## PHASE I – REQUIRED CURRICULUM FALL SEMESTER 2009

**IDPT 5000  Foundations Doctoring I**  
Course Director, Wendy Madigosky, M.D. Course Coordinator, Tina Roquemore, 303-724-6421.  
2.0 cr.  
The course is designed to expose students to basic clinical skills necessary for physicians. Each week, students spend one afternoon learning communication/physical exam skills/professionalism on campus or practicing their clinical skills with a preceptor off campus.

**IDPT 5001 Human Body**  
Co-Course Directors, Michael Carry, Ph.D., 303-724-2411 and Michael Kelly, M.D., 303-724-2066.  
7.0 cr.  
Human Body covers the anatomy and embryology of the back, extremities, trunk, head and neck. Students will dissect cadavers and study computer generated cross-sections, reconstructions and radiological images. Case discussions are integrated with clinically related anatomy and physical exam content.

**IDPT 5002 Molecules to Medicine**  
Course Director, Robert Low, M.D., Ph.D., 303-724-4307 and Matthew Taylor, M.D., Ph.D., 303-724-1400.  
8.0 cr.  
Molecules to medicine is an integrated approach to cell biology, biochemistry, molecular biology and human genetics presented in a context that emphasizes clinical issues.

**IDPT 5015 Basic Card Life Support**  
Course Director, Todd Larabee, M.D., 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.  
0.5 cr.  
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, Richard L. Byyny, M.D. Course Coordinator, Stephanie Vetter, 303-724-7731.  
1.0 cr.  
A four year requirement for students to pursue and complete a mentored scholarly project and a capstone presentation. The 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 2010

**IDPT 5000  Foundations Doctoring I**  
Course is a continuation of the fall semester course.  
2.0 cr./sem.

**IDPT 5003 Blood and Lymph**  
Co-Course Directors, Tim Garrington, M.D., 720-777-8365 and Jill Slansky, Ph.D., 303-398-1887.  
4.0 cr.  
Blood and Lymph covers the basic and clinical concepts underlying immunology, hematology, rheumatology, and malignancies of the blood. Histology, genetics, biochemistry, and ethical issues are integrated into the course concepts. Contact hours are divided equally between lecture and discussion groups.

**IDPT 5004 Disease and Defense**  
Co-Course Directors, Ronald E. Gill, Ph.D., 303-724-4230 and Marsha Anderson, M.D., 720-777-6877.  
5.0 cr.  
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/Pulm/Renal**  
Co-Course Directors, Rock Levinson, Ph.D., 303-724-1544 and Lawrence Horwitz, M.D. 303-724-2089.  
9.5 cr.  
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**  
Course Director, Richard L. Byyny, M.D. Course Coordinator, Stephanie Vetter, 303-724-7731.  
1.0 cr.  
A continuation of course begun in fall semester.

**PRMD 5000 Ethics Hlth Profession I**  
Course Director, Jackie Glover, Ph.D., 303-724-3992.  
1.0 cr.  
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.
IDPT 6000  Foundations Doctoring II  2.0 cr./sem.  
Course Director, Wendy Madigosky, M.D. 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 6000  Nervous System  7.5 cr.  
Co-Course Directors, Tom French, Ph.D., 303-724-3387 and Steven Ojemann, M.D., 303-724-2285.
Course covers the gross and microscopic anatomy of the nervous system, basic neuroscience 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.  
Co-Course Directors, Robin Michaels, Ph.D., 303-724-3402, Virginia Sarapura, M.D., 303-724-3931 and Daniel Bessesen, M.D., 303-436-5910.
This interdisciplinary course integrates clinical and basic science topics related to the normal function and diseases of the gastrointestinal and endocrine systems. The biochemistry and physiology of nutrient metabolism in health and disease will also be covered.

IDPT 6003  Life Cycle  5.0 cr.  
Co-Course Directors, Andy Bradford, PhD, 303-724-3507 and Sonya Erickson, M.D., 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, Ph.D., 303-724-4215 and Edward Janoff, M.D., 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 6015  BCLS Update  0.5 cr.  
Course Director, Todd Larabee, M.D., 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.
A re-certification. Principles of BCLS will be taught along AHA guidelines utilizing lecture, video, demonstrations on mannequins, and practice sessions. Students will read required text prior to course, pass a written examination, and demonstrate performance skills essential to BCLS.

IDPT 6090  Mentored Scholarship  1.0 cr.  
Course Director, Richard L. Byyny, M.D. 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
#### 2009-2010

**DERMATOLOGY ELECTIVE**

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

Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.

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

**FAMILY MEDICINE ELECTIVES**

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<th>Course Code</th>
<th>Course Title</th>
<th>Terms</th>
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<tbody>
<tr>
<td>FMMD 6410</td>
<td>Foreign Lang Immersion</td>
<td>Summer sem.</td>
<td>4.0 cr</td>
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Co-Directors: David Gaspar, MD, Michelle Doucette, PhD. Course coordinator Katie Watts, 303-724-9700.

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.

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<tr>
<td>FMMD 6622</td>
<td>Intro FMMD Research</td>
<td>Summer sem.</td>
<td>Var. cr</td>
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Course Director, David Gaspar, M.D., 303-724-0974. Course Coordinator, Katie Watts, 303-724-9700.

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.

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<th>Course Code</th>
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<tr>
<td>FMMD 6624</td>
<td>Hlthcare Poor/Homeless</td>
<td>Fall and Spring sem.</td>
<td>1.0 cr</td>
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Course Director, Allegra Melillo, M.D. Course Coordinator, Katie Watts, 303-724-9700.

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.

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<tr>
<td>FMMD 6628</td>
<td>Rural Track Elective</td>
<td>Fall and Spring sems.</td>
<td>1.0 cr</td>
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Course Director, Mark Deutchman, M.D. Course Coordinator, Mary Jo Bush, 303-724-9753.

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.

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<tr>
<td>FMMD 6629</td>
<td>SABES Spanish Immersion</td>
<td>Fall and Spring sems.</td>
<td>1.0 cr</td>
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Course Director, Mark Deutchman, M.D.

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 and understanding appropriate responses.

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<tr>
<td>FMMD 6630</td>
<td>Summer Rural Track</td>
<td>Summer Sem</td>
<td>8.0 cr</td>
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Course Director, Mark Deutchman, M.D., 303-724-9753. Course Coordinator, Mary Jo Bush, 303-724-9753.

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**

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<tr>
<td>IDPT 6627</td>
<td>Directed Study Basic Sci</td>
<td>All sems.</td>
<td>Var. cr</td>
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Co-Course Directors, 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 basic sciences. Course director approval required.
IDPT 6628 Nutrition and Cancer

Spring sem. 1.0 cr.
Max: 30/Min: 8

Course Director, Richard F. Bakemeier, M.D., 303-724-3158; Course Coordinator, Connie Bair, 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

Fall and Spring sem. 1.0 cr. per term
Max: 15

Course Director, Loraine Dugoff, M.D., 303-724-2044; Course Coordinator, Bethany Andrews, 303-724-2031.

Course requirements: Students enrolled for fall semester will automatically be enrolled for spring semester.

A two-semester course. Students observe the continuity of care for a pregnant woman and get exposure to those issues surrounding pregnancy.

IDPT 6636 Summer Preceptor Exp

Summer sem. 1.0 cr.

Restrictions: Available summer semester only.

Course Director, Wendy Madigosky, M.D. Course Coordinator, Tina Roquemore, 303-724-6421

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

IDPT 6637 LEADS 1

Spring sem. 2.0 cr.

Course Director, Jeremy Long, M.D., 303-641-1951; Co-course Directors, Mark Earnest, M.D., and Cathy Battaglia, Ph.D., M.S.H.A., R.N. Course Coordinator, Karen Mellis, 303-724-2259.

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 6638 Health Care—Public Policy

Fall and Spr sem. 1.0 cr.

Course Director, Gary VanderArk, M.D., 303-724-2287; Course Coordinator, Lauren Buckles, 303-724-2302.

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

Fall sem. 1.0 cr.

Prerequisite: Course Director Approval required to add course.

The first in a series, this elective will introduce participants to Women’s Health as a field of study and clinical care. Assigned reading will frame discussions devoted to gender-based public health issues, women as research subjects, gender and communication.

IDPT 6643 Women’s Primary Care

Fall and Spring sem. 1.0 cr.
Min: 5/Max: 8

Restrictions: Must be phase II student. Permission of instructor.

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 6644 Women’s Health Seminars

Fall sem. 1.0 cr.
Min: 5/Max: 8

Restrictions: Must be Phase II student. Course Director approval.

Students will discuss clinical issues in Women’s Health.

IDPT 6647 LEADS 2

Fall sem. 1.0 cr.
Min: 10/Max: 20

Course Director, Steve Federico, M.D. Course Coordinator, Holly Hamilton, 303-724-2258.

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.

IDPT 6667 Global Health Studies (US)

Summer sem. 10.0 crs

Course Directors, Gretchen Heinrichs, M.D., and Renee King, MD. Course Coordinator, Cathy Maciel, 720-848-6767.

Course Restrictions: Must be enrolled in the Global Health Track.

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  
Course Directors, Gretchen Heinrichs, M.D. and Renee King, MD. Course Coordinator, Cathy Maciel, 720-848-6767.
Course Restrictions: Must be enrolled in the Global Health Track.
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  
Course Director, Gretchen Heinrichs, M.D. Renee King, MD. Course Coordinator, Cathy Maciel, 303-848-6767.
Course Restrictions: Course director approval required to add course.
This course, integral to the global health track, will help students design and implement their global health project.
Sessions will address ethics of the international work, basics of project design and review board approval, and travel health and safety practicalities.

MED 6621  Geriatric Medicine  
Course Director, Susan Bray-Hall, M.D., 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 6623  Intro Biomedical Research  
Course Director, John Repine, M.D., 303-315-8262.
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  
Course Director, John Tentler, Ph.D., 303-724-3887. Course Coordinator, Evelyn 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  
Course Director, Henry Claman, M.D., 303-724-7188. Course Coordinator, Rachel Zandlo, 303-724-7193.
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  
Course Director, Lisa Corbin, M.D., 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  
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 6630  Clinica Tepeyac  
Course Director, Richard H. Miranda, M.D., 303-839-6253.
Clinica Tepeyac is a community clinic located in North Denver serving the health care needs of a largely immigrant, monolingual Spanish-speaking population. Participating students will provide basic health-care services, and promote health awareness under the guidance of University faculty.
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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>MED 6631</td>
<td>Med Student Journal Club</td>
<td>Spring</td>
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<td>Co-Course Directors, Lisa Shilling,</td>
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<td>Jamaluddin Moloo, MD, MPH</td>
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<td>ORTH 6620</td>
<td>Intro to Orthopedics</td>
<td>Spring</td>
<td>1.0</td>
<td>Max: 30/Min: 10</td>
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<td>Course Director, Jennifer Wolf, M.D., 303-724-2968.</td>
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<td>Course Coordinator, Mariama Sannoh, 303-724-2972.</td>
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<td>breadth of orthopaedic surgery.</td>
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<td>oncology, reconstructive surgery,</td>
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<td>trauma, sports medicine, spine</td>
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<td>and primary care orthopaedics.</td>
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<td>OTOL 6660</td>
<td>Career Elective in OTOL</td>
<td>All terms</td>
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<td>Course Director, Patricia Yoon, MD, 720-777-4779.</td>
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<td>Course Coordinator, Alicia Gore, 303-724-1965.</td>
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<td>The Career Elective in Otolaryngology – Head &amp; 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.</td>
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<td>PED 6622</td>
<td>Diabetes Mellitus</td>
<td>Summer</td>
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<td>Course Director, Paul Wadwa, M.D., 303-724-6719.</td>
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<td>The students will spend 1 week at</td>
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<td>diabetes camp where they will learn</td>
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<td>about diabetes and children.</td>
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<td>Before and after camp, time will be</td>
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<td>spent at the Barbara Davis Center</td>
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<td>clinic. Clinical research projects</td>
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<td>may be developed if interested.</td>
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<td>PED 6623</td>
<td>Warren Village Clinic</td>
<td>All sems.</td>
<td>1.0</td>
<td>Max: 20/Min: 8</td>
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<td>Course Director, Stephanie Stevens, M.D.</td>
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<td>PSCH 6620</td>
<td>PSCH in Great Literature</td>
<td>Fall and Spr sems.</td>
<td>2.0</td>
<td>Max: 15/Min: 4</td>
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<td>Course Director, Robert Davies, M.D., 303-724-2229.</td>
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<td>Course Coordinator, Jennifer White, 303-724-7401.</td>
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<td>PSCH 6626</td>
<td>Intro to Emergency Psch</td>
<td>Spring</td>
<td>1.0</td>
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<td>Course Director, Michael Weissberg, M.D.</td>
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<td>PSCH 6629</td>
<td>Medical Hypnosis</td>
<td>Spring</td>
<td>1.0</td>
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<td>Course Director, Steve Allen, M.D., 303-741-0239.</td>
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<td>Medical hypnosis has a wide</td>
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**PSCH 6632 Denver CARES Elective**

Fall and Spring sems. 1.0 crs

Course Director, Robert House, M.D. Course Coordinator, Jennifer White, 303-724-7401.

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

**PSCH 6633 SUD in Medical Practice**

Fall and Spring sems. 1.0 crs

Course Director, Joseph Sakai, MD, 303-724-3182. Course Coordinator, Jennifer White, 303-724-7401.

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

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**SURGERY ELECTIVES**

**SURG 6624 Intro Wilderness Med**

Fall sem. 1.0 cr, Max: 45/Min: 10

Course Director, Kelly Bookman, MD and Barbara Blok 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.

Course consists of a lecture series and one four hour weekend outdoor exercise. An emphasis on basic science topics with pathophysiology of wilderness medicine problems. Students participate in skill stations and perform various field medicine and evacuation procedures.

**SURG 6625 Global Health: Issues**

Fall sem. 1.0 cr, Max: 50/Min: 10

Course Director, Renee King, M.D., 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.

This course, required for Global Health Track students, gives a broad overview of important issues in global health, e.g., the HIV epidemic, maternal-child health, humanitarian assistance, clean water and sanitation. Pass/fail based on attendance and final project (1-pager).

**SURG 6626 Pre-Hospital Medicine**

Fall and Spring sems. 1.0 cr, Max: 20/Min: 10

Course Director, Christopher B. Colwell, M.D. Course Coordinator, Linda Anderson, 303-436-6029.

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.

**SURG 6627 Intro Emer Med & Trauma**

Spring sem. 1.0 cr, Max: 50/Min: 10

Course Directors Jeffrey Druck, M.D. and Maria Moreira, M.D. Course Coordinators, Marybeth Hutchins, 720-848-6768 and Linda Anderson, 303-436-6029.

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.

**SURG 6628 Flight Medicine**

Fall, Spring sems. 1.0 cr.

Course Director, Christopher B. Colwell, M.D., 303-436-6966.

Pre-requisite: SURG 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.

**SURG 6660 Career Elective In UROL**

1.0 crs

Course Director, Robert E. Donohue, M.D. Course Coordinator, Kathy Politis, 303-724-2712.

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

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**PHASE 3 REQUIRED CLINICAL CLERKSHIPS FOR 2009-10**

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

**IDPT 7000 Foundations Doctering**

All terms var.cr.

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**  Spring sem.  **2.0 crs**
Course Director, Lisa Schilling, M.D., MSPH. Course Coordinator, Christy Linsenmaier, 303-724-7732.
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**  Summer sem.  **2.0 crs**
Course Director, Lisa Schilling, M.D., MSPH. Course Coordinator, Christy Linsenmaier, 303-724-7732.
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**  Fall sem.  **4.0 crs**
Course Director, Lisa Schilling, M.D., MSPH. Course Coordinator, Christy Linsenmaier, 303-724-7732.
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 7004  **Integrated Clinicians 4**  Spring sem.  **4.0 crs**
Course Directors, Lisa Schilling, M.D., MSPH. Course Coordinator, Christy Linsenmaier, 303-724-7732.
Course offered spring semester end of Phase III clerkship. Through didactic and small group sessions, students will learn advanced clinical skills, translational basic science, and thread material that is vital to doctoring, but underrepresented in clinical blocks, and also learn critical skills for successful sub-internship and critical care experiences.

IDPT 7010  **Hospitalized Adult Care**  All terms  **16.0 crs**
Co-Course Directors, Eva Aagaard, M.D. and Adam Trosterman, M.D. Course Coordinator, Susan Claxon, 303-724-1790.
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**  All terms  **12.0 crs**
Course Director, Jennifer Soep, MD, MD and Adam Trosterman, M.D. 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**  All terms  **4.0 crs**
Course Director, William Sullivan, M.D. Co-Course Director, Jennifer Wolf, M.D. Course Coordinator, Mariama Sannoh, 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**  All terms  **12.0 crs**
Course Director, Lorraine Dugoff, M.D. Course Coordinator, Bethany Andrews, 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**  All terms  **4.0 crs**
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, Christopher M. Filley, 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 Brenda Bucklin, M.D. Co-Course Coordinator, Janice Frary, 303-724-2681 and Suzanne Bullard, 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
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.

Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-9700.

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 7090 Mentored Scholarship
Course Director, Richard L. Byyny, M.D. 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
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 2009-10

Prerequisite for all Phase 4 electives: Completion of Phase 3

ANESTHESIOLOGY ELECTIVES

ANES 8000 Clinical Anesthesiology 2 - 4 wks Max: 4
Course Director, Matthew Roberts, M.D., 303-724-1755. Course Coordinator, Suzanne Bullard, 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.

ANES 8001 Surgery Intensive Care 4 wks Max: 2
Course Director, Fareed Azam, M.D., 303-266-6420. Course Coordinator, Suzanne Bullard, 303-724-1765.
Prerequisites: Anesthesiology
“During this Sub-I rotation, students actively participate in patient management, perform procedures, present clinical topics, discuss pathophysiology of the critically ill. Clinical excellence and an in-depth paper (2000-2500 words) are honors grade requirements.

ANES 8002 Anes Subspecialties 2 - 4 wks Max: 4
Course Director, Matthew Roberts, M.D., 303-724-1755. Course Coordinator, Suzanne Bullard, 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 & D, Cardiothoracics, Neurosurgery, Transplants and Pre-Anesthesia Testing.

ANES 8100 Course Away in Denver 2 - 16 wks
Course Director, Matthew Roberts, M.D., 303-724-1755. Course Coordinator, Suzanne Bullard, 303-724-1765.
Prerequisite: Anesthesiology, Departmental approval must be obtained and all arrangements made one month in advance.
Students should discuss their course evaluation with their instructor and ensure that the written evaluation is mailed to Suzanne Bullard.

ANES 8200 Course Away In Colorado 2 - 16 wks
Course description is the same as ANES 8100.

ANES 8300 Course Away Outside Colo 4 - 16 wks
Course description is the same as ANES 8100.

ANES 8400 Course Away Outside U.S. 4 - 16 wks
Course Director, Matthew Roberts, M.D. Course Coordinator, Suzanne Bullard, 303-724-1765.
Prerequisite: Student must receive prior approval from the Associate Dean for Student Affairs.
Course description is the same as ANES 8100. Planning consultation is available through the Medical Student International Program.

ANES 8600 Research Anesthesiology 2 - 12 wks
Course Director, Paul Wischmeyer, M.D. 720-848-6700. Course Coordinator, Suzanne Bullard, 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.

ANES 8630  Research Anes Outside CO  4 - 12 wks
Course description is the same as ANES 8600.

ANES 8640  Research Anes Out Of U.S.  4 - 12 wks
Course description is the same as ANES 8600.

DERMATOLOGY ELECTIVES

DERM 8000  Clinical Dermatology  4 wks  Max: 8
Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.
Prerequisites: 3rd year medicine clerkship.
This course is designed to provide a broad overview of medical, surgical and pediatric dermatology. Students will become familiar with the differential diagnosis and treatment of common skin disease, and procedural dermatology including skin biopsies and cryosurgery.

DERM 8300  Course Away Outside Colo  4 wks
Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.
Pre-requisite: Course Director approval required to register.
A four-week clinical dermatology elective at an AAMC accredited institution outside Colorado. Sections 49-50 are not available to 4th year students graduating in May.

DERM 8400  Course Away Outside U.S.  4 wks
Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.
This is a four-week clinical dermatology elective outside the United States. Sections 49-50 are not available to 4th year students graduating in May.

DERM 8600  Research in Dermatology  4-12 wks  Max: 5
Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.
Prerequisite: Course 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.

DERM 8630  Research Derm Outside CO  4-12 wks
Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.
Prerequisite: Course Director approval required.
This is a dermatology research elective at an AAMC accredited institution.

DERM 8640  Research Derm Out Of U.S  4-12 wks
Restrictions: This course may only be added during a drop/add period.
Prerequisite: Course Director approval required to add this course. This is a dermatology research elective outside the United States.

FAMILY MEDICINE ELECTIVES

FMMD 8001  Healthcare Poor/Homeless  12 wks  Max: 8
Fall/Spring Semesters only
Course Director, Allegra Melillo, M.D., Course Coordinator, Katie Watts, 303-724-9700.
Assist the FMMD 6624 Healthcare for the Poor and Homeless course by participating in Saturday morning clinics at Stout Street Homeless Clinic and teaching first and second year medical students. Credit received for this course does NOT apply towards graduation.

FMMD 8002  Family Med Subinternship  4 wks  Max: 1
Course Director, Michael Bross, MD, Course Coordinator, Mandy Whitton, 720-848-9100.
“This course can meet Sub-I qualifications.”
Experience CU Family Medicine! Students will be members of the inpatient service team at the Anschutz Inpatient Pavilion, take call, and will spend 2 half days per week at the A.F. Williams Family Medicine Center (outpatient clinic).

FMMD 8005  Care for Underserved  2 wks  Max: 1
Offered at Lowry. Interact 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.

**FMMD 8007 Out-Patient Family Med**  
4 wks  Max: 1  
Course Director, Mortezad Khodaee, M.D.  
Course Coordinator, Mandy Whitton, 720-848-9100.

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

**FMMD 8008 Occup/Envir Med In FM**  
2 - 4 wks  
Course Director, David Gaspar, M.D.  
Course Coordinator, Katie Watts, 303-724-9700.

Prerequisite: Course director approval required to add this elective.

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

**FMMD 8009 Directed Study in FM**  
2 - 8 wks  
Course Director, Caroline LeClair, DO.  
Course Coordinator, Katie Watts, 303-724-9700.

Prerequisite: Course director approval required to add this elective.

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.

**FMMD 8010 Preventive Hlth Elective**  
2 wks  Min: 3/Max: 6  
Course Director, Bonnie Jortberg, MS, RD, CDE.  
Course Coordinator, Katie Watts, 303-724-9700.

Prerequisite: Course Director approval required to add elective.

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.

**FMMD 8011 Colon Cancer & Endoscopy**  
2 wks  Max: 4  
Course Director, John M. Westfall, MD, MPH.  
Course Coordinator, Beth Ingram, 303-724-0360.  
Prerequisite: Course Coordinator approval required to add this course.  
Email: Beth.Ingram@ucdenver.edu.

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.

**FMMD 8012 Oral Health:Acute Dental**  
2 wks  Min:1/Max:1  
Course Directors, Mark Deutchman, MD and Kishore Shetty, DDS, MS.  
Course Coordinator, Mark Deutchman, MD, 303-724-9725, mark.deutchman@ucdenver.edu.

Prerequisite: 4th year medical student. Restrictions: This elective offered only at selected times, students must communicate with Dr. Deutchman about what times are available. It will not be offered in June, July, August, or December.

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

**FMMD 8013 Oral Health: Children**  
2 wks  Min:1/Max:1  
Course Directors, Mark Deutchman, MD, 303-704-9725 and Ann Wilson, DDS, MS.  
Course Coordinator, Mark Deutchman, MD, 303-724-9725. mark.deutchman@ucdenver.edu.

Course Restrictions: This elective is offered only at selected times, students must communicate with Dr. Deutchman about what times are available.

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.

**FMMD 8100 FM Course Away In Denver**  
2 - 16 wks  
Course Director, David Gaspar, M.D.  
Course Coordinator, Katie Watts, 303-724-9700.

"This course can meet Sub-I qualifications."

Students will manage problems common to Family Medicine. Four-week inpatient sub-internships available by direct application to Saint Joseph’s, St. Anthony’s, Rose, and Swedish Family Medicine Residency programs. Outpatient electives at these programs and private offices also available.

**FMMD 8200 FM Course Away In CO**  
2 - 16 wks  
Course Director, David Gaspar, M.D.  
Course Coordinator, Katie Watts, 303-724-9700.

Restrictions: May not register for final 6 weeks of academic year.

"This course can meet Sub-I qualifications."
Students will manage problems common to Family Medicine. Four-week inpatient sub-internships available by direct
application to Ft. Collins, North Colorado (Greeley), Saint Mary’s (Grand Junction), Southern Colorado (Pueblo) Residency
programs. Outpatient electives at these programs and private offices also available.

**FMMD 8300  FM Course Away in US** 2 - 16 wks
Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-9700.
Restriction: May not register for final 6 weeks of academic year.
Students will manage problems common to Family Medicine. Inpatient and outpatient electives available by direct
application. U.S. Family Medicine Residency programs or in private offices with course director approval.

**FMMD 8400  International FM** 4 - 16 wks
Co-Course Directors, David Gaspar, MD, Michelle Doucette, PhD. Course Coordinator, Katie Watts, 303-724-9700.
Restriction: May not register for final 6 weeks for academic year.
Prerequisite: Approval from 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.

**FMMD 8411  Foreign Language Immersion** 4 - 8 wks
Co-Course Directors, David Gaspar, MD, Michelle Doucette, PhD. Course Coordinator, Katie Watts, 303-724-9700.
Restrictions: Prior approval of the Course Director and from the Associate Dean of Student Affairs required to register.
Students attend an accredited Foreign Language program. Participation is 80 hours of language study AND 20 hours of
medical Foreign Language or 24 hours of clinical. Successful International Experiences sessions are required. Arrangements must
be completed 60 days prior.

**FMMD 8600  Research in FM** 2 - 12 wks
Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-9700.
Prerequisite: The student must receive prior approval from the Associate Dean for Student Affairs and the department to register.
Primary Care research opportunities are available in practice-based and epidemiologic research.

**FMMD 8630  FM Research Outside CO** 4 - 12 wks
Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-9700.
Restrictions: May not register for final 6 weeks of academic year.
Prerequisite: Departmental approval must be obtained and all arrangements made at least one semester in advance. Approval of
the Associate Dean for Student Affairs required.
Course description same as FMMD 8600, except occurs outside of Colorado.

**FMMD 8640  Int'l FM Research** 4 - 16 wks
Co-Course Directors, David Gaspar, MD, Michelle Doucette, PhD. Course Coordinator, Katie Watts, 303-724-9700.
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.

**IDPT 8000  Foundations Doctoring** 4 0.5 cr. Summer, 1.0 Fall & Spring
Course Director, Wendy Madigosky, M.D., 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.
Prerequisite: IDPT 7000
This course continues the established student-preceptor relationship from the FDC course. Students attend their
preceptor office 2-3 times per month. Students will work with a panel of patients or families serving as their physician under the
supervision of their preceptor.

**IDPT 8001  Tutoring in Foundations** Fall and Spring sem 1.0 cr
Course Director, Wendy Madigosky, M.D., 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.
Fourth year students are trained how to be tutors and then use their skills with first and second year students learning
physical exam and communication skills. Learn how to coach small groups of students, give feedback and evaluate student
performance.

**IDPT 8003  Geriatrics** 4 wks Max: 2
Course Directors, Laurence J. Robbins, M.D. Course Coordinator, Lynn Blair, 303-393-2822.
Student receives core didactic and reading material to enhance their knowledge of common geriatric medical and psychosocial issues. Exposed to patient care in numerous out-patient, inpatient, hospice, long term care and home care settings on and off of University campus.

IDPT 8005 Integrated Clinicians 5  2 wks
Course Director, Lisa Schilling, M.D., MSPH., Jeffrey Druck, M.D. Course Coordinator, Christy Linsenmaier, 303-724-7732.
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 8006 Integrated Clinicians 6  2 wks
Course Director, Lisa Schilling, M.D., MSPH. Jeffrey Druck, M.D. Course Coordinator, Christy Linsenmaier, 303-724-7732.

ICC 6 is a required Phase IV course that will provide you with essential learning opportunities to begin residency and your career to include ACLS, legal malpractice, teaching skills, finance, leadership skills and specialty specific clinical reviews.

IDPT 8007 Medicine / Pediatrics  2, 3 or 4 wks  Max: 1
Provide ambulatory and hospital care for pediatric and adult patients with a physician board-certified in both medicine and pediatrics. The focus is primary care. This elective is of interest to students interested in medicine/pediatric residencies and careers.

IDPT 8009 Head/Neck Tumor Oncology  4 wks  Max: 1
Course Director, John Song, M.D. Course Coordinator, Alicia Gore, 303-724-1957.
Restrictions: Course not offered sections 9, 13, 29.
Exposure to patients with H&N malignancies and time spent in primary treatment disciplines. Goals, students should assess patient complaints, formulate treatment plan and participate in interdisciplinary approach to management of H&N cancer patients.

IDPT 8011 Clinical Nutrition  2 wks  Max: 1
Course Director, Nancy Krebs, M.D., M.S., 303-315-7037. Course Coordinator, Laura Primak, RD, CNSD, preferred contact: laura.primak@uchsc.edu, alternative cell: 303-506-5228. Contact Laura 2 weeks prior to start date.
Develop your nutrition assessment skills with this elective, tailored to your needs with adult and/or pediatric inpatients and/or outpatients with a variety of conditions and diseases. Active learning with exceptional mentors is emphasized.

IDPT 8013 Tropical Medicine  2 wks  Max: 20/Min: 5
Course Directors: Renee King, MD, Gretchen Heinrichs, MD, Michelle Haas, MD, Neena Jain, MD, Rich Gustafson, MD, Course Coordinator, Cathy Maciel, 720-848-6767.
Restrictions: Offered section 25 only.
Interactive discussions, case presentations, lab sessions, and lectures from experience global health. Topics cover healthcare in resource-poor settings, tropical diseases, and basics of community health and international public health. Evaluation based on class participation/ final examination.

IDPT 8014 Global Hlth US Project  4 – 8 wks  Max: 20
Course Directors: Renee King, MD, Gretchen Heinrichs, MD. Course Coordinator, Cathy Maciel, 720-848-6777.
Course Restrictions: Course director approval required to add course.
This course is the continuation of IDPT 6667 and 6668. Students will undertake a global health project at a US-based site under the supervision of their designated mentor and local supervisors.

IDPT 8015 Global Hlth Intl Project  4 – 8 wks  Max: 20
Course Directors: Renee King, MD, Gretchen Heinrichs, MD. Course Coordinator, Cathy Maciel, 720-848-6777.
Course Restrictions: Course director approval required to add course.
This course is the continuation of IDPT 6667 and 6668. Students will undertake a global health project at an international site under the supervision of their designated mentor and local supervisors.

IDPT 8016 Physician as Educator  1.0 cr per term  Min:5/Max:15
Course Director, Allegra Melillo, M.D. Course Coordinator, Katio Watts, 303-724-9700.
Course Restrictions: This is a two-semester course offered fall and spring semesters.
This elective is intended to develop your skills as an effective teacher in clinical settings. This will include participation in evening teaching workshops, co-precepting first and second year medical students at Stout Street Clinic and Foundations of Doctoring skills sessions.

IDPT 8090 Mentored Scholarship  Fall and Spring
Course Director, Richard Byyny, M.D. 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 8091  MSA Phase IV Preparation  
Course Director, Richard Byyny, M.D.  
Course Coordinator, Stephanie Vetter, 303-724-7731.
Prerequisite: MSA form required – see Vicki Melton, 303-724-6404, SOM Office of Student Affairs. 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 8092  MSA Intensive Preparation  
Course Director, Richard Byyny, M.D.  
Course Coordinator, Stephanie Vetter, 303-724-7731.
Prerequisite: MSA form required – see Vicki Melton, 303-724-6404, SOM Office of Student Affairs. Prior approval of Associate Dean for Student Affairs, Mentor, and Course Director required.

Restrictions: Offered Sections 21 and 22 only.

Two week intensive MSA session to prepare students to complete their mentored scholarly project course requirements.

IDPT 8827  Directed Study Clin Sci  
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.

MEDICINE ELECTIVES

MED 8001  Medicine Subinternship  
Course Director, Adam Trosterman, MD, 303-266-0586.  
Course Coordinator, Susan Claxon, 303-724-1790.

"This course can meet Sub-I qualifications."

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 and VAMC.

MED 8003  Transfusion Medicine  
Course Director, Daniel R. Ambruso, M.D., 303-363-2241.  
Course Coordinator, Christian Snyder, 303-363-2241.

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.

MED 8004  Cardiology  
Course Director, Peter M. Buttrick, M.D., 303-724-2089.  
Course Coordinator, Karen Mileham, 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.

MED 8005  Cardiac Diagnostic Skill  
Course Director, William Nelson, MD. 303-837-6822.  
Course Coordinator, Rebecca Schoby, 303-866-7837.
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.

MED 8006  Allergy/Clin Immunology  
Course Director, Stephen Dreskin, M.D., 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.

MED 8007  Clinical Renal  
Course Director, Tomas Berl, M.D., 303-724-4803.  
Course Coordinator, Kate Hoche, 303-724-4818.

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.

MED 8009  Clin Infectious Diseases  
Course Director, Nancy Madinger, M.D.  
Course Coordinator, Sandra Wigginton, 303-724-4932. sandra.wiggington@ucdenver.edu.
Prerequisites: Completion of core requirements for 3rd year students.

A 2 week elective may be available. Student must make arrangements with Student Affairs and be pre-approved by Program Director before being confirmed to take elective course.
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.

**MED 8010 Clin Gastroenterology** 4 to 12 wks  Max: 2
Course Director, Joel Levine, M.D. Course Coordinator, Heidi Moore, 303-724-1857.
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.

**MED 8011 Pulmonary** 4 wks  Max: 4
Course Director, Marvin Schwarz, M.D. Course Coordinator, Jennifer Waters, 303-315-4211.
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.

**MED 8012 Clinical Rheumatology** 4 wks  Max: 1
Course Director, Robert W. Janson, M.D. Course Coordinator, Wanda Simpson, 303-724-7605.
Prerequisite: Completion of all third year clerkships.
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.

**MED 8013 Endocrinology** 4 or 6 wks  Max: 2
Course Director, Cecilia Wang, M.D., 303-399-8020 x2691. Course Coordinator, Emily Fowler, 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.

**MED 8014 Hematology / Oncology** 3 - 6 wks  Max: 1
Course Director, Paul Seligman, M.D. Course Coordinator, Theresa Martinez, 303-724-4088.
Prerequisites: Med, Obgy, Ped, Pscb 7000.
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.

**MED 8017 Hospice/Palliative Care** 2 - 4 wks  Max: 1
Course Director: Jeanie Youngwerth, MD., 720-848-4289.
Requirement - contact Dr. Youngwerth 1 week prior to starting via email Jean.Youngwerth@ucdenver.edu.
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.

**MED 8021 Clinical Medical Spanish (NEW COURSE Spring 2010)** 4 wks  Spring Sem. Max:14
Course Directors, Monica L. Carter, MD, 720-848-0819, and Steve Lowenstein, MD, MPH. Course Coordinator, Rory Foster, Common Ground International.
Prerequisites: 4th year medical student, completion of essentials and clinical cores curriculum, 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 is desirable (SABES elective or successful completion of Common Ground’s Beginning I and II Medical Spanish courses or equivalent.)
Clinical Medical Spanish is a near-immersion experience in medical Spanish, consisting of: intensive classroom instruction in medical Spanish; a clinical sub-internship at the Salud Family Health Centers; home visits with the mobile care unit; and a focused scholarly project.
Estimated expenses of $330, which includes 32 hours of classroom instruction, review of homework assignments, and other administrative responsibilities.

**MED 8022 Disability Medicine** 4 wks  Max: 2
Course Director, Laura Pickler, MD, MPH. Pickler@tchden.org, 720-777-7450, campus box:B032.
This course addresses the considerations and challenges of providing quality health care to individuals with disabilities throughout their lifespan. While the primary focus is intellectual and developmental disabilities, the student will also gain exposure to other chronic conditions.

**MED 8025 Medical Oncology** 4 - 6 wks  Max: 2
Course Director, Karl Lewis, M.D., 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.

**MED 8026 Medical Oncology Sub I** 4 wks  Max: 1
Course Director, Karl Lewis, M.D., 720-848-0584.
“This course can meet Sub-I qualifications.”
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.
MED 8029  Applied Clin Pharmacolog  4 wks  Max: 120/Min: 20
Course Director, Joseph Gal, Ph.D.  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.

MED 8032  Corrections Health Care  2 wks  Max: 1
Course Directors, Ingrid Binswanger, M.D., Peter Crum, M.D., and Eve Aagaard, M.D.  Course Coordinator, Kathy Werfelmann, 303-724-1798.
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).

MED 8033  Sub In-Pat Med St Joseph  4 wks  Max: 2
Course Directors, Robert Gibbons, M.D. and Lisa Cyran, M.D.  Course Coordinator, Rebecca Schoby, 303-866-7837.
“This course can meet Sub-I qualifications.”
Student functions as an intern-equivalent, responsible for evaluation and continuing care of patients under supervision of a resident and attending. Student will enhance skills in reporting, interpreting clinical information, communication, and in-patient management plans. Students will present EBM-research clinical question.

MED 8034  Sub I Crit Care StJoseph  4 wks  Max: 2
Course Directors, Robert Gibbons, M.D. and Lisa Cyran, M.D.  Course Coordinator, Rebecca Schoby, 303-866-7837.
“This course can meet Sub-I qualifications.”
Student functions as an intern-equivalent and admits patients during overnight call every third day. Student will attend daily ICU interdisciplinary rounds and enhance skills in reporting, interpreting clinical information, communication, patient management plans. Student will present an EMB-research clinical question.

MED 8036  Sub I Critical Care DHMC  4 wks  Max: 2
Course Director, James H. Fisher, M.D.  Course Coordinator, Doris Quintana, 303-436-5905.
Prerequisites: Sub-I in medicine or surgery. Course Director approval required to add this course.
“This course can meet Sub-I qualifications.”
The sub-internship in medical critical care offers phase 4 medical students an opportunity to develop expertise in the diagnosis and management of critically ill patients. Students will also receive training in the performance of common ICU procedures.

MED 8037  Sub I Critical Care UH  4 wks  Max: 1
Course Director, Ellen Burnham, M.D.  Course Coordinator, Katie Coulter, 303-724-6079.
Prerequisites: Sub I in Medicine or Surgery.
“This course can meet Sub-I qualifications.”
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.

MED 8038  CAM Wellness Elective  Fall, Spring sem.  2 or 4 wks  Min:2/ Max: 4
Course Director, Lisa Corbin, M.D.  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.

MED 8100  Course Away in Denver  2 - 16 wks
Course Director, Eva Aagaard, M.D.  Course Coordinator, Kathy Werfelmann, 303-724-1798.
Restrictions: Not available sections 49-50.
Prerequisite: Course director approved required to add course.
Students complete independent clinical study work at non UCD SOM clinics and hospitals. Course is Pass/Fail only.

MED 8200  Course Away in Colorado  2 - 16 wks
Course description and restrictions same as Med 8100.

MED 8300  Course Away Outside Colo  2 - 16 wks
Course description and restrictions same as Med 8100.

MED 8400  Course Away Outside U.S.  4 - 16 wks
Restrictions: Not available sections 49-50.
Course description is the same as MED 8100. The student must receive approval from the Associate Dean for Student Affairs. Planning consultation is available through the Medical Student International Program.

MED 8600  Research in Medicine  2 - 12 wks
Course Directors Kathryn Horwitz, Ph.D., 303-724-3936 and Eva Aagaard, M.D., 303-724-1790. Course Coordinator, Kathy Werfelmann, 303-724-1798.

Restrictions: Not available sections 49-50.

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

MED 8601 Intro Biomed Research 2 - 4 wks
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.
Course Director, John Repine, M.D.

MED 8630 Research Med Outside CO 4 - 12 wks
Course Directors Kathryn Horwitz, Ph.D., 303-724-3936 and Eva Aagaard, M.D., 303-724-1790. Course Coordinator, Susan Claxon, 303-724-1790.
Restrictions: Not available sections 49-50.
Prerequisites: Departmental approval must be obtained and all arrangements made at least one semester in advance. The student must receive prior approval from the Associate Dean for Student Affairs. This course is graded on a pass/fail basis only.

MED 8640 Research Med Out Of U.S. 4 - 12 wks
Course Directors Kathryn Horwitz, Ph.D., 303-724-3936 and Eva Aagaard, M.D., 303-724-1790. Course Coordinator, Susan Claxon, 303-724-1790.
Restrictions: Not available sections 49-50.

Seniors do clinical, basic science or health services research under the supervision of a Medicine faculty. Project is defined with individual mentor and approved by course director. This course is graded on a pass/fail basis only.

NEUROLOGY ELECTIVES

NEUR 8000 Neurology 4 wks Max: 3
Course Director, Christopher M. Filley, M.D., 303-724-2195. Course Coordinator, Rachelle Waller, 303-724-4589.

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 Course Away In Denver 2 - 16 wks
Course Director, Christopher M. Filley, M.D., 303-724-2195. Course Coordinator, Rachelle Waller, 303-724-4589.
Prerequisite: Arrangements must be made one month in advance.
A written evaluation must be sent from the outside department to Dr. Filley. Dr. Filley assigns final grade.

NEUR 8300 Course Away Outside Colo 4 - 16 wks
Course description is the same as Neur 8100.

NEUR 8400 Course Away Outside U.S. 4 - 16 wks
Prerequisite: The student must receive approval from the Associate Dean for Student Affairs and course director.
Course description same as NEUR 8300. Planning consultation is available through the Medical Student International Program. Course work must be discussed with and approved by Dr. Filley.

NEUR 8600 Research in Neurology 2 - 12 wks
Prerequisite: Offered with Chairman’s approval only. The student must receive approval from the Associate Dean for Student Affairs.
For further course information, contact the Chairman, Donald Gilden, M.D., 303-724-4326.
Course Coordinator, Sheilah Redmond 303-724-4330.

NEUR 8630 Research Neur Outside Colo 2 - 12 wks
Prerequisite: Departmental approval must be obtained and all arrangements made at least one semester in advance. The student must receive prior approval from the Associate Dean for Student Affairs and from the Chairman of Neurology, Donald Gilden, M.D., 303-724-4326.

NEUR 8640 Research Neur Out Of U.S 4 - 12 wks
Course description same as NEUR 8630.

NEUROSURGERY ELECTIVES
NSUR 8014  Neurosurgery Sub I  2 - 6 wks  Max: 8
Course Director, Michael Handler, M.D., 720-777-6100. Course Coordinator, Lauren Buckles, 303-724-2302.
“This course can meet Sub-I qualifications.”
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.

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

Students are required to discuss their course evaluation with their individual instructor and ensure a written evaluation is mailed to Dr. Michael Handler. Dr. Handler assigns final grade.

NSUR 8100  Course Away In Denver  2 - 16 wks
Course Director, Michael Handler, M.D. Course Coordinator, Lauren Buckles, 303-724-2302.
Prerequisites: Departmental approval must be obtained and arrangements made one month in advance.

OBGY 8000  General Obstetrics Sub I  4 wks  Max: 1
Course Director, Kathy Witzeman, M.D., 303-602-9725. Course Coordinator, Bethany Andrews, 303-724-2031.
“This course can meet Sub-I qualifications.”
Offered at DHMC only. Includes experience in prenatal, intrapartum, postpartum, and family planning. Student works under clinical supervision of residents and attending staff.

OBGY 8001  General Gynecology Sub I  4 wks  Max: 1
Course Director, Kathy Witzeman, M.D., 303-602-9725. Course Coordinator, Bethany Andrews, 303-724-2031.
“This course can meet Sub-I qualifications.”
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.

OBGY 8002  Directed Study in OBGYN  4 or 8 wks
Course Director, Lorraine Dugoff, M.D., 303-724-2044. Course Coordinator, Bethany Andrews, 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.

OBGY 8004  High Risk Maternal/Fetal  4 wks  Max: 1
Course Director, Lorraine Dugoff, M.D., 303-724-2044. Course Coordinator, Bethany Andrews, 303-724-2031.
“This course can meet Sub-I qualifications.”
Intensive exposure to problems of high-risk obstetrics. Student will work under supervision of the Maternal-Fetal Medicine Staff. Student will attend high-risk clinics, have primary responsibility for patient care in ante partum unit under supervision of chief resident.
OBGY 8005  Gynecologic Oncology  4 or 6 wks  Max: 1
Course Director, Mike Kelly, 303-724-2066. Course Coordinator, Bethany Andrews, 303-724-2031.

“*This course can meet Sub-I qualifications.*”
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.

OBGY 8009  GYN Subspecialties  4 or 6 wks  Max: 1
Course Director, Kristina Tocce, M.D. 303-724-2044. Course Coordinator, Bethany Andrews, 303-724-2031.

Student attends 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.

OBGY 8010  Reproductive/Infertility  4 wks  Max: 1
Course Director, Ruben Alvero, M.D. Course Coordinator, Bethany Andrews, 303-724-2031.

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

OBGY 8011  Family Planning  4 wks  Max: 1
Course Director, Kristina Tocce, M.D., Co-course Director, Stephanie Teal, M.D., Course Coordinator, Bethany Andrews, 303-724-2031.

Prerequisites: Passing grade in third year Women and Newborns clerkship (IDPT 7030).
This elective is designed to make the student proficient in providing family planning services: contraception, options counseling and termination procedures. Substantial emphasis will also be placed participation in ongoing research activities of the division.

OBGY 8012  UH Gyn Sub-Internship  4 wks  Max: 1
Course Director, Kristina Tocce, M.D., Course Coordinator, Bethany Andrews, 303-724-2031.

“*This course can meet Sub-I qualifications.*”
This course is designed to allow students to become integrally involved with the general gynecology service. Students will partake in all clinical activities of the service, including operative procedures, management of inpatient gynecology conditions, and emergency room consultation.

OBGY 8100  Course Away in Denver  2 - 16 wks
Course Director, Lorraine Dugoff, M.D., 303-724-2044. Course Coordinator, Bethany Andrews, 303-724-2031.

Prerequisites: Departmental approval must be obtained and all arrangements must be made one semester in advance. Students required to discuss course evaluation with individual instructor and ensure a written evaluation is mailed to Dr. Lorraine Dugoff who assigns final grade.

OBGY 8200  Course Away in Colorado  2 - 16 wks
Course description same as OBGY 8100.

OBGY 8300  Course Away Outside Colo  2 - 16 wks
Course description same as OBGY 8100.

OBGY 8400  Course Away Outside U.S.  4 - 16 wks
Prerequisites: The student must receive prior approval from the Associate Dean for Student Affairs.
Planning consultation is available through the Medical Student International Program. Departmental approval must be obtained and all arrangements must be made one semester in advance. Students required to discuss course evaluation with individual instructor and ensure a written evaluation is mailed to Dr. Lorraine Dugoff who assigns final grade.

OBGY 8600  Research in OB/GYN  2 - 12 wks
Course Director, Lorraine Dugoff, M.D., 303-724-2044. Course Coordinator, Bethany Andrews, 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.

OBGY 8630  Research Outside Colorado  4 - 12 wks
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.

OBGY 8640  Research Outside U.S.  4 - 12 wks
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.
### Ophthalmology Electives

<table>
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
<th>Maximum</th>
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</thead>
<tbody>
<tr>
<td>OPHT 8000</td>
<td>Ophthalmology</td>
<td>4 wks</td>
<td>1</td>
</tr>
</tbody>
</table>
|             | **Course Director:** Richard Davidson, M.D.  
             | **Course Coordinator:** Gaylian Howard, 720-848-5029. |          |         |
|             | This elective is designed for senior students seriously considering a career in Ophthalmology. Students rotate at each hospital with in-depth exposure to each subspecialty area. Students are expected to participate with in- and out-patient care, call activities, teaching rounds, conferences. |          |         |
| OPHT 8100   | Course Away In Denver                | 2 - 16 wks |         |
|             | **Course Director:** Richard Davidson, M.D.  
             | **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 8200   | Course Away In Colorado              | 2 - 16 wks |         |
|             | Course description same as OPHT 8100. |          |         |
| OPHT 8300   | Course Away Outside Colo             | 4 - 16 wks |         |
|             | Course description same as OPHT 8100. |          |         |
| OPHT 8400   | Course Away Outside U.S.             | 4 - 16 wks |         |
|             | Prerequisites: The student must receive prior approval from the Associate Dean for Student Affairs.  
Course description same as OPHT 8100. Planning consultation is available through the Medical Student International Program. |          |         |
| OPHT 8600   | Research Ophthalmology               | 2 - 12 wks |         |
|             | **Course Director:** Richard Davidson, M.D.  
             | **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   | Research OPHT Outside CO             | 4 - 16 wks |         |
|             | Course description is the same as OPHT 8100. |          |         |
| OPHT 8640   | Research OPHT Out Of U.S             | 4 - 16 wks |         |
|             | Prerequisites: Approval from the Associate Dean of Student Affairs and course director required to register.  
Course description is the same as Opht 8100. Planning consultation is available through the Medical Student International Program. |          |         |

### Orthopedic Electives

<table>
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<th>Course Code</th>
<th>Course Title</th>
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<tbody>
<tr>
<td>ORTH 8000</td>
<td>Orthopaedic Surgery</td>
<td>4 or 6 wks</td>
<td>6</td>
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</tbody>
</table>
|             | **Course Director:** Jennifer Wolf, M.D.  
             | **Course Coordinator:** Mariama Sannoh, 303-724-2974. |          |         |
|             | Restrictions: Offered summer and fall semesters.  
“This course can meet Sub-I qualifications.”  
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             | 2 - 4 wks | 4       |
|             | **Course Director:** Jennifer Wolf, M.D.  
             | **Course Coordinator:** Mariama Sannoh, 303-724-2974. |          |         |
|             | 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                      | 4 wks    | 1       |
|             | **Course Directors:** Jennifer Wolf, M.D. and Eric McCarty, M.D.  
             | **Course Coordinator:** Mariama Sannoh, 303-724-2974. |          |         |
|             | Course provides clinical experience in musculoskeletal sports medicine. Students will primarily be based in the CU Sports Medicine Clinic. Opportunities include participation in the clinic, operating room and the training room. |          |         |
| ORTH 8100   | Course Away In Denver                | 2 - 16 wks |         |
|             | **Course Director:** Jennifer Wolf, M.D.  
             | **Course Coordinator:** Mariama Sannoh, 303-724-2974. |          |         |
|             | Prerequisites: Arrangements must be made one month in advance. Departmental approval required to register. |          |         |
| ORTH 8200   | Course Away In Colorado              | 2 - 16 wks |         |
|             | Course description same as ORTH 8100. |          |         |
ORTH 8300  Course Away Outside Colo  2 - 16 wks
Course description same as ORTH 8100.

ORTH 8400  Course Away Outside U.S.  2 - 16 wks
Prerequisites: The student must receive prior approval from the Associate Dean for Student Affairs and course
director to register.
Course description same as ORTH 8100. Planning consultation is available through the Medical Student International
Program.

ORTH 8600  Research in Orthopedics  4 - 12 wks
Course Director, Jennifer Wolf, M.D.  Course Coordinator, Mariama Sannoh, 303-724-2974.
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  Research Outside Colo  4 - 12 wks
Prerequisites: Departmental approval must be obtained and all arrangements made at least one month in advance.

ORTH 8640  Research Outside U.S.  4 - 12 wks
Prerequisites: The student must receive prior approval from the Associate Dean for Student Affairs and course
director to register.
Course description same as ORTH 8630.

OTOLARYNGOLOGY ELECTIVES

OTOL 8000  Clinical Otolaryngology  2, 4, or 6 wks  Max: 3
Course Director, Patricia Yoon, M.D., 720-777-4779. Course Coordinator, Alicia Gore 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  Course Away In Denver  2 - 16 wks
Course Director, Patricia Yoon, M.D., 720-777-4779. Course Coordinator, Alicia Gore 303-724-1965.
Prerequisites: Required departmental approval and all arrangements made one quarter in advance.
Students are required to discuss course evaluations with individual instructor and ensure the written evaluation is faxed to
course coordinator at 303-724-1961. Dr. Yoon assigns final grade.

OTOL 8200  Course Away In Colorado  2 - 16 wks
Course description same as OTOL 8100.

OTOL 8300  Course Away Outside Colo  4 - 16 wks
Course description same as OTOL 8100.

OTOL 8400  Course Away Outside U.S.  4 - 16 wks
Prerequisites: Student must receive prior approval from Associate Dean for Student Affairs and course director to register.
Course description same as OTOL 8100. Planning consultation is available through the Medical Student International
program.

OTOL 8600  Research Otolaryngology  4 - 12 wks
Course Director, Katie Rennie, Ph.D., 303-724-3070.
Prerequisites: Prior approval from Associate Dean and 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  Research OTOL Outside CO  4 - 12 wks
Prerequisites: Departmental approval must be obtained and all arrangements made one semester in advance. Approval from the
Associate Dean for Student Affairs also required.

OTOL 8640  Research OTOL Out Of U.S  4 - 12 wks
Course description same as OTOL 8630.

PATHOLOGY ELECTIVES
PATH 8000  Pathology  4, 6 or 12 wks  Max: 2
Course Director, Dana Marie Grzybicki, MD, PhD, 303-724-3495. Course Coordinator, Pamela Goens, 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  4 wks  Max: 30
Course Director, Mary Berg, M.D., Course Coordinator, Pamela Goens, 303-724-3905.
Restrictions: Course offered section 21 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 8002 Experimental Pathology  6 - 12 wks  Max: 12
Course Director, Dana Marie Grzybicki, MD, PhD, 303-724-3495. Course Coordinator, Pamela Goens, 303-724-3905.
Students are exposed to research relevant to human disease and development of a critical approach to the practice of medicine. Participation in multidisciplinary research done in our Department by tutorials, seminars, rotations through laboratories and hands-on practice in cutting-edge research.

PATH 8100 Course Away In Denver  2 - 16 wks
Course Director, Dana Marie Grzybicki, MD, PhD, 303-724-3495. Course Coordinator, Pamela Goens, 303-724-3905.
Prerequisites: Departmental approval required and arrangements made one month in advance. Required, a full written course description from the course director at outside institution.
Students ensure a written evaluation is mailed to Course Director who will assign the final grade.

PATH 8200 Course Away In Colorado  2 - 16 wks
Course description same as Path 8100.

PATH 8300 Course Away Outside Colo  4 - 16 wks
Course description same as Path 8100.

PATH 8400 Course Away Outside U.S.  4 - 16 wks
Course Director, Dana Marie Grzybicki, MD, PhD, 303-724-3495. Course Coordinator, Pamela Goens, 303-724-3905.
Prerequisites: Approval from the Associate Dean for Student Affairs and course director required to register.
Course description same as PATH 8100. Planning consultation is available through the Medical Student International Program.

PATH 8600 Research in Pathology  2 - 12 wks
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 Research Path Outside CO  4 - 12 wks
Course Description same as Path 8600.

Path 8640 Research Path Out of U.S.  4 - 12 wks
Course Description same as Path 8600.

PED 8000 Pediatric Subinternship  4 wks  Max: 3
Co-Course Directors, Adam, Rosenberg, M.D. and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.
Restrictions: A 2-month advance notice is required to drop this course.
“This course can meet Sub-I qualifications.”
Designed for those students who are interested in further training in pediatrics. Students will be integrated as a functional member of a pediatric ward team.

PED 8004 Pediatric Cardiology  4 wks  Max: 1
Co-Course Directors, Michael Schaffer, M.D. and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.
Evaluation of children with heart disease by history, physical examination, electrocardiography, roentgenography, echocardiography, and cardiac catheterization will be stressed. The student will make rounds with the cardiology team, see consults, attend outpatient clinics, and participate in cardiac catheterizations and conferences.

PED 8006 Immunology and Allergy  4 wks  Max: 2
Co-Course Directors, Donald Leung, M.D. and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

The student is assigned to a pediatric allergy attending; share in the care of NJC outpatients, attend lectures, rounds, conferences. Patient responsibility delegated by attending commensurate with the student’s interest/ability. Opportunities provided to observe laboratory procedures in immunology/pulmonary physiology laboratories.

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<th>Course Code</th>
<th>Course Title</th>
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<tr>
<td>PED 8007</td>
<td>Child Abuse and Neglect</td>
<td>4 wks</td>
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<td>Co-Course Directors, Andrew Sirotnak, M.D. and</td>
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<td>Shale Wong, M.D. Course Coordinator, Michael</td>
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<td>Baca, 720-777-4804.</td>
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<td>Restrictions: not available sections 21-24.</td>
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<td>Held at TCH and Kempe Center. Basic principles</td>
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<td></td>
<td>of Child Abuse and Neglect; participate in team</td>
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<td>evaluation of outpatient and inpatient child</td>
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<td>abuse cases, and attend court with team members.</td>
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<td>Primarily observational and includes independent</td>
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<td>study. One case write-up required.</td>
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<tr>
<td>PED 8008</td>
<td>Birth Defects/ Genetics</td>
<td>4, 6, 8, or 12 wks</td>
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<td>Co-Course Directors, Anne Tsai, M.D. and Shale</td>
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<td>Wong, M.D. Course Coordinator, Michael Baca,</td>
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<td>Rotation includes experience in the General</td>
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<td>Genetics, Inherited Metabolic Diseases, Muscle,</td>
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<td>Neurocutaneous and outreach clinics. Students</td>
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<td>will participate in diagnosis, pedigree</td>
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<td>assessment and management. Students will</td>
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<td>participate in consultations with faculty,</td>
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<td>attend conferences, visit laboratories; an oral</td>
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<td>presentation is required.</td>
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<td>PED 8009</td>
<td>Peds Infectious Disease</td>
<td>4 wks</td>
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<td>Co-Course Directors, Mary Glode, M.D. and Shale</td>
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<td>Wong, M.D. Course Coordinator, Michael Baca,</td>
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<td>This course provides experience in the</td>
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<td>pathophysiology, diagnosis, and therapy of</td>
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<td>childhood infections. Students evaluate in-patient</td>
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<td></td>
<td>and present cases at daily teaching rounds.</td>
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<td>Experience in the diagnostic Microbiology</td>
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<td>laboratory is provided. There is a weekly HIV/infectious</td>
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<td>diseases clinic.</td>
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<td>PED 8011</td>
<td>Peds Pulmonary Disease</td>
<td>4 or 6 wks</td>
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<td>Co-Course Directors, Shale Wong, M.D. and Gwen</td>
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<td>Kerby, M.D. Course Coordinator, Michael Baca,</td>
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<td>Basic background knowledge in pediatric</td>
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<td>pulmonary physiology and disease will be</td>
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<td>provided. The student will attend rounds,</td>
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<td>clinics, and weekly conferences and participate</td>
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<td>in hospital consultations. Students will be</td>
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<td>expected to present a seminar/case discussion on</td>
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<td>a pediatric pulmonary topic.</td>
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<tr>
<td>PED 8012</td>
<td>Pediatric Neurology</td>
<td>4, 6, or 12 wks</td>
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<td></td>
<td>Co-Course Directors, Julie Parsons, M.D. and</td>
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<td>Shale Wong, M.D. Course Coordinator, Michael</td>
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<td></td>
<td>Baca, 720-777-4804.</td>
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<td></td>
<td>Child Neurology provides students with the</td>
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<td></td>
<td>opportunity to gain experience evaluating</td>
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<td>children with a wide variety of neurological</td>
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<td>problems. Students will round on hospital and</td>
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<td>clinic patients, complete assigned readings and</td>
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<td>attend Neurology grand rounds.</td>
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<td>PED 8013</td>
<td>Pediatric Endocrinology</td>
<td>4 wks</td>
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<td>Co-Course Directors, Michael Kappy, M.D. and</td>
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<td>Shale Wong, M.D. Course Coordinator, Michael</td>
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<td>Baca, 720-777-4804.</td>
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<td>A large variety of patients with abnormalities</td>
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<td>of growth and pubertal development, thyroid</td>
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<td>disorders, and diabetes mellitus are reviewed</td>
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<td>and treated each week. Seminars on selected</td>
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<td>topics are scheduled three times per week.</td>
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<td>PED 8015</td>
<td>Peds Neonatology Sub I</td>
<td>4 wks</td>
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<td>Co-Course Directors, Elizabeth Thilo, M.D. and</td>
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<td>Shale Wong, M.D. Course Coordinator, Michael</td>
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<td>Baca, 720-777-4804.</td>
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<td>“This course can meet Sub-I qualifications.”</td>
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<td>Student assigned to UCH, DHMC, or TCH and will</td>
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<td>participate actively in the care of critically-</td>
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<td>ill infants including work rounds, attending</td>
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<td>rounds, conferences and night call. Experience</td>
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<td>will be gained in procedures and ventilator</td>
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<td>management.</td>
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<td>PED 8017</td>
<td>Ped Emergency Med DHMC</td>
<td>4 wks</td>
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<td></td>
<td>Co-Course Directors, Jody Maes, M.D. and Shale</td>
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<td>Wong, M.D. Course Coordinator, Michael Baca,</td>
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<td>A challenging and well-rounded clinical experience</td>
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<td>in an urban emergency department, focusing on</td>
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<td>care of children. Students will learn how to</td>
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<td>care for sick and injured children. Spanish</td>
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<td>language skills are a plus. Some evening and</td>
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<td>weekend shifts are required.</td>
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<tr>
<td>PED 8018</td>
<td>General Academic Peds</td>
<td>4 wks</td>
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<td>Co-Course Directors, David Fox, M.D. and Shale</td>
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<td>Wong, M.D. Course Coordinator, Michael Baca,</td>
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<td>Provides basic knowledge and clinical skills in</td>
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<td>diagnosis and management of medical problems</td>
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<td>during adolescence. Including development of</td>
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<td>skills in interviewing and counseling adolescents</td>
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<td>in various health care settings. Students will</td>
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<td>prepare and present a seminar/case discussion on</td>
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<td>PED 8022</td>
<td>Peds Gastroenterology</td>
<td>4 wks</td>
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<td>Co-Course Directors, Edward Hoffenberg, M.D. and</td>
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<td>Shale Wong, M.D. Course Coordinator, Michael</td>
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<td>Baca, 720-777-4804.</td>
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Restrictions: not available section 9.

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.

PED 8024 Child Development/Behavior
2 or 4 wks
Max: 1
Co-Course Directors, Ann Reynolds, M.D. and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

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

PED 8025 Peds Emergency Medicine
4 wks
Max: 1
Co-Course Directors, Tien Vu, M.D. and Shale Wong, M.D. 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.

PED 8026 Pediatric Nephrology
4 wks
Max: 1
Co-Course Directors, Gary Lum, M.D. and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

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

PED 8027 Pediatric Intensive Care
4 wks
Max: 1
Co-Course Directors, Emily Dobyns, M.D., 303-724-2387 and Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

Pre-requisite: IDPT 7020 Infant/Adolescent Care.

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

PED 8029 Breastfeeding Management
2 wks
Max: 2
Course Directors, Nancy Krebs, M.D. Laura Primak, and Maya Bunik, M.D., 720-777-3890.

An introduction to breastfeeding as a medical topic, with precepting by lactation specialists at clinical sites and self-directed learning through complementary activities. Assessment and management of mother/infant breastfeeding dyad is emphasized. Contact Dr. Bunik two weeks before start or Laura.Primak@uchsc.edu.

PED 8030 Vaccination in Pediatrics
4 wks
Max: 2
Course Director, Robert Brayden, M.D., Course Coordinator, Barbara Stucky, 720-777-6562.

Prerequisite: MS III Pediatric Rotation.

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

PED 8100 Course Away in Denver
2 - 16 wks
Course Director, Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

Restrictions: Sections 49-50 not available.

Prerequisites: Departmental approval required and arrangements made one month in advance.

Students obtain course evaluations from on-site instructor and must have evaluation mailed to the student coordinator.

PED 8200 Course Away in Colorado
2 - 16 wks
Restrictions: Sections 49-50 not available.
Course description same as PED 8100.

PED 8300 Course Away Outside Colo
2 - 16 wks
Restrictions: Sections 49-50 not available.
Course description same as PED 8100.

PED 8400 Course Away Outside U.S.
4 - 16 wks
Restrictions: Sections 49-50 not available.
Prerequisites: Program must be discussed with Dr. Shale Wong (720-777-6867) before registration. Department approval must be made one semester in advance of rotation. Approval from the Associate Dean for Student Affairs also required.

PED 8600 Research in Pediatrics
2 - 12 wks
Course Director, Shale Wong, M.D. Course Coordinator, Michael Baca, 720-777-4804.

Restrictions: Sections 49-50 not available.
Prerequisites: Student must receive Departmental approval one semester in advance of rotation. Approval from the Associate Dean for Student Affairs also required.
**PHYSICAL MEDICINE AND REHABILITATION ELECTIVES**

**PHMD 8000  Physical Med & Rehab**  
4 wks  Max: 4  
Course Director, William Sullivan, M.D.  
Course Coordinator, Sarah 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  Course Away In Denver**  
2 - 8 wks  
Course Director, William Sullivan, M.D.  
Course Coordinator, Sarah Manning, 303-724-1263.  
Prerequisite: PHMD 8000. Department approval must be obtained at least one month in advance.  
Clinical experience in Physical Medicine and Rehabilitation, inpatient and/or outpatient. Written evaluation must be sent by individual instructor, with course Director responsible for final grade.

**PHMD 8200  Course Away In Colorado**  
2 - 8 wks  
Course description and requirements same as PHMD 8100.

**PHMD 8300  Course Away Outside Colo**  
4 - 8 wks  
Same as PHMD 8100 with prior approval but no prerequisite PHMD 8000 (although recommended) if visiting an ACGME accredited residency program.

**PHMD 8600  Research Physical Med**  
2 - 12 wks  
Course Director, William Sullivan, M.D.  
Course Coordinator, Sarah 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  Research PHMD Outside CO**  
4 - 12 wks  
Same as PHMD 8600 with prerequisite PHMD 8000 or 8300.

**PHMD 8640  Research PHMD Out Of U.S**  
4 - 12 wks  
Course description and requirements same as PHMD 8630.

**PREVENTIVE MEDICINE ELECTIVES**

**PRMD 8003 Specialty Preventive Med**  
4 - 8 wks  Max: 4  
Course Director, Tim Byers, M.D., M.P.H., 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  Course Away In Denver**  
2 - 12 wks  
Course Director, Tim Byers, M.D., M.P.H., 303-724-1283.  
Prerequisites: Course Director Approval required one month in advance. Students required to discuss course evaluations with instructor and ensure written evaluation is mailed to Dr. Byers who assigns final grade.
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<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Duration</th>
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<td>Course Away In Colorado</td>
<td>2 - 16 wks</td>
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<td>PRMD 8600</td>
<td>Research Preventive Med</td>
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<td>PRMD 8630</td>
<td>Research PRMD Outside CO</td>
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<td>PRMD 8640</td>
<td>Research PRMD Out Of U.S</td>
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<td>PSCH 8000</td>
<td>Sub I in Psychiatry</td>
<td>4 - 6 wks  Max: 3</td>
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<td>PSCH 8001</td>
<td>“Big Six” Substance Prob</td>
<td>2 - 4 wks  Max: 2</td>
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<td>PSCH 8100</td>
<td>Course Away In Denver</td>
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<td>PSCH 8200</td>
<td>Course Away In Colorado</td>
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<td>PSCH 8600</td>
<td>Research in Psychiatry</td>
<td>2 - 12 wks</td>
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**PSYCHIATRY ELECTIVES**

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<td>PSCH 8600</td>
<td>Research in Psychiatry</td>
<td>2 - 12 wks</td>
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PSCH 8630  Research PSCH Outside CO  4 - 12 wks
Course Director, Michael Weissberg, M.D.; Associate Course Director, Robert Davies, M.D. Course Coordinator, Jennifer White, 303-724-7401.
Prerequisites: Departmental approval must be obtained and all arrangements made one semester in advance. The student must also receive approval from the Associate Dean for Student Affairs.

PSCH 8640  Research PSCH Out Of U.S  4 - 12 wks
Course description and requirements same as PSCH 8630.

RAD 8000  Diagnostic Radiology  4 wks  Max: 5
Course Director, Carol Rumack, MD. Course Coordinator, Elizabeth Pae, 303-724-1981
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.

RAD 8002  Nuclear Medicine  4 wks  Max: 2
Course Director, Adrienne Sagel-el, M.D. Course Coordinator, Elizabeth Pae, 303-724-1981.
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.

RAD 8007  Interventional Radiology  2 - 4 wks  Max: 1
Course Director, Kimi Kondo, D.O. Course Coordinator, Elizabeth Pae, 303-724-1981.
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.

RAD 8100  Course Away In Denver  2 - 16 wks
Course Director, Carol Rumack, M.D. Course Coordinator, Elizabeth Pae, 303-724-1981.
Prerequisite: RAO 8005. Departmental approval must be obtained one month in advance.
Students are required to discuss their course evaluation with their individual instructor and ensure that the written evaluation is mailed to Dr. Changhu Chen.

RAD 8300  Course Away Outside Colo  2 - 16 wks
Course description and requirements are the same as RAD 8100.

RAD 8600  Research in Radiology  2 - 12 wks
Course Director, Carol Rumack, M.D. Course Coordinator, Elizabeth Pae, 303-724-1981.
Prerequisites: Approval from the Associate Dean of Student Affairs required. The name, address, and phone number of the preceptor must be given to the course director for final approval. Students responsible for obtaining written evaluation. 2 week rotation not Honors eligible.

RAD 8630  Research RAD Outside CO  4 - 12 wks
Course description and requirements are the same as RAD 8600.

RAO 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. Students will attend and participate in multidisciplinary tumor conferences.

RAO 8100  Course Away In Denver  4 - 8 wks
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.
Prerequisite: RAO 8005. Departmental approval must be obtained one month in advance.
Students are required to discuss their course evaluation with their individual instructor and ensure that the written evaluation is mailed to Dr. Changhu Chen.

RAO 8200  Course Away In Colorado  4 - 8 wks
Course description same as for RAO 8100.

**RAO 8300  Course Away Outside Colo  4 - 8 wks**
Course description same as for RAO 8100.

**RAO 8400  Course Away Outside U.S.  4 - 8 wks**
Course description same as for RAO 8100. The student must receive prior approval from the Associate Dean for Student Affairs.

**RAO 8600  Research RAD Oncology  4 - 12 wks**
Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.
Prerequisite: RAO 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.

**RAO 8630  Res RAD ONC Out Of Colo  4 - 12 wks**
Course description same as RAO 8600.

**RAO 8640  Res RAD ONC Out Of U.S. 4 - 12 wks**
Course description same as RAO 8600.

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### SURGERY ELECTIVES

**SURG 8000  Gen Surg Sub I Univ Hosp  4 - 12 wks  Max: 4**
Course Director, Thomas A. Whitehill, M.D., 303-724-2696. Course Coordinator, Janice Frary, 303-724-2681.
*This course can meet Sub-I qualifications.*
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**
*This course can meet Sub-I qualifications.*
Join an Acute Care Surgery Team at a Level I Trauma Center. Course emphasizes pre-operative evaluation, operating room decisions and postoperative care outside the ICU. Student will attend clinics, rounds, conferences and surgical procedures.

**SURG 8002  Gen Surg Sub I St Joseph  4 wks  Max: 2**
Course Director, John T. Moore, M.D. Course Coordinator, Laurie Cooper, 303-837-7295.
Restrictions: Not available sections 5 and 9.
*This course can meet Sub-I qualifications.*

**SURG 8004  Emergency Med Univ Hosp  4 wks  Max: 4**
Course Director, Jason Hoppe, DO. Course Coordinator, Marybeth Hutchins, 720-848-6768.
Students are primary caregivers in a level II trauma center with a variety of patients and individual teaching time with attendings and senior residents. An excellent experience for students seeking instruction in the assessment and management of the undifferentiated patient.

**SURG 8005  Emergency Medicine DHMC  4 wks  Max: 1**
Course Director, Timothy Hurtado, DO, FACEP. 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, 7:15 am., Admin Conf. room.

**SURG 8006  Emer Med Career Elective  4 wks  Max: 3**
Course Director, Timothy Hurtado, DO, FACEP. Course Coordinator, Linda Anderson, 303-436-7129. Restrictions: Emergency Medicine Career track students only until Section 21. Same as Surg 8005 and directed for students applying to EM Residencies. Mentors assigned/work 4-5 shifts directly with student, discuss EM as a career, CV, personal statement, counsel regarding application/match process for residency, Ambulance ride-along.

**SURG 8008  Cardiac Surg Sub  4 wks  Max: 2**
Course Director, David Fullerton, M.D. Course Coordinator, Karen Muth, 303-724-2798.
*This course can meet Sub-I qualifications.*
Adult cardiac and general thoracic surgery and critical care monitoring on the Cardiothoracic Service at UH and Denver VAMC. Students will participate in preoperative, operative and postoperative care.
SURG 8010  Burn Critical Care/Surg  4 or 6 wks  Max: 1
Course Director, Gordon K. Lindberg, M.D., Ph.D., 303-724-2727. Course Coordinator, Robin Miller, 303-724-2727.
“This course can meet Sub-I qualifications.”
Acting sub-intern on Burn Service, working with Burn and related Surgical Critical Care cases. A high level of patient care responsibility, including bedside procedures, burn care and line charges. Work with attending faculty, and gain a multidisciplinary approach to burns.

SURG 8011  Hand Surgery  4 wks  Max: 1
Course Director, Michael J. V. Gordon, M.D. Course Coordinator, Kim Killion-Meeker, 720-724-2792.
The students will participate in all aspects of the hand service including the emergency room, outpatient clinics, inpatient/outpatient operative and non-operative treatment. Emphasis is on acute hand and upper extremity diseases, trauma, their treatment and rehabilitation.

SURG 8012  Urology Subinternship  4 wks  Max: 4
Course Director, Robert Donohue, M.D., 303-724-2712. Course Coordinator, Kathy Politis, 303-724-2712.
“This course can meet Sub-I qualifications.”
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.

SURG 8015  Pediatric Surgery  2, 4, or 6 wks  Max: 1
Course Directors, Frederick Karrer, M.D., Moritz M. Ziegler, MD. Course Coordinator, Lauren Kaufman, 720-777-5506 at TCH.
The student will assume major clinical responsibility for pediatric surgical patients, will work with housestaff, share patient care and work-ups, act as liaison to families, attend operations and teaching conferences, and actively participate in the surgical management of infants and children.

SURG 8019  Plastic Surgery  4 wks  Max: 1
Course Director, Mickey Gordon, MD. Course Coordinator, Kim Killion-Meeker, 303-724-2792.
Prerequisite: IDPT 7050.
Students learn basic principles of wound healing, care, and management; management and reconstruction of maxillofacial trauma; head and neck cancer; congenital anomalies; tissue transplantation; cosmetic surgery; and plastic/reconstructive management of post-burn and post-surgical patients.

SURG 8020  Vascular Surg Research  4 - 12 wks
Course Director, Mark Nehler, M.D., 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.

SURG 8021  Surgical Critical Care  4, 6 or 8 wks  Max: 2
Course Director, Carlton Barnett, M.D., 303-436-5402. Course Coordinator, Jean Roark, 303-436-6575.
Assigned to surgical ICU, work with critical care residents, fellow and staff. Students gain experience in resuscitation, hemodynamic monitoring, mechanical ventilation, nutritional support, bedside ultrasound and all aspects in care of critically ill surgical patients.

SURG 8024  Clinical Toxicology  4 wks  Max: 3
Course Director, Kennon Heard, M.D., 303-739-1264. Course Coordinator, Darlene Vigil, 303-389-1350.
Introduction to medical toxicology at Rocky Mountain Poison and Drug Center. Participation in clinical service, inpatient consultative care at DHMC/UH. Conferences and didactic instruction provided weekly. Short presentations required. Exposed to fundamentals of environmental toxicology, public health concerns and occupational toxicology.

SURG 8030  Clinical Transplantation  2 - 4 wks  Max: 3
Course Director, Michael Wachs, M.D., 720-848-0833. 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.

SURG 8031  Wilderness Medicine  2 wks  Min:10/Max:20
Co-Course Directors, Barbara Blok, M.D. and Kelly Bookman, M.D. 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 and the second week near Moab, Ut.

SURG 8100  Course Away In Denver  2 - 16 wks
Course Director, Thomas A. Whitehill, M.D., 303-724-2696. Course Coordinator, Janice Frary, 303-724-2681.
Prerequisites: Departmental approval must be obtained and all arrangements made one month in advance. Students are required to discuss their course evaluations with their preceptor(s) and ensure that the written evaluation is mailed to Dr. Whitehill, who assigns the final grade.

SURG 8200  Course Away In Colorado  2 - 16 wks
Restrictions: Sections 49-50 not available.
Course description and requirements same as SURG 8100.

**SURG 8300  Course Away Outside Colo**  
4 - 16 wks  
Restrictions: Sections 49-50 not available.  
Course description and requirements same as SURG 8100.

**SURG 8400  Course Away Outside U.S.**  
2 - 16 wks  
Course Director, Thomas A. Whitehill, M.D., 303-724-2696. Course Coordinator, Janice Frary, 303-724-2681.  
Restrictions: Sections 49-50 not available.  
Prerequisites: Students must receive prior approval from the Associate Dean for Student Affairs and course director to add course.  
Course description same as Surg 8100. Planning consultation is available through the Medical Student International Program.

**SURG 8600  Research in Surgery**  
2 - 12 wks  
Course Director, Thomas A. Whitehill, M.D., 303-724-2696. Course Coordinator, Janice Frary, 303-724-2681.  
Prerequisites: The student must receive prior approval from the Associate Dean for Student Affairs and course director to add course.  
Contact department for further course information.

**SURG 8630  Research Surg Outside Colo**  
4 - 12 wks  
Course Director, Thomas A. Whitehill, M.D., 303-724-2696. 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.  
Student must receive approval from the Associate Dean for Student Affairs.

**SURG 8640  Research Surg Out Of U.S**  
2 – 12 wks  
Restrictions: Sections 49-50 not available.  
Prerequisites: Departmental approval must be obtained and all arrangements made one semester in advance.  
Student must receive approval from the Associate Dean for Student Affairs.