Course Coordinator, Jeanne Kittle, 303-724-7198.
Included are The Arts in Medicine lectures, weekly critical reading in the anthology, On Doctoring, other texts and pictures in Medical Humanities. Also "Museum Rounds" at the Denver Art Museum, and a required piece of reflective writing, poetry and prose.

MED 6628  CAM/Alternative Medicine  Fall sem.  1.0 cr.
Course Director, Lisa Corbin, MD, 720-848-1225.
With 50% of the US population using CAM, physicians need education about its rational use. Through discussions and experiential sessions; therapies such as acupuncture, chiropractic, and herbs are presented. Students may spend a half-day at the Center for Integrative Medicine.

MED 6629  The Healer’s Art  Spring sem.  1.0 cr.
Co-Course Directors, Rachel Swigris, 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.

MED 6631  Med Student Journal Club  Spring sem.  1.0 cr.
This course will provide the opportunity to practice and solidify critical appraisal skills needed for interpreting primary clinical research studies and teach the skills required to apply this information to patient care using seminal research articles in medicine.

MED 6632  Lit, Art, & Medicine  Fall, Spring sem.  1.0 cr.
Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, MaryLou Wallace, 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.

ORTHOPAEDIC ELECTIVES

ORTH 6620  Intro to Orthopedics  Spring sem.  1.0 cr.
Course Director, Frank Scott, MD, 303-724-2968. Course Coordinator, Shanna Taylor, 303-724-2972.
Course Requirement: Must contact Course Director or Coordinator to arrange schedule after adding this elective.
This course covers an overview of orthopaedic surgery. Interactive lectures include musculoskeletal oncology, reconstructive surgery, trauma, sports medicine, spine surgery, hand surgery, and primary care orthopaedics. Students will also shadow and orthopedic surgeon during clinic and surgery on four afternoons.

OTOLARYNGOLOGY ELECTIVE

OTOL  6660  Career Elective in OTOL  All terms  1.0 crs.
Course Director, Julie Goddard, MD, 303-724-1949. Course Coordinator, Darc Diell, 303-724-1965.
Course Requirement: Prior approval by Course Director required to add this elective.
The Career Elective in Otolaryngology – Head & Neck Surgery will provide diverse sub-specialty clinical and operative exposure with physician specialists who diagnose and treat disorders of the ears, nose, throat and related structures of the head and neck.
### PED 6622 Diabetes Mellitus
**Summer sem.**  
3.0 cr.  
Max: 3  
Course Director, Paul Wadwa, MD, 303-724-6719.  
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.

### PED 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.

### PSYM 6620 PSCH in Great Literature
**Fall and Spr sems.**  
2.0 cr.  
Max: 15/Min: 4  
Course Director, Robert Davies, MD, 303-724-2229  
Course Coordinator, Sharon Campbell, 303-724-7400.  
**Course Requirement:** This is a two semester course. Students will automatically be enrolled for spring semester. 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, Sharon Campbell, 303-724-7400.  
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 6629 Medical Hypnosis
**Spring sem.**  
1.0 cr.  
Min: 4  
Course Director, Steve Allen, MD, 303-741-0239  
Course Coordinator, Sharon Campbell, 303-724-7400.  
Medical hypnosis has a wide application in primary care settings, but most primary care practitioners are unfamiliar with its use. Therefore, this course will teach students the basics of trance induction and its application for pain control, insomnia and relaxation.

### PSYM 6632 Denver CARES Elective
**Fall and Spring sems.**  
1.0 crs  
Course Directors, Charles Shuman, MD and Michael Weissberg, MD.  
Associate Director, Bob Davies, MD, 303-724-2229.  
Course Coordinator, Sharon Campbell, 303-724-7400.  
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 crs  
Course Director, Joseph Sakai, MD, 303-724-3182  
Associate Director, Bob Davies, MD, 303-724-2229.  
Course Coordinator, Sharon Campbell, 303-724-7400.  
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
**1.0 crs**  
Course Director, Jane Petersen, MD, Course Coordinator, Kathy Politis, 303-724-2712.  
**Requirement:** Prior approval by Course Director required to add this elective  
Students attend urology outpatient clinics; attend patient interview with resident; once instructed will complete a directed physical exam; audit patient counseling sessions; and discuss options for therapy of diagnosis made
## Phases 3 and 4 Required Clinical Clerkships for 2011-2012

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

### IDPT 7000 Foundations Doctoring 3
**Course Director:** Wendy Madigosky, M.D.  
**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
**Course Director:** Lisa Schilling, M.D., MSPH.  
**Course Coordinator:** Annie Lopez 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
**Course Directors:** Lisa Schilling, M.D., MSPH, 303-724-2254, Jennifer Adams, MD.  
**Course Coordinator:** Annie Lopez 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
**Course Directors:** Lisa Schilling, M.D., MSPH, 303-724-2254, Jennifer Adams, MD.  
**Course Coordinator:** Annie Lopez 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
**Course Directors:** Nicole Zehnder, MD and Adam Trosterman, M.D.  
**Course Coordinator:** Bonnie Caywood, 303-724-1799.

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.

### IDPT 7020 Infant/Adolescent Care
**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.

### IDPT 7021 Musculoskeletal Care
**Course Director:** Frank Scott, MD, 303-724-2968.  
**Co-Director:** William Sullivan, MD.  
**Course Coordinator:** Shana Taylor, 303-724-2972

This block combines Orthopaedics, 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.

### IDPT 7030 Women and Newborn Care
**Course Director:** Kristina Tocce, M.D.  
**Course Coordinator:** Rochelle Cassell, 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.

### IDPT 7031 Emergency Care
**Co-Course Directors:** Lynne M. Yancey, M.D. and Tien Vu, 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.
IDPT 7040 **Psychiatric Care**  All terms  8.0 crs
Course Director, Michael Weissberg, M.D.  Course Coordinator, Jennifer White, 303-724-7401.
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.

IDPT 7041 **Neurologic Care**  All terms  8.0 crs
Course Director, Chantal O’Brien, M.D.  Course Coordinator, Rachelle Waller, 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.

IDPT 7050 **Peri/Operative Care**  All terms  16.0 crs
Co-Course Directors, Thomas Whitehill, M.D. and Nathaen Weitzel, M.D.  Co-Course Coordinator, Janice Frary, 303-724-2681 and Kay Oliver, 303-724-1765.
While gaining experience in surgery and anesthesiology, students study surgical diseases and participate in the operative care and delivery of anesthesia during the perioperative period. Assessment and management of common inpatient and ambulatory procedures are emphasized from initial patient referral to discharge.

IDPT 7060 **Adult Ambulatory Care**  All terms  8.0 crs
Course Director, Kelly White, M.D.  Course Coordinator, Kathy Werfelmann, 303-724-1798.
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 terms  8.0 crs
Course Director, David Gaspar, M.D.  Course Coordinator, Katie Watts, 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 7090 **Mentored Scholarship**  Fall, Spring sems.  1.0 crs
Course Director, Allan Prochazka, MD.  Course Coordinator, Stephanie Vetter, 303-724-7731.
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 7727 **Directed Study Clin Sci**  All terms  2 – 12 wks
Course Director, Maureen Garrity, Ph.D.  Course Coordinator, Vicki Melton, 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.
PHASE 4 ELECTIVES 2011-2012

Prerequisite for all Phase 4 electives: Completion of Phase 3

**ANESTHESIOLOGY ELECTIVES**

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<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
<th>Max:</th>
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<tbody>
<tr>
<td>ANES 8000</td>
<td>Clinical Anesthesiology</td>
<td>2 or 4 wks</td>
<td>4</td>
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<td></td>
<td>Course Director, Alison Brainard, MD, 720-848-5566. Course Coordinator, Kay Oliver, 303-724-1765. 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.</td>
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<tr>
<td>ANES 8001</td>
<td>Surgery Intensive Care</td>
<td>4 wks</td>
<td>2</td>
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<td>Course Director, Fareed Azam, MD, 303-266-6420. Course Coordinator, Kay Oliver, 303-724-1765. Prerequisites: Anesthesiology &quot;This Sub-I course meets the UC SOM requirement for graduation.&quot; Our goal is to prepare MSIV's for internship by having them managing their patients, presenting on multidisciplinary rounds, calling consults, assisting/performing procedures, discussing clinical topics &amp; receiving didactics. Honors are possible, requiring clinical excellence &amp; a written paper.</td>
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<tr>
<td>ANES 8002</td>
<td>Anes Subspecialties</td>
<td>2 or 4 wks</td>
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<td>Course Director, Alison Brainard, MD, 720-848-5566. Course Coordinator, Kay Oliver, 303-724-1765. Prerequisites: Anesthesiology Course exposes students to subspecialty areas in Anesthesiology. Students will attain additional experience in selected areas of anesthetic practice. Options include Acute and Chronic Pain, L &amp; D, Cardiothoracics, Neurosurgery, Transplants and Pre-Anesthesia Testing.</td>
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<tr>
<td>ANES 8100</td>
<td>ANES Elective Away</td>
<td>2 or 4 wks</td>
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<td>Course Director, Alison Brainard, MD, 720-848-5566. Course Coordinator, Kay Oliver, 303-724-1765. This Anesthesiology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to start. Additionally, international sites must be preapproved by Student Affairs.</td>
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<tr>
<td>ANES 8600</td>
<td>Research Anesthesiology</td>
<td>2 - 12 wks</td>
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<td>Course Director, Paul Wischmeyer, MD, 720-848-6700. Course Coordinator, Kay Oliver, 303-724-1765. Prerequisite: Special permission and individual arrangements required in advance. The student must receive prior approval from the Associate Dean for Student Affairs.</td>
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<tr>
<td>ANES 8630</td>
<td>ANES Research Away</td>
<td>2, 4, 6, or 8 wks</td>
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<td>Course Director, Paul Wischmeyer, MD, 720-848-6700. Course Coordinator, Kay Oliver, 303-724-1765. This Anesthesiology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to start. Additionally, internationally sites must be preapproved by Student Affairs.</td>
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**DERMATOLOGY ELECTIVES**

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
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<tbody>
<tr>
<td>DERM 8000</td>
<td>Clinical Dermatology</td>
<td>2 or 4 wks</td>
<td>8</td>
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<td></td>
<td>Course Director, Cory Dunnick, MD, 720-848-0510. 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.</td>
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<tr>
<td>DERM 8300</td>
<td>DERM Elective Away</td>
<td>2 or 4 wks</td>
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<td>Course Director, Cory Dunnick, MD, 720-848-0510. This Dermatology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.</td>
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<tr>
<td>DERM 8600</td>
<td>Research in Dermatology</td>
<td>4-12 wks</td>
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<td>Course Director, Cory Dunnick, MD, 720-848-0510. Prerequisite: Director approval required to register. 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.</td>
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<tr>
<td>DERM 8630</td>
<td>DERM Research Away</td>
<td>2, 4, 6, or 8 wks</td>
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<td>Course Director, Cory Dunnick, MD, 720-848-0510. This Dermatology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.</td>
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# EMERGENCY MEDICINE ELECTIVES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8004</td>
<td><strong>Emergency Med Univ Hosp</strong></td>
<td>4 wks</td>
<td>Max: 4</td>
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<td>Course Director, Jason Hoppe, DO. Course Coordinator, Marybeth Hutchins, 720-848-6777. 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.</td>
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<tbody>
<tr>
<td>EMED 8005</td>
<td><strong>Emergency Medicine DHMC</strong></td>
<td>4 wks</td>
<td>Spring Sem. Max: 4</td>
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<td>Course Director, David Richards, MD. Course Coordinator, Linda Anderson, 303-436-7129. Course restrictions: Emergency Medicine Career track students only until Section 21. Student is 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 am., Admin Conf. room.</td>
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<tbody>
<tr>
<td>EMED 8006</td>
<td><strong>Emer Med Career Elective</strong></td>
<td>4 wks</td>
<td>Summer, Fall Sems. Max: 4</td>
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<td></td>
<td>Course Director, David Richards, MD. Course Coordinator, Linda Anderson, 303-436-7129. Restrictions: Emergency Medicine Career track students only until Section 21. Student is 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 am, Admin Conference room.</td>
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<tbody>
<tr>
<td>EMED 8024</td>
<td><strong>Clinical Toxicology</strong></td>
<td>4 wks</td>
<td>Max: 2</td>
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<td></td>
<td>Course Director, Kennon Heard, MD, 303-739-1264. Course Coordinator, Darlene Vigil, 303-389-1350. Provides and introduction to medical toxicology at the RMPDC. Student will participate in clinical service including telephone consultation, fundamentals of environmental toxicology, public health concerns, and occupational toxicology. Each student will make one presentation toward the end of their rotation.</td>
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<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8025</td>
<td><strong>Clin Bedside Ultrasound</strong></td>
<td>2 or 4 wks</td>
<td>Max: 4</td>
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<td>Course Director, John Kendall, MD, 303-436-7148. <a href="mailto:John.kendall@dhha.org">John.kendall@dhha.org</a>. Clinician-performed ultrasound is an integral skill in a number of medical specialties. This elective will enable students to gain valuable skills related to the acquisition and interpretation of bedside ultrasound images. This elective will involve didactic and hands-on educational opportunities.</td>
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<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8030</td>
<td><strong>Rural Emergency Medicine</strong></td>
<td>2 or 4 wks</td>
<td>Max: 10</td>
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<td></td>
<td>Course Director, Jeff Druck, MD, 720-848-6773. 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.</td>
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<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8031</td>
<td><strong>Wilderness Medicine</strong></td>
<td>2 wks, Spring Sem. Min:10/Max:25</td>
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<td>Co-Course Directors, Barbara Blok, MD and Kelly Bookman, MD Course Coordinator, Cathy Maciel, 720-848-6777. 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 attend lectures on wilderness medicine topics and then practice those scenarios in wilderness settings. The course will spend the first week near Estes Park, CO and the second week near Moab, UT.</td>
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<tbody>
<tr>
<td>EMED 8100</td>
<td><strong>EMED Elective Away</strong></td>
<td>2 or 4 wks.</td>
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<td>Course Director, Jeffrey Druck, MD. Course Coordinator, Marybeth Hutchins, 720-848-6768. This Emergency Medicine elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.</td>
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<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8600</td>
<td><strong>Research in EMED</strong></td>
<td>2, 4, 6, 8, 10, or 12 wks.</td>
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<td>Course Director, Jason Haukoos, MD. Course Coordinator, Linda Anderson, 303-436-7129. 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.</td>
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<th>Course Code</th>
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<th>Restrictions</th>
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<tbody>
<tr>
<td>EMED 8630</td>
<td><strong>EMED Research Away</strong></td>
<td>2 or 4 wks.</td>
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<tr>
<td></td>
<td>Course Director, Jeffrey Druck, MD. Course Coordinator, Marybeth Hutchins, 720-848-6768. This Emergency Medicine research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.</td>
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### FAMILY MEDICINE ELECTIVES

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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
<th>Sections</th>
<th>Instructor(s)</th>
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</thead>
<tbody>
<tr>
<td>FMMD 8002</td>
<td>Family Med Subinternship</td>
<td>4 wks</td>
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<td>Course Director, Michael Bross, MD, Course Coordinator, Mandy Whitton, 720-848-9100.</td>
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<td><em>This Sub-I course meets the UC SOM requirement for graduation.</em></td>
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<td>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).</td>
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<tr>
<td>FMMD 8005</td>
<td>Care for Underserved</td>
<td>2 wks</td>
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<td>Course Director, Richard Kornfeld, MD, 720-956-2039. Course Coordinator, Mandy Whitton, 720-848-9100.</td>
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<td>Prerequisite: Course Director approval required to register.</td>
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<td>Offered at Lowry Family Health Center. Interaction with culturally varied refugee and underserved populations, gain insight into the challenges faced by these underserved populations and assess if your future practice goals include serving these groups.</td>
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<tr>
<td>FMMD 8007</td>
<td>Out-Patient Family Med</td>
<td>4 wks</td>
<td>Fall, Spring Sems.</td>
<td>Course Director, Mortez Khodaei, MD, 720-848-9056. Course Coordinator, Mandy Whitton, 720-848-9100.</td>
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<td>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.</td>
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<tr>
<td>FMMD 8008</td>
<td>Occup/Envir Med in FM</td>
<td>2 or 4 wks</td>
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<td>Course Director, David Gaspar, MD Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Prerequisite: Course director approval required to add this elective.</td>
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<td>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.</td>
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<td>FMMD 8009</td>
<td>Directed Study in FM</td>
<td>2, 4, 6, or 8 wks</td>
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<td>Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-0974</td>
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<td>Prerequisite: Course director approval required to add this elective.</td>
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<td>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.</td>
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<tr>
<td>FMMD 8010</td>
<td>Preventive Hlth Elective</td>
<td>2 wks</td>
<td>Spring Sem.</td>
<td>Course Directors, Michele Doucette, PhD and Bonnie Jortberg, MS, RD, CDE, Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Prerequisite: Course Director or Coordinator approval required to add elective.</td>
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<td>Restrictions: Only available sections 45-46. Students will understand the role of nutrition, physical activity and behavior change in disease prevention and treatment through experiential learning.</td>
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<tr>
<td>FMMD 8011</td>
<td>Colon Cancer &amp; Endoscopy</td>
<td>2 wks</td>
<td>Fall, Spring Sems.</td>
<td>Course Director, John M. Westfall, MD, MPH. 303-724-9712. <a href="mailto:Jack.Westfall@ucdenver.edu">Jack.Westfall@ucdenver.edu</a>. Course Coordinator, Beth Ingram, 303-724-0360.</td>
</tr>
<tr>
<td></td>
<td>Prerequisite: Course Coordinator approval required to add this course. Email: <a href="mailto:Beth.Ingram@ucdenver.edu">Beth.Ingram@ucdenver.edu</a>.</td>
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<td>Course Restrictions: Not available summer semester. An independent study of the epidemiology, pathophysiology, clinical presentation, screening and prevention of colorectal cancer. Students will complete an online didactic course, 30-40 lower GI endoscopy cases on state-of-the-art endoscopy simulator and possibly a clinical observation experience.</td>
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<tr>
<td>FMMD 8012</td>
<td>Oral Health:Acute Dental</td>
<td>2 wks</td>
<td>Fall, Spring Sem</td>
<td>Course Director, Mark Deutchman, MD. 303-724-9725, <a href="mailto:mark.deutchman@ucdenver.edu">mark.deutchman@ucdenver.edu</a>.</td>
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<td></td>
<td>Prerequisite: Course Director approval. Restrictions: This elective offered only at selected times. It will not be offered in June, July, August, or December. The focus of this elective is on recognition, assessment, triage, and treatment of acute dental problems, such as pain, infection, and trauma. Students interested in rural or underserved primary care practice should take this elective.</td>
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<tr>
<td>FMMD 8013</td>
<td>Oral Health: Children</td>
<td>2 wks</td>
<td>Fall, Spring Sem</td>
<td>Course Directors, Mark Deutchman, MD, 303-704-9725. <a href="mailto:mark.deutchman@ucdenver.edu">mark.deutchman@ucdenver.edu</a> and Elizabeth Shick, DDS.</td>
</tr>
<tr>
<td></td>
<td>Course Restrictions: Course Director approval required. This elective is offered only at selected times. Students will learn to perform oral examinations on young children, recognize dental caries and other dental problems, apply fluoride varnish and collaborate with oral health professionals. Students interested in rural or underserved primary care practice should take this elective.</td>
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<td>Course Code</td>
<td>Course Name</td>
<td>Weeks</td>
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<tr>
<td>FMMD 8014</td>
<td>PCMH: Concept &amp; Practice</td>
<td>2 wks</td>
<td>Fall, Spring</td>
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<td>Course Directors, David Gaspar, MD and Scott Hammond, MD. Course Coordinator, Katie Watts, 303-724-0975.</td>
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<td>Course Restrictions: Elective only offered Sections 39 &amp; 40. Prior approval by the Course Director or coordinator needed. Lean why the Patient Centered Medical Home is a comprehensive model that will revolutionize primary care of the 21st century. Students will study the evidence behind the main principles of the PCMH and experience them in action at PCMH-certified clinics.</td>
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<tr>
<td>FMMD 8015</td>
<td>Correctional Health Care</td>
<td>2 or 4 wks</td>
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<td>Course Directors, David Gaspar, MD and David Allred, DO. Course Coordinator, Katie Watts, 303-724-0975.</td>
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<td>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.</td>
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<tr>
<td>FMMD 8016</td>
<td>Sub-I at Colorado FMRs</td>
<td>4 wks</td>
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<td>Course Directors, David Gaspar, MD and David Allred, DO. Course Coordinator, Katie Watts, 303-724-0975.</td>
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<td>Course Restrictions: Required Sub-I 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. Then DFM Director’s approval. 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. Meets required Sub-I criteria.</td>
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<tr>
<td>FMMD 8100</td>
<td>FMMD Elective Away</td>
<td>2 or 4 wks</td>
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<td>Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-0975.</td>
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<td>Restrictions: Must work with a family physician. Students must have learning objectives approved by course director. This Family Medicine elective will be held at a site in Colorado or another state. Students must obtain departmental approval one month prior to the start.</td>
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<tr>
<td>FMMD 8400</td>
<td>International FM</td>
<td>4 - 16 wks</td>
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<td>Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Restrictions: May not register for final 6 weeks for academic year. Supervising physician must be a family physician. Prerequisite: Approval from Course Director and the Associate Dean for Student Affairs required to register. Management of problems common to Family Medicine outside of the United States. Inpatient and outpatient experiences are acceptable. Successful International Experiences sessions are required. Arrangements must be completed 60 days prior to the elective.</td>
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<tr>
<td>FMMD 8411</td>
<td>Foreign Language Immersion</td>
<td>4 - 8 wks</td>
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<td>Course Directors, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Restrictions: May not register for final 6 weeks of academic year. Not available for honors grading. Prerequisites: Prior approval of the Course Director and from the Associate Dean of Student Affairs required to register. 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 must be completed 60 days prior.</td>
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<tr>
<td>FMMD 8600</td>
<td>Research in FM</td>
<td>2 - 12 wks</td>
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<td>Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Prerequisite: Prior approval from Course Director. 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.</td>
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<tr>
<td>FMMD 8630</td>
<td>FMMD Research Away</td>
<td>2, 4, 6, or 8 wks</td>
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<td>Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-0975.</td>
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<td>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 Family Medicine research elective will be held at a site in Colorado or another state. Students must obtain departmental approval one month prior to the start.</td>
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<tr>
<td>FMMD 8640</td>
<td>Int’l FM Research</td>
<td>4 - 16 wks</td>
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<td>Course Directors, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-9700.</td>
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<td>Restrictions: May not register for final 6 weeks of academic year. Not available for Honors grading. Prerequisites: Departmental approval must be obtained and all arrangements made at least one semester in advance. Approval of the Associate Dean for Student Affairs required. Primary care research opportunities are available outside the United States. This elective may be used for the MSA. Successful International Experiences sessions are required.</td>
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## INTERDEPARTMENTAL ELECTIVES

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Offered</th>
<th>Course Director(s)</th>
<th>Contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>IDPT 8000</td>
<td><strong>Foundations Doctoring IV</strong></td>
<td>Summer, Fall, Spring</td>
<td>Wendy Madigosky, MD, 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.</td>
<td><a href="mailto:Laura.primak@ucdenver.edu">Laura.primak@ucdenver.edu</a>, 303-506-5228.</td>
</tr>
<tr>
<td>IDPT 8001</td>
<td><strong>Tutoring in Foundations</strong></td>
<td>Fall, Spring</td>
<td>Wendy Madigosky, MD, 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.</td>
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<tr>
<td>IDPT 8002</td>
<td><strong>Geriatrics</strong></td>
<td>4 wks</td>
<td>Laurence J. Robbins, MD Course Coordinator, Lynn Blair, 303-393-2822.</td>
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</tr>
<tr>
<td>IDPT 8003</td>
<td><strong>Integrated Clinicians 4</strong></td>
<td>Spring Semester</td>
<td>Lisa Schilling, MD, MSPH, Jeffrey Druck, MD Course Coordinator, Annie Lopez Osendorf, 303-724-4558.</td>
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<tr>
<td>IDPT 8004</td>
<td><strong>Integrated Clinicians 5</strong></td>
<td>Spring Semester</td>
<td>Lisa Schilling, MD, MSPH, Jeffrey Druck, MD Course Coordinator, Annie Lopez Osendorf, 303-724-4558.</td>
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<tr>
<td>IDPT 8005</td>
<td><strong>Clinical Nutrition</strong></td>
<td>Spring Semester</td>
<td>Nancy Krebs, MD, MS. Course Coordinator, Laura Primak, RD, CNSD, preferred contact: <a href="mailto:laura.primak@ucdenver.edu">laura.primak@ucdenver.edu</a>, alternative cell: 303-506-5228. Please email course coordinator two weeks prior to start date.</td>
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<tr>
<td>IDPT 8007</td>
<td><strong>Medicine / Pediatrics</strong></td>
<td>2 or 4 wks</td>
<td>Eva Aagaard, MD Course Coordinator, Bonnie Caywood, 303-724-1790.</td>
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</tr>
<tr>
<td>IDPT 8011</td>
<td><strong>Clinical Nutrition</strong></td>
<td>2 wks</td>
<td>Nancy Krebs, MD, MS. Course Coordinator, Laura Primak, RD, CNSD, preferred contact: <a href="mailto:laura.primak@ucdenver.edu">laura.primak@ucdenver.edu</a>, alternative cell: 303-506-5228. Please email course coordinator two weeks prior to start date.</td>
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<tr>
<td>IDPT 8012</td>
<td><strong>Tropical Medicine</strong></td>
<td>2 wks</td>
<td>Stephen Berman, MD; Joe Wathen, MD; Pat Mahar, MD; Karen Gieseker, PhD.; Course Coordinator, Michelle Shiver, 303-724-9771.</td>
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<tr>
<td>IDPT 8013</td>
<td><strong>Global Hlth US Project</strong></td>
<td>4 – 8 wks</td>
<td>Karen Gieseker, PhD, MS, 303-724-5694. Course Coordinator, Michelle Shiver, 303-724-9771.</td>
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<tr>
<td>IDPT 8014</td>
<td><strong>Global Hlth Intl Project</strong></td>
<td>4 – 8 wks</td>
<td>Karen Gieseker, PhD, MS, 303-724-5694. Course Coordinator, Michelle Shiver, 303-724-9771.</td>
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MEDICINE ELECTIVES

**IDPT 8016 Physician as Educator**  
*Fall and Spring Sems.*  
*Min:5/Max:30*  
Course Director, Allegra Melillo, MD. Course Coordinator, Katie Watts, 303-724-9700.  
Course Restrictions: This is a two-semester course offered fall and spring semesters. For graduation requirements, each semester counts two weeks.  
This elective is designed 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.

**IDPT 8017 Culturally Effective Medicine**  
*Spring semester*  
*2 wks*  
Course Director, Paritosh Kaul, MD. Course Coordinator, Regina Richards, MSW, 303-724-4537.  
Course Restriction: 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.

**IDPT 8090 Mentored Scholarship**  
*Fall and Spring*  
Course Director, Allan Prochazka, MD. Course Coordinator, Stephanie Vetter, 303-724-7731.  
Prerequisite: MSA form required – see Stephanie Vetter, 303-724-7731. Prior approval of Associate Dean for Student Affairs, Mentor, and Course Director required.  
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 date, analyze and interpret data, and submit written progress reports for their MSA project.

**IDPT 8091 MSA Phase IV Preparation**  
*Summer, Fall, Spring Sem.*  
*4 wks*  
Course Director, Allan Prochazka, MD Course Coordinator, Stephanie Vetter, 303-724-7731.  
Prerequisite: MSA form required – see Stephanie Vetter, 303-724-7731. Prior approval of Associate Dean for Student Affairs, Mentor, and Course Director 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**  
*Summer, Fall, Spring*  
*4 wks*  
Course Director, Maurene Garrity, Ph.D. Course Coordinator, Vicki Melton, 303-724-6404.  
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 8601 Research Track, Rsrch I**  
*Summer, Fall, Spring*  
*4 wks*  
*Max:20*  
Course Director, Randy Ross, MD. Course Coordinator, Stephanie Vetter, 303-724-7731.  
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, Rsrch II**  
*Summer, Fall, Spring*  
*4 wks*  
*Max:50*  
Course Director, Randy Ross, MD. Course Coordinator, Stephanie Vetter, 303-724-7731.  
Prerequisite: IDPT 8601, Research Track, Rsrch I.  
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 – 8 wks*  
Course Director, Maurene Garrity, Ph.D.: Course Coordinator, Vicki Melton, 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.

**Meds 8001 Medicine Subinternship**  
*4 wks*  
*Max: 16*  
Course Director, Adam Trosterman, MD. Course Coordinator, Bonnie Caywood, 303-724-1790.  
"This Sub-I course meets the UC SOM requirement for graduation."  
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.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>MEDS 8003</td>
<td>Transfusion Medicine</td>
<td>4 wks</td>
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<td>Course Director, Daniel R. Ambrose, MD, 303-363-2241. Course Coordinator, Christian Snyder, 303-363-2241. Course Restrictions: Notification of, and approval by course director before students start the course. 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>MEDS 8004</td>
<td>Cardiology</td>
<td>4 wks</td>
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<td>Course Director, Peter M. Buttrick, MD, 303-724-2089. Course Coordinator, Allison English, 303-724-2089. Designed to offer a broad general exposure to adult cardiology, including history, physical examination, and an introduction and review of standard noninvasive testing. Rotations will be at UCH, DVAMC and DHMC with assignments based on timing of request and availability.</td>
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<tr>
<td>MEDS 8005</td>
<td>Cardiac Diagnostic Skill</td>
<td>2 wks</td>
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<td>Course Directors, William Nelson, MD and Michael Fisher, MD. Course Coordinator, Rebecca Schoby, 303-866-8885. Restrictions: Course may only be added during a drop/add time. 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>MEDS 8006</td>
<td>Allergy/Clin Immunology</td>
<td>4 wks</td>
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<td>Course Director, Stephen Dreskin, MD, 303-724-7198. Course Coordinator, Jeanne Kittle, 303-724-7198. Prerequisite: Course Director approval required to add course. Offered at UH and NJMC. Allergy and clinical immunology with direct patient contact in allergy and immunology clinics. Opportunities to participate in inpatient consultations, observe clinical immunology laboratory techniques, and library research.</td>
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<tr>
<td>MEDS 8007</td>
<td>Clinical Renal</td>
<td>4 wks</td>
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<td>Course Director, James Cooper, MD. Course Coordinator, Jennifer Herzog, 303-724-4851. 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>MEDS 8009</td>
<td>Clin Infectious Diseases</td>
<td>4 wks</td>
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<td>Course Director, Nancy Madinger, MD Course Coordinator, Elisabeth Levy, 303-724-8556. Restrictions: Course Director approval. (Note: A 2-week elective may be available.) UCH and DHMC. 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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<tr>
<td>MEDS 8010</td>
<td>Clin Gastroenterology</td>
<td>4 - 12 wks</td>
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<td>Course Director, Joel Levine, MD. Course Coordinator, Kendra Burghardt, 303-724-1858. 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.</td>
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<td>MEDS 8011</td>
<td>Pulmonary</td>
<td>4 wks</td>
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<td>Course Director, Joe Crossno, MD. Course Coordinator, Jessica Cunningham, 303-724-6108. 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.</td>
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<td>MEDS 8012</td>
<td>Clinical Rheumatology</td>
<td>4 wks</td>
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<td>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.</td>
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<tr>
<td>MEDS 8013</td>
<td>Endocrinology</td>
<td>4 or 6 wks</td>
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<td>Course Director, Cecilia Wang, MD. 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.</td>
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<tr>
<td>MEDS 8014</td>
<td>Hematology / Oncology</td>
<td>4 wks</td>
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<td>Course Director, Paul Seligman, MD. 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.</td>
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</table>
M Edwards 8017 Hospice/Palliative Care 2 or 4 wks Max: 1
Course Director: Jeanie Youngwerth, MD., 720-848-4289.
Prerequisite: Course Director approval required. Contact Dr. Youngwerth 1 week prior to starting via email Jean.Youngwerth@ucdenver.edu.
Restriction: Please contact Dr. Youngwerth via email if you drop the course.
This is an introduction to hospice and palliative care. You will become a member of the interdisciplinary team at the Hospice of Saint John, focusing on the physical, social, psychological, and spiritual aspects of patient care for the terminally ill.

M Edwards 8021 Clinical Medical Spanish 4 wks Fall, Spring Sem Max: 14
Course Director, Monica Carter, MD. Course Coordinator, Rory Foster, 303-684-5557, Common Ground International.
Prerequisites: 2 years of classroom Spanish language instruction (i.e. 2 semesters of college level Spanish), basic Spanish language conversation ability, some knowledge of Medical Spanish. Evaluation by Spanish language instructor prior to registration approval is required.
Restriction: Course fee of $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; home visits with the mobile care unit; and a final scholarly presentation.

M Edwards 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
Restrictions: Course Director approval required. Not offered in December.
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.

M Edwards 8023 Medicine Consult 2 or 4 wks Max: 2
Course Director, Jeffrey Carter, MD, 720-848-6263. Jeffrey.Carter@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.

M Edwards 8025 Medical Oncology 4 wks Max: 2
Course Director, Karl Lewis, MD, 720-848-0584.
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.

M Edwards 8026 Medical Oncology Sub I 4 wks Max: 1
“This course does not meet Sub-I qualifications.”
Course Director, Karl Lewis, MD, 720-848-0584.
“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.

M Edwards 8029 Applied Clin Pharmacol 4 wks Fall Sem. Max: 120/Min: 20
Course Director, Curt Freed, MD, 303-724-6002. Course Coordinator, Laura Grubbs, 303-724-6015.
Restriction: 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.

M Edwards 8032 Corrections Health Care 2 wks Max: 1
Course Directors, Ingrid Binswanger, MD, MPH. Peter Crum, MD, Course Coordinator, Bonnie Caywood, 303-724-1790.
Prerequisite: One month notice needed to schedule this elective.
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).

M Edwards 8034 Sub I Crit Care StJoseph 4 wks Max: 3
“This Sub-I course meets the UC SOM requirement for graduation.”
Course Director, Lisa Cyran, MD Course Coordinator, Rebecca Schoby, 303-866-8885.
“This Sub-I course does not meet the UC SOM requirement for graduation.”
Student functions as an acting intern and admits patients during overnight call every third day. Students will attend daily ICU interdisciplinary rounds and enhance skills in reporting, interpreting clinical information, communication, patient management.

M Edwards 8036 Sub I Critical Care DHMC 4 wks Max: 2
Course Director, James H. Fisher, MD, Course Coordinator, Doris Quintana, 303-436-5905.
Prerequisites: Sub-I in medicine or surgery. Course Director approval required to add this course.
“This Sub-I course does not meet the UC SOM requirement for graduation.”
This 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.
**NEUROLOGY ELECTIVES**

**MEDS 8037**  **Sub I Critical Care UH**  
4 wks  
Course Director, Ellen Burnham, MD  
Course Coordinator, Michelle Kerklo, 303-724-6079.  
Prerequisites: Sub I in Medicine or Surgery.  
**“This Sub-I course DOES NOT meet UC SOM requirement for graduation.”**  
The critical care sub-internship will provide training in the care of critically ill ICU patients. Emphasized skills will include management of respiratory failure, hemodynamic instability, severe electrolyte abnormalities, gastrointestinal emergencies and common ICU procedures.

**MEDS 8038**  **CAM Wellness Elective**  
Fall, Spring sem.  
4 wks  
Min:2/ Max: 6  
Course Director, Lisa Corbin, MD  
720-848-1225.  
In-depth exploration of CAM therapies and personal wellness will be facilitated through didactic sessions, field trips, online learning, reflection, and self-directed project. Students will work collaboratively in groups and the time will be tailored to individual goals.

**MEDS 8039**  **AIDS & American Culture**  
Spring sem.  
2 wks  
Min:4/ Max: 20  
Course Director, Therese Jones, PhD, 303-724-3995.  
Course Coordinator, Mary Lou Wallace, 303-724-3994.  
This course approaches HIV/AIDS as a biomedical, social, political, and creative phenomenon. We will investigate the discourse and images of AIDS in journalistic writing, autobiography, fiction, poetry, film, television, and photography.

**MEDS 8040**  **Film and Mental Illness**  
Spring sem.  
2 wks  
Min:4/ Max: 25  
Course Director, Therese Jones, PhD, 303-724-3995.  
Course Coordinator, Mary Lou Wallace, 303-724-3994.  
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, Eva Aagaard, MD.  
Course Coordinator, Bonnie Caywood, 303-724-1790.  
Prerequisite: Course Director approval required to add course.  
Restriction: Not available sections 49 and 50.  
This student-developed elective in Internal Medicine may be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.  
Course is Pass/Fail only.

**MEDS 8600**  **Research in Medicine**  
2-12 wks  
Course Directors: Britta Jacobsen, PhD and Eva Aagaard, MD.  
Course Coordinator, Bonnie Caywood, 303-724-1790.  
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, Kathy Werfelmann, 303-724-1798.  
Prerequisite: Course Director approval – the student must speak with Dr. Repine beforehand to understand the nature of the 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, 6, or 8 wks  
Course Directors, Eva Aagaard, MD and Britta Jacobsen, PhD.  
Course Coordinator, Kathy Werfelmann, 303-724-1798.  
Restrictions: Not available sections 49-50.  
This course is graded on a pass/fail basis only.  
This Medicine research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

**NEUR 8000**  **Neurology**  
2 or 4 wks  
Max: 3  
Course Director, Chantal O’Brien, MD.  
Course Coordinator, Leah Lleras, 303-724-5899.  
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, Leah Lleras, 303-724-5899.
Restrictions: Per Office of Student Affairs guidelines.
This Neurology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

NEUR 8600  Research in Neurology 2 - 12 wks
Course Director, Chantal O’Brien, MD. Course Coordinator, Leah Lleras, 303-724-5899.
Prerequisite: The student must receive approval from the Associate Dean for Student Affairs and the Course Director one month in advance.
This course will allow the student to design and conduct research project with a member of the Neurology Faculty.

NEUR 8630  NEUR Research Away 2, 4, 6, or 8 wks
Course Director, Chantal O’Brien, MD. Course Coordinator, Leah Lleras, 303-724-5899.
Prerequisite: Approval of Course Director and Associate Dean for Student Affairs one month in advance.
This Neurology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

OBSTETRICS AND GYNECOLOGY ELECTIVES

OGBY 8000  General Obstetrics Sub I 4 wks Max: 1
Course Director, Kathy Witzeman, MD. 303-602-9725. Course Coordinator, Rochelle Cassell, 303-724-2031.
“This Sub-I course meets the UC SOM requirement for graduation.”
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, Rochelle Cassell, 303-724-2031.
“This Sub-I course meets the UC SOM requirement for graduation.”
Offered at DHMC only. Includes experience in outpatient gynecology, family planning, operative gynecology and postoperative care. Student works under supervision of residents and attending staff.

OGBY 8002  Directed Study in OB/GYN 4 - 8 wks
Course Director, Lorraine Dugoff, MD. 303-724-2044. Course Coordinator, Rochelle Cassell, 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.

NEUROSURGERY ELECTIVES

NSUR 8014  Neurosurgery Sub I 2, 4, or 6 wks
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Hasenbalg, 303-724-2302.
“Sub-I course meets the UC SOM requirement for graduation.” 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 Hasenbalg, 303-724-2302.
This Neurosurgery elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

NSUR 8600  Research in Neurosurgery 2 - 12 wks
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Hasenbalg, 303-724-2302
Prerequisites: Departmental approval must be obtained and all arrangements made at least one month in advance.
A written evaluation must be sent to Dr. Kathryn Beauchamp and Krystin Hasenbalg.

NSUR 8630  NSUR Research Away 2, 4, 6, or 8 wks
Course Director, Kathryn Beauchamp, MD. Course Coordinator, Krystin Hasenbalg, 303-724-2302.
Restrictions: Not available sections 49-50.
This Neurosurgery research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.
### OBGY 8004  High Risk Maternal/Fetal

**Course Director:** Lorraine Dugoff, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Prerequisites:** Departmental approval must be obtained and all arrangements must be made one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

- **Course Description:** Intensive exposure to problems of high-risk obstetrics. Student will work under supervision of the Maternal-Fetal Medicine Staff. Students will attend high-risk clinics, have primary responsibility for patient care in the antepartum unit under supervision of chief resident.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8005  Gynecologic Oncology

**Course Director:** Michael Kelly, 303-724-2066. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Course Description:** 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.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8009  GYN Subspecialties

**Course Director:** Kristina Tocce, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Course Description:** Students will attend outpatient gynecologic diagnostic clinics, colposcopy and laser surgery, urogynecology, urodynamics, hysteroscopy, and pelvic pain. Student works under supervision of Gyn staff. Directed study and clinical research. Attendance at colposcopy biopsy review conference, preoperative and Gyn teaching conferences required.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8010  Reproductive/Infertility

**Course Director:** Ruben Alvero, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

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

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8011  Family Planning

**Course Director:** Kristina Tocce, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Course Description:** This elective is designed for senior students seriously considering a career in Obstetrics. 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.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8012  UH Gyn Sub-Internship

**Course Director:** Kristina Tocce, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Course Description:** 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.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8013  DHMC OB/GYN Outpatient

**Course Director:** Kathryn Witzeman, MD. **Course Coordinator:** Patricia Lovatto, 303-602-9725.

- **Course Description:** This course allows for career exploration and broadening of knowledge in OB/GYN from an outpatient perspective. Students are expected to participate in all aspects of the outpatient service, including specialty clinics and taking 3 call nights on L&D.

- **Credit Hours:** 4 weeks, Max: 1

### OBGY 8100  OBGY Elective Away

**Course Director:** Lorraine Dugoff, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Prerequisites:** Departmental approval must be obtained and all arrangements must be made one-semester in advance. The student must receive prior approval from the Associate Dean for Student Affairs.

- **Course Description:** This Obstetrics/Gynecology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

- **Credit Hours:** 2 or 4 weeks

### OBGY 8600  Research in OBGY

**Course Director:** Lorraine Dugoff, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Prerequisites:** Departmental approval must be obtained and all arrangements must be made one-semester in advance. The student must receive prior approval from the Associate Dean for Student Affairs.

- **Course Description:** This Obstetrics/Gynecology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

- **Credit Hours:** 2 – 12 weeks

### OBGY 8630  OBGY Research Away

**Course Director:** Lorraine Dugoff, MD. **Course Coordinator:** Rochelle Cassell, 303-724-2031.

- **Prerequisites:** Departmental approval must be obtained and all arrangements must be made one-semester in advance. The student must receive prior approval from the Associate Dean for Student Affairs.

- **Course Description:** This Obstetrics/Gynecology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

- **Credit Hours:** 2, 4, 6, or 8 weeks

### OPHTHALMOLOGY ELECTIVES

### OPHT 8000  Ophthalmology

**Course Director:** Richard Davidson, MD. **Course Coordinator:** Gaylian Howard, 720-848-5029.

- **Course Description:** 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.

- **Credit Hours:** 4 weeks, Max: 1
OPHT 8100  OPHT Elective Away  
Course Director, Richard Davidson, MD.  Course Coordinator, Gaylian Howard, 720-848-5029.  
Prerequisites: Departmental approval required to register.  
This Ophthalmology elective will be held at a site in Colorado, another state, or internationally.  Students must obtain departmental approval one month prior to the start.  Additionally, international sites must be preapproved by Student Affairs.  

OPHT 8600  Research Ophthalmology  
Course Director, Richard Davidson, MD.  Course Coordinator, Gaylian Howard, 720-848-5029.  
Prerequisites: Arrangements must be made one month in advance.  Departmental approval required to register.  
A final written evaluation must be mailed to Course Director who will assign the final grade.  

OPHT 8630  OPHT Research Away  
Course Director, Richard Davidson, MD.  Course Coordinator, Gaylian Howard, 720-848-5029.  
This Ophthalmology research elective will be held at a site in Colorado, another state, or internationally.  Students must obtain departmental approval one month prior to the start.  Additionally, international sites must be preapproved by Student Affairs.  

ORTHECIC ELECTVIES

ORTH 8000  Orthopaedic Surgery  
Course Director, Frank Scott, MD.  Course Coordinator, Shanna Taylor, 303-724-2972.  
Restrictions: Offered summer and fall semesters.  
“This Sub-i course meets the UC SOM requirement for graduation.”  
This course is designed as an elective in Orthopaedic Surgery for students desiring residency training in Orthopaedics 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  
Course Director, Frank Scott, MD.  Course Coordinator, Shanna Taylor, 303-724-2972.  
Restriction: 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  
Course Director, Frank Scott, MD.  Course Coordinator, Shanna Taylor, 303-724-2972.  
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, Shanna Taylor, 303-724-2972.  
This Orthopedic elective will be held at a site in Colorado, another state, or internationally.  Students must obtain departmental approval one month prior to the start.  Additionally, international sites must be preapproved by Student Affairs.  

ORTH 8600  Research in Orthopedics  
Course Director, Frank Scott, MD.  Course Coordinator, Shanna Taylor, 303-724-2972.  
Prerequisites: Approval from Course Director and Associate Dean for Student Affairs required to register.  
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 Orthopaedics faculty to define a project.  

ORTH 8630  ORTH Research Away  
Course Director, Frank Scott, MD, 720-848-0485.  Course Coordinator, Shanna Taylor, 303-724-2972.  
This Orthopedic research elective will be held at a site in Colorado, another state, or internationally.  Students must obtain departmental approval one month prior to the start.  Additionally, international sites must be preapproved by Student Affairs.  

OTOLARYNGOLOGY ELECTIVES

OTOL 8000  Clinical Otolaryngology  
Course Director, Julie Goddard, MD.  Course Coordinator, Darci Dreiling, 303-724-1965.  
Recommended for students 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  
Course Director, Julie Goddard, MD.  Course Coordinator, Darci Dreiling, 303-724-1965.  
This Otolaryngology elective will be held at a site in Colorado, another state, or internationally.  Students must obtain departmental approval one month prior to the start.  Additionally, international sites must be preapproved by Student Affairs.
OTOL 8600 Research Otolaryngology 4 - 12 wks
Course Director, Katie Rennie, PhD. Course Coordinator, Darci Dreiling, 303-724-1965.
Prerequisites: Prior approval from Course Director required to register.
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, 6, or 8 wks
Course Director, Katie Rennie, PhD. Course Coordinator, Darci Dreiling, 303-724-1965.
Prerequisite: Departmental approval must be obtained and all arrangements made one semester in advance. Approval form the Associate Dean for Student Affairs also required.
This Otolaryngology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PATHOLOGY ELECTIVES

PATH 8000 Pathology 4 - 12 wks Max: 2
Course Director, Robert Low, MD. Course Coordinator, Jamie Kean, 303-724-3905.
The Department assigns hospital by interests of the student. Anatomic pathology includes autopsy, surgical pathology, hematopathology and cytology. Clinical pathology includes clinical chemistry, microbiology, coagulation/blood banking and molecular diagnosis. Intended for those interested in clinical medicine, especially a pathology career.

PATH 8001 Laboratory Medicine Fall 4 wks Max: 50
Course Director, Mary Berg, MD, Course Coordinator, Jamie Kean, 303-724-3905.
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.

PATH 8100 PATH Elective Away 2 or 4 wks
Course Director, Robert Low, MD. Course Coordinator, Jamie Kean, 303-724-3905.
Prerequisites: A full written course description from the course director at outside institution is required.
This Pathology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PATH 8600 Research in Pathology 2 - 12 wks
Course Director, Robert Low, MD. Course Coordinator, Jamie Kean, 303-724-3905.
Prerequisites: Department approval must be obtained and all arrangements made at least one month in advance. The student must also receive approval from the Associate Dean for Student Affairs.

PATH 8630 PATH Research Away 2, 4, 6, or 8 wks
Course Director, Robert Low, MD. Course Coordinator, Jamie Kean, 303-724-3905.
This Pathology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PEDIATRIC ELECTIVES

PEDES 8000 Pediatric Subinternship 4 wks Max: 4
Course Director, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
“Sub-I course meets the UC SOM requirement for graduation.”
Designed for those students who are interested in further training in pediatrics. Students will function as an intern and are responsible for the admission, evaluation, and continuing care of patients. Sub-internships are offered at Children’s Hospital and Denver Health.

PEDES 8004 Pediatric Cardiology 4 wks Max: 1
Course Directors, Michael Schaffer, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
Evaluation of children with heart disease by history, physical examination, ECG, x-ray., echocardiography, and cardiac catheterization will be stressed. The student will make rounds with the cardiology team, see consults, attend outpatient clinics, and participate in cardiac catheterizations and conferences.
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<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>Peds 8006</td>
<td><strong>Immunology and Allergy</strong></td>
<td>4 wks</td>
<td>2</td>
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<td>Course Directors, Dan Atkins, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>Students participate in the care of outpatients at National Jewish, attend lectures, rounds and conferences. Patient responsibility delegated by attending commensurate with the student’s interest and ability. Opportunities provided to observe laboratory procedures in immunology and pulmonary physiology laboratories.</td>
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<td>Peds 8007</td>
<td><strong>Child Abuse and Neglect</strong></td>
<td>4 wks</td>
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<td>Course Directors, Andrew Sirotnak, MD Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>Restrictions: not available section 21-24.</td>
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<td>Students learn about basic principles of child abuse and neglect. The 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.</td>
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<td>Peds 8008</td>
<td><strong>Birth Defects/ Genetics</strong></td>
<td>4 wks</td>
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<td>Course Directors, Anne Tsai, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>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.</td>
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<td>Peds 8009</td>
<td><strong>Peds Infectious Disease</strong></td>
<td>4 wks</td>
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<td>Course Directors, Mary Glode, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>This course provides experience in the pathophysiology, diagnosis, and therapy of childhood infections. Students evaluate in-patients and present cases at daily teaching rounds. Experience in the diagnostic Microbiology laboratory is provided. There is a weekly HIV/infectious diseases clinic.</td>
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<td>Peds 8011</td>
<td><strong>Peds Pulmonary Disease</strong></td>
<td>4 wks</td>
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<td>Course Directors, Monica Federico, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>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.</td>
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<tr>
<td>Peds 8012</td>
<td><strong>Pediatric Neurology</strong></td>
<td>4 wks</td>
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<td></td>
<td>Course Directors, Julie Parsons, MD and Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>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.</td>
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<tr>
<td>Peds 8013</td>
<td><strong>Pediatric Endocrinology</strong></td>
<td>4 wks</td>
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<td>Course Directors, Michael Kappy, MD Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>A large variety of patients with abnormalities of growth and pubertal development, thyroid disorders, and diabetes mellitus are reviewed and treated each week. Seminars on selected topics are scheduled three times per week.</td>
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<tr>
<td>Peds 8015</td>
<td><strong>Peds Neonatology Sub I</strong></td>
<td>4 wks</td>
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<td>Course Director, Elizabeth Thilo, MD Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>“This Sub-I course meets the UC SOM requirement for graduation.”</td>
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<td>Student assigned to UCH, DHMC, or TCH and will participate actively 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.</td>
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<tr>
<td>Peds 8017</td>
<td><strong>Ped Emergency Med DHMC</strong></td>
<td>4 wks</td>
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<td>Course Directors, Jody Maes, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>A challenging and well-rounded clinical experience in an urban emergency department, focusing on care of children. Students will learn how to care for sick and injured children. Spanish language skills are a plus. Some evening and weekend shifts are required.</td>
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<tr>
<td>Peds 8018</td>
<td><strong>General Academic Peds</strong></td>
<td>4 wks</td>
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<td>Course Directors, David Fox, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td></td>
<td>This course offers exciting experience in ambulatory pediatrics at The Children’s Hospital. There are 9 educational conferences per week. No night call.</td>
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<tr>
<td>Peds 8020</td>
<td><strong>Adolescent Medicine</strong></td>
<td>4 wks</td>
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<td>Course Directors, Paritosh Kaul, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>Restrictions: This course is not offered in the summer while school-based clinics are out of session.</td>
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<td></td>
<td>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. Students will prepare and present a seminar/case discussion on this topic.</td>
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<tr>
<td>Peds 8022</td>
<td><strong>Peds Gastroenterology</strong></td>
<td>4 wks</td>
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<td>Course Directors, Edward Hoffenberg, MD. Course Coordinator, Michael Baca, 720-777-4804.</td>
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<td>Restrictions: not available section 9.</td>
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<td></td>
<td>Clinical rotation on pediatric gastroenterology inpatient and outpatient services and procedure unit and scheduled conferences. This rotation is designed for students with a specific interest in pediatrics and/or gastroenterology.</td>
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</table>
PEDS 8024 Child Development/Behavior
Course Directors, Ann Reynolds, MD. Course Coordinator, Michael Baca, 720-777-4804.
Medications must be preapproved by Student Affairs.

PEDS 8025 Peds Emergency Medicine
Course Directors, Tien Vu, MD. Course Coordinator, Michael Baca, 720-777-4804.
Students gain experience in assessment/management of common conditions in a pediatric 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
Course Directors, Gary Lum, MD. Course Coordinator, Michael Baca, 720-777-4804.
Common problems such as hematuria, proteinuria, electrolyte disturbances, chronic renal insufficiency, hypertension, hemodialysis, peritoneal dialysis, and renal transplantation are addressed.

PEDS 8027 Pediatric Intensive Care
Course Directors, Emily Dobyns, MD. 303-724-2387 Course Coordinator, Michael Baca, 720-777-4804.
Pre-requisite: IDPT 7020 Infant/Adolescent Care. “This Sub-I course meets the UC SOM requirement for graduation.”
The sub-intern is responsible for evaluation and continuing care of patients under the supervision of a Fellow and Attending. The student will learn basic pathophysiology of critical illness and enhance skills in reporting and interpreting clinical date, and patient management.

PEDS 8029 Breastfeeding Management
Course Directors, Nancy Krebs, MD Laura Primak, and Maya Bunik, MD, 720-777-3890.
Students develop extensive knowledge in ambulatory general pediatrics with an emphasis on vaccine preventable diseases. Experience includes didactics on vaccination, vaccine screening, advocacy, and report writing. Exposure to laboratory vaccine research supported but requires availability.

PEDS 8030 Vaccination in Pediatrics
Course Director, Robert Brayden, MD. Course Coordinator, Barbara Stucky, 720-777-6562.
Prerequisite: MS III Pediatric Rotation.

PEDS 8031 Pediatric Hem/Onc
Course Director, Timothy Garrington, MD. Course Coordinator, Michael Baca, 720-777-4804.

PEDS 8100 Peds Elective Away
Course Director, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
Restriction: Sections 49-50 not available.

PEDS 8600 Research in Pediatrics
Course Director, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
Restrictions: Sections 49-50 not available.

PEDS 8630 Peds Research Away
Course Director, Jennifer Soep, MD. Course Coordinator, Michael Baca, 720-777-4804.
Restriction: Sections 49-50 not available.

This Pediatric research elective will be held at a site in colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.
PHYSICAL MEDICINE AND REHABILITATION ELECTIVES

PHMD 8000  Physical Med & Rehab  4 wks
Course Director, Matthew Godleski, MD. Course Coordinator, Sarah E. Manning, 303-724-1263.
This elective provides experience in the diagnosis and treatment of patients with pathology of the neurologic and musculoskeletal systems. 4 different locations (VA, Denver Health, University Hospital, The Children’s Hospital) allow treatment of a variety of conditions related to rehabilitation.

PHMD 8100  PHMD Elective Away  2 or 4 wks
Course Director, Matthew Godleski, MD. Course Coordinator, Sarah E. Manning, 303-724-1263.
Prerequisite: PHMD 8000.
This Physical Medicine And Rehabilitation elective will be held at a site in Colorado, another state, or internationally.
Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PHMD 8600  Research Physical Med  2 - 12 wks
Course Director, Matthew Godleski, MD. Course Coordinator, Sarah E. Manning, 303-724-1263.
Prerequisite: PHMD 8000. Obtain departmental approval and all arrangements made at least one month in advance and prior approval from Associate Dean for Student Affairs.
Written evaluation must be sent by individual instructor, with course director responsible for final grade.

PHMD 8630  PHMD Research Away  2, 4, 6, or 8 wks
Course Director, Matthew Godleski, MD, 720-848-7924. Course Coordinator, Sarah E. Manning, 303-724-1263.
Prerequisite: PHMD 8000.
This Physical Medicine And Rehabilitation research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PREVENTIVE MEDICINE ELECTIVES

PRMD 8003 Specialty Preventive Med  4 - 8 wks  Max: 4
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  2 - 8 wks
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  2 or 4 wks
Course Director, Tim Byers, MD, MPH, 303-724-1283.
Restrictions: Not available sections 49-50.
This Preventive Medicine elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PRMD 8600  Research Preventive Med  4 - 12 wks
Course Director, Tim Byers, MD, MPH, 303-724-1283.
Prerequisites: Course Director and Associate Dean of Student Affairs approval required to add course.
Designed for students interested in preventive medicine research. Tailored research experiences in the Denver area can be established in a variety of settings. Speak with the course director to design this elective.

PRMD 8630  PRMD Research Away  2, 4, 6, or 8 wks
Course Director, Tim Byers, MD, M.P.H., 303-724-1283.
This Preventive Medicine research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.
**PSYCHIATRY ELECTIVES**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>PSYM 8000</td>
<td>Sub I in Psychiatry</td>
<td>4-6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401. Three weeks before beginning, contact Jennifer White, at 303-724-7401.</td>
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<td><strong>“This Sub-I course DOES NOT meet UC SOM graduation requirements.”</strong></td>
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<td>Restrictions: This is a rigorous and challenging rotation which will help prepare students for management of ill psychiatric patients no matter their career choice. We feel that students considering psychiatry as a career should take a required sub-internship in medicine, family medicine, pediatrics or surgery. Therefore, this sub-internship does not fulfill the medical school’s “required” requirement. Sub-interns take responsibility as primary provider for seriously ill patients, work closely with treatment team directed by an attending psychiatrist. Sub-interns assume responsibilities for care of patients that interns typically assume performing H&amp;Ps, writing orders, giving “bad news” when appropriate.</td>
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<td>PSYM 8001</td>
<td>“Big Six” Substance Prob</td>
<td>2-4 wks</td>
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<td>Course Director, Joseph Sakai, MD. Course Coordinator, Elisa Upwood, MS ext. 303-724-3183.</td>
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<td>Prerequisites: Course Director approval required to add course.</td>
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<td>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.</td>
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<td>PSYM 8002</td>
<td>Neuropsychiatry Elective</td>
<td>4 wks</td>
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<td>Course Director, David Arciniegas, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisites: PSYM 8000.</td>
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<td>Behavioral Neurology &amp; Neuropsychiatry Elective. The goal is to provide the student with exposure to physicians practicing as subspecialists in BN&amp;NP, the clinical populations they serve, and a variety of clinical settings in which they practice.</td>
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<td>PSYM 8003</td>
<td>Elective in Psychiatry</td>
<td>2-8 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite: Contact coordinator to confirm availability.</td>
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<td>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.</td>
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<td>PSYM 8004</td>
<td>Clin PSYM Child&amp;Adlcnt</td>
<td>4 or 6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite:</td>
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<td></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>
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<td>PSYM 8005</td>
<td>Clinical PSYM Geriatric</td>
<td>4 or 6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite: Contact coordinator to confirm availability.</td>
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<td>Evaluate and help manage geriatric patients with psychiatric illness. Students will serve as part of the inpatient geropsychiatric team and will be responsible for 2-3 inpatients under the supervision of attendings, residents and fellows.</td>
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<td>PSYM 8006</td>
<td>Clinical PSYM C/L</td>
<td>4 or 6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite: Contact coordinator to confirm availability.</td>
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<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>
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<td>PSYM 8007</td>
<td>Clinical PSYM Emer Srvs</td>
<td>4 or 6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite: Contact coordinator to confirm availability.</td>
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<td>Learn elements of crisis intervention, and to make psychiatric diagnoses and evaluate lethality. Student will evaluate and help treat a broad range of psychiatric difficulties and encounter the psychiatric and psychosocial problems they will see in their practices.</td>
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<td>PSYM 8008</td>
<td>Clinical PSYM Forensic</td>
<td>4 or 6 wks</td>
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<td>Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>Prerequisite: Contact coordinator to confirm availability.</td>
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<td>Introduction to the interface of criminal law and psychiatry. Students will involve 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>
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PSYM 8009  **Clinical PSYM Addiction**  
4 or 6 wks  
Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.  
Prerequisite: Contact coordinator to confirm availability.  
Learn the essentials of identification, assessment, and treatment of patients with substance use disorders. Emphasis on screening and brief intervention techniques. Learn principles of detoxification for alcohol, opioids, cocaine, interpretation of drug testing results, proper prescribing practices.

PSYM 8010  **Clin PSYM Eating Disorders**  
4 or 6 wks  
Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.  
Prerequisite: Contact coordinator to confirm availability.  
Evaluate and manage patients with eating disorders under the direction of fellows and attendings. Student will gain specific knowledge of classification, epidemiology, etiology, physiology, and treatment of eating disorders.

PSYM 8100  **PSYM Elective Away**  
2 or 4 wks  
Course Director, Robert Davies, MD. Course Coordinator, Jennifer White, 303-724-7401.  
This Psychiatry elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

PSYM 8600  **Research in Psychiatry**  
2 - 12 wks  
Course Directors, Michael Weissberg, MD and Sharon Hunter, PhD. Course Coordinator, Jennifer White, 303-724-7401.  
Prerequisites: The student must receive prior approval from the course director and the Associate Dean for Student Affairs to add course.  
Research electives in various areas of Psychiatry. Contact Randy Ross, MD or Sharon Hunter, PhD for menu of research options.

PSYM 8630  **PSYM Research Away**  
2, 4, 6, or 8 wks  
Course Directors, Michael Weissberg, MD and Sharon Hunter, PhD. Course Coordinator, Jennifer White, 303-724-7401.  
Prerequisite: For 2011-2012, students in the Psychiatry Scholars Program may be eligible for honors in this elective. All non-Psychiatry Scholars Program students will be graded as Pass/Fail.  
This Psychiatry research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

### RADIOLOGY ELECTIVES

**RADI 8000  **Diagnostic Radiology**  
4 wks  Max: 5  
Course Director, James Davidson, Jr, MD. Course Coordinator, Tina Kutsuma, 303-724-1980.  
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**  
4 wks  Max: 2  
Nuclear Medicine encompasses the various uses of radioactive compounds in medical diagnosis and therapy. Students participate in the supervision and interpretation of nuclear medicine procedures under the guidance of the staff/residents at the AOP. Students will attend daily conferences.

**RADI 8007  **Interventional Radiology**  
2 or 4 wks  Max: 1  
Restrictions: 2 week course offered Jan–April only. Course not offered during sections 45-48 for the 2011-2012 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**  
2 or 4 wks  
Prerequisites: The student must receive approval from the Associate Dean for Student Affairs and the Course Director one month in advance. For rotation approval, students must first provide name, address, and phone number of preceptor to the course director. Students maintain sole responsibility for obtaining written evaluation.  
Restrictions: Not available sections 49-50.  
This Radiology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.
RADI 8600  **Research in Radiology**  2 - 12 wks
Prerequisites: The name, address, and phone number of the preceptor must be given to the course director for final approval. Approval from the Associate Dean of Student Affairs required. Student must submit a research project description and the name of their preceptor to the course director prior to the start of the elective. Students are responsible for obtaining written evaluation. 2 week rotation not Honors eligible.

RADI 8630  **RADI Research Away**  2, 4, 6, or 8 wks
Course Director, Kimi Kondo, DO, 720-848-6568. Course Coordinator, Tina Kutsuma, 303-724-1980. This Radiology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

**RADIATION ONCOLOGY ELECTIVES**

RAON 8005  **Radiation Oncology**  4 - 8 wks  Max: 2
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 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**  2 or 4 wks
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.
This Radiation Oncology elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

RAON 8600  **Research RAD Oncology**  4 - 12 wks
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.
Prerequisite: RAON 8005. Departmental and Associate Dean of Student Affairs approval must be obtained and all arrangements made one semester in advance.
This elective is designed to acquaint the student with current research developments, knowledge and techniques in radiation oncology.

RAON 8630  **RAON Research Away**  2, 4, 6, or 8 wks
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.
This Radiation Oncology research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. Additionally, international sites must be preapproved by Student Affairs.

**SURGERY ELECTIVES**

SURG 8000  **Gen Surg Sub I Univ Hosp**  4 - 12 wks  Max: 4
Course Director, Thomas A. Whitehill, MD. Course Coordinator, Janice Frary, 303-724-2681.
*“This Sub-I course meets the UC SOM requirement for graduation.”*
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 or 6 wks  Max: 3
Course Director, Carlton Barnett, MD Course Coordinator, Ron Fresquez, 303-436-6575.
*“This Sub-I course meets the UC SOM requirement for graduation.”*
Acute Care Surgery Team at a Level I Trauma Center. Course emphasizes pre- and postoperative evaluation, O.R. decisions making and clinical research. Student will attend clinics, rounds, conferences and surgical procedures. A Faculty Mentor is for the research component.

SURG 8002  **Gen Surg Sub I St Joseph**  4 wks  Max: 2
Course Directors, John T. Moore, MD and Ed Kimm, MD. Course Coordinator, Laurie Cooper, 303-837-7295.
Restrictions: Not available sections 5 and 9.
*“This Sub-I course meets the UC SOM requirement for graduation.”*

SURG 8008  **Cardiothoracic Surg Sub**  4 wks  Max: 2
Course Director, David Fullerton, MD Course Coordinator, Karen Muth, 303-724-2798.
*“This Sub-I course meets the UC SOM requirement for graduation.”*
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
Course Director, Gordon K. Lindberg, M.D., PhD. Course Coordinator, Robin Miller, 303-724-2727.

**This Sub-I course DOES NOT meet the UC SOM requirement for graduation.**

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.

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<th>Course</th>
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<tr>
<td>SURG 8010</td>
<td>4 wks</td>
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### SURG 8011  Hand Surgery
Course Director, Mickey Gordon, MD. Course Coordinator, Danaa Smith-Lee, 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.

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<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8011</td>
<td>4 wks</td>
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</table>

### SURG 8012  Urology Subinternship
Course Director, Jane Petersen, MD. Course Coordinator, Kathy Politis, 303-724-2712.

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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<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8012</td>
<td>4 wks</td>
<td>4</td>
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</table>

### SURG 8015  Pediatric Surgery
Course Directors, Frederick Karrer, MD and Moritz M. Ziegler, MD. Course Coordinator, Sandra Floyd, 720-777-5506 at TCH.

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.

<table>
<thead>
<tr>
<th>Course</th>
<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8015</td>
<td>2, 4, or 6 wks</td>
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</table>

### SURG 8019  Plastic Surgery
Course Director, Mickey Gordon, MD. Course Coordinator, Danaa Smith-Lee, 303-724-2792.

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.

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<tr>
<td>SURG 8019</td>
<td>4 wks</td>
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### SURG 8020  Vascular Surg Research
Course Director, Mark Nehler, MD, 303-724-2698. Course Coordinator, Janice Frary, 303-724-2681.

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.

<table>
<thead>
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<th>Duration</th>
<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8020</td>
<td>4 - 12 wks</td>
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### SURG 8021  Surgical Critical Care
Course Director, Carlton Barnett, MD., 303-436-5402. Course Coordinator, Ron Fresquez, 303-436-6575.

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

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.

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<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8021</td>
<td>4, 6 or 8 wks</td>
<td>2</td>
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</table>

### SURG 8030  Clinical Transplantation
Course Director, Michael Wachs, MD. Course Coordinator, Jody Mandic, 720-848-0852.

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.

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<th>Max.</th>
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<tbody>
<tr>
<td>SURG 8030</td>
<td>2 or 4 wks</td>
<td>3</td>
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</table>

### SURG 8100  SURG Elective Away
Course Director, Thomas A. Whitehill, MD. Course Coordinator, Janice Frary, 303-724-2681.

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

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<td>SURG 8100</td>
<td>2 or 4 wks</td>
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### SURG 8600  Research in Surgery
Course Director, Thomas A. Whitehill, MD. Course Coordinator, Janice Frary, 303-724-2681.

Prerequisite: The student must receive prior approval from the Associate Dean for Student Affairs and course director to add course.

Students must obtain departmental approval one month prior to the start. Additionally, internationally sites must be preapproved by Student Affairs. Contact department for further course information.

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<td>SURG 8600</td>
<td>2 - 12 wks</td>
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### SURG 8630  SURG Research Away
Course Director, Thomas A. Whitehill, MD. Course Coordinator, Janice Frary, 303-724-2681.

Restrictions: Sections 49-50 not available.

Prerequisites: Departmental approval must be obtained and all arrangements made one semester in advance.

This Surgery research elective will be held at a site in Colorado, another state, or internationally. Students must obtain departmental approval. Additionally, international sites must be preapproved by Student Affairs.