

## SCHOOL OF MEDICINE

### PHASE I – REQUIRED CURRICULUM FALL SEMESTER 2010

#### **IDPT 5000 Foundations Doctoring I**

**2.0 cr.**

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

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

#### **IDPT 5001 Human Body**

**7.0 cr.**

Course Co-Directors, Michael Carry, PhD, 303-724-2411 and Steven Britt, MD, 303-724-3441.

Human Body covers the anatomy and embryology of the back, extremities, trunk, head and neck. Students will dissect cadavers and study computer generated cross-sections, reconstructions and radiological images. Case discussions are integrated with clinically related anatomy and physical exam content.

#### **IDPT 5002 Molecules to Medicine**

**8.0 cr.**

Course Director, Robert Low, MD, PhD, 303-724-4307 and Matthew Taylor, MD, PhD, 303-724-1400.

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

#### **IDPT 5015 Basic Card Life Support**

**0.5 cr.**

Course Director, Fred Severyn, MD, 720-848-6777. Course Coordinator, Cathy Maciel, 720-848-6777.

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**

**1.0 cr.**

Course Director, Richard L. Byyny, MD Course Coordinator, Stephanie Vetter, 303-724-7731.

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

### PHASE I – REQUIRED CURRICULUM SPRING SEMESTER 2011

#### **IDPT 5000 Foundations Doctoring I**

**2.0 cr./sem.**

Course is a continuation of the fall semester course.

#### **IDPT 5003 Blood and Lymph**

**4.0 cr.**

Course Co-Directors, Tim Garrington, MD, 720-777-8365 and Jill Slansky, PhD, 303-398-1887.

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

#### **IDPT 5004 Disease and Defense**

**5.0 cr.**

Course Co-Directors, Ronald E. Gill, PhD, 303-724-4230 and Marsha Anderson, MD, 720-777-6877.

Course includes principles of pharmacology, microbiology, and pathology. Topics include the response to infectious, inflammatory, and neoplastic processes. These concepts are integrated during discussion of the "Skin" as an "organ system", including discussions of skin structure, diseases, pathophysiology, and treatment.

#### **IDPT 5005 Cardiovascular/Pul/Renal**

**9.5 cr.**

Course Co-Directors, Rock Levinson, PhD, 303-724-1544 and Lawrence Horwitz, MD 303-724-2089.

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

#### **IDPT 5090 Mentored Scholarship**

**1.0 cr.**

Course Director, Richard L. Byyny, MD. Course Coordinator, Stephanie Vetter, 303-724-7731.

A continuation of course begun in fall semester.

#### **PRMD 5000 Ethics Hlth Profession I**

**1.0 cr.**

Course Co-Directors, Jackie Glover, PhD, 303-724-3992 and Tess Jones, PhD. 303-0724-3995.

Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course includes basic knowledge and skills in ethical theory and reasoning, professional ethics, and inter-professional approaches to health care decision making.

**PHASE II – REQUIRED CURRICULUM FALL SEMESTER 2010**

**IDPT 6000 Foundations Doctoring II**

**2.0 cr./sem.**

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

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

**IDPT 6001 Nervous System**

**7.5 cr.**

Course Co-Directors, Tom French, PhD, 303-724-3387 and Steven Ojemann, MD, 303-724-2285.

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

**IDPT 6002 Digest/Endo/Metaboli Sys**

**9.5 cr.**

Course Directors, Robin Michaels, PhD, 303-724-3402, Virginia Sarapura, MD, 303-724-3931 and Daniel Bessesen, MD, 303-436-5910.

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

**IDPT 6090 Mentored Scholarship**

**1.0 cr.**

Course Director, Richard L. Byyny, MD Course Coordinator, Stephanie Vetter, 303-724-7731.

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

**PRMD 6000 Ethics Hlth Profession 2**

**1.0 cr.**

Course Co-Directors, Jackie Glover, PhD, 303-724-3992 and Tess Jones, PhD, 303-724-3995.

Required two-part course in ethics taught with dental, medical, nursing, pharmacy, physical therapy and physician assistant students. This course includes basic knowledge and skills in ethical theory and reasoning, professional ethics, and inter-professional approaches to health care decision making.

**PHASE II – REQUIRED CURRICULUM FOR SPRING SEMESTER 2011**

**IDPT 6000 Foundations Doctoring II**

**2.0 cr./sem.**

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

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

**IDPT 6003 Life Cycle**

**5.0 cr.**

Co-Course Directors, Andy Bradford, PhD, 303-724-3507 and Sonya Erickson, MD, 303-724-2038.

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

**IDPT 6004 Infectious Disease**

**4.5 cr.**

Co-Course Directors, David Barton, PhD, 303-724-4215 and Edward Janoff, MD, 303-724-4936

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

**IDPT 6090 Mentored Scholarship**

**1.0 cr.**

Course Director, Richard L. Byyny, MD Course Coordinator, Stephanie Vetter, 303-724-7731.

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

**ELECTIVES FOR PHASE 1 AND 2 STUDENTS  
2009-2010**

**DERMATOLOGY ELECTIVE**

**DERM 6660 Career Elective in DERM**

All terms

1.0 crs

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

This course provides an introduction to dermatology. Students will shadow a dermatologist for a total 4 half-day clinics (flexible excluding Monday/Friday afternoons) to get an idea of the scope of practice of dermatology which encompasses dermatologic surgery, adult and pediatric dermatology.

**EMERGENCY MEDICINE ELECTIVES**

**EMED 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, 720-848-6767.

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

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

**EMED 6625 Intro to Global Health**

Fall sem.

1.0 cr.

Max: 50/Min: 10

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

**Course Restrictions:** Global Health Students only (1<sup>st</sup> years).

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).

**EMED 6626 Pre-Hospital Medicine**

Fall, Spring sems.

1.0 cr.

Max: 20/Min: 10

Course Director, Christopher B. Colwell, MD Course Coordinator, Linda Anderson, 303-436-7129.

**Course Restriction:** 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.

**EMED 6627 Intro Emer Med & Trauma**

Spring sem.

1.0 cr.

Max: 999/Min: 10

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

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

**EMED 6628 Flight Medicine**

Fall, Spring sems.

1.0 cr.

Course Director, Christopher B. Colwell, MD, 303-436-6966.

**Pre-requisite:** EMED 6626 Pre-Hospital Medicine.

Students will learn about the unique environment of critical care transport medicine and will experience a 12-hour shift with Flight for Life aboard their helicopters, airplanes, and ambulances while providing care across the region.

**FAMILY MEDICINE ELECTIVES**

**FMMD 6410 Foreign Lang Immersion**

Summer sem.

4.0 cr.

Course Director, David Gaspar, MD, 303-724-0971. Course coordinator Katie Watts, 303-724-0975.

**Prerequisite:** Approval of Course Director and Associate Dean of Student Affairs, completion of course away form.

Attend accredited foreign language school in a foreign country where language is spoken. Participation is 20 hrs/week of language class AND either a medical language course 5 hrs/week OR volunteer family medicine or general practice clinical activity 2 half days/week.

**FMMD 6622 Intro FMMD Research****Summer sem.****Var. cr.  
Max: 12**

Course Director, David Gaspar, MD, 303-724-0974. Course Coordinator, Katie Watts, 303-724-0975.

Provides students the skills in designing a primary care research project. Covers constructing research question, measurement of variables, reviewing literature, research design, reporting results and medical writing. This will serve as a foundation for the 4<sup>th</sup> year required scholarly project.

**FMMD 6624 Hlthcare Poor/Homeless****Fall and Spring sem.****1.0 cr.  
Max: 48**

Course Director, Allegra Melillo, MD Course Coordinator, Katie Watts, 303-724-0975.

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

**FMMD 6628 Rural Track Elective****Fall and Spring sems. 1.0 cr.**

Course Director, Mark Deutchman, MD Course Coordinator, Brenda Baumgarten, 303-724-0340

**Prerequisite:** Student must have been accepted in the Rural Track or have course director approval to add.

**Course Restrictions:** A two-semester course, students must complete fall and spring semesters.

The course goal is to increase the number of students who eventually enter, and remain, in practice in rural Colorado.

The track provides students with, mentorship, additional knowledge, broad skills and rural socialization experiences throughout the 4 years of school.

**FMMD 6629 SABES Spanish Immersion****Fall and Spring sems. 1.0 cr**

Course Director, Mark Deutchman, MD

**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.

**FMMD 6630 Summer Rural Track****Summer Sem****8.0 crs.  
Min: 1/Max: 26**

Course Director, Mark Deutchman, MD, 303-724-9753. Course Coordinator, Brenda Baumgarten, 303-724-0340.

In this 4-week clinical experience students will live in a preceptor's community and participate in the professional and community life of a rural physician. Priority is given to students who have completed Rural Track elective course FMMD 6628.

<b>INTERDEPARTMENTAL ELECTIVES</b>
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**IDPT 5091 MSA Summer Elective****4.0 cr.**

Course Director, Richard L. Byyny, MD Course Coordinator, Stephanie Vetter, 303-724-7731.

**Prerequisite:** MSA 5090.

Students work intensively with mentors and Associate Directors on their project. Students critically review background literature, define a question/hypothesis, develop and implement methods and study design, collect data, potentially analyze and interpret data, written progress reports to Associate Director.

**IDPT 6627 Directed Study Basic Sci****All sems.****Var. cr.**

Co-Course Directors, Maureen Garrity, PhD Course Coordinator, Vicki Melton, 303-724-6404.

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

This course provides an opportunity for medical students to further develop and refine their knowledge of the basic sciences. Course director approval required.

**IDPT 6628 Nutrition and Cancer****Spring sem.****1.0 cr.  
Max: 30/Min: 8**

Course Director, 303-724-3158; Course Coordinator, 303-724-3158.

Human nutrition as it relates to clinical/biological aspects of cancer. Introduction to modern concepts of cancer development and treatment through seminars, patient presentations, lectures, discussion groups. Analyze your diet and what modifications seem likely to reduce the risks of cancer.

**IDPT 6634 Maternity Matching****Fall and Spring sem.****1.0 cr. per term  
Max: 15**

Course Director, Loraine Dugoff, MD, 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. Goal is to improve the knowledge about the stages of pregnancy and patient education.

**IDPT 6636 Summer Preceptor Exp**

**Summer sem.**

**1.0 cr.**

**Restrictions:** Available summer semester only.

Course Director, Wendy Madigosky, MD 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, MD, 303-641-1951. Co-course Directors, Mark Earnest, MD, and Cathy Battaglia, PhD, 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 6639 Hlth Care-Public Policy**

**Fall and Spr sem.**

**1.0 cr.**

Course Director, Gary VanderArk, MD, 303-724-2287. Course Coordinator, Krystin Hasenbalg, 303-724-2299.

Course meets Tuesday, 12:00 Noon to 1:00 PM.

Health care in public policy, work with course director and Colorado Medical Society to collaboratively research current issues in health policy. Students gain an expanded awareness of current issues in healthcare policy and an appreciation for relationship between medicine/politics.

**IDPT 6642 Intro to Women's Health**

**Fall sem.**

**1.0 cr.**

Course Director, Sonya Erickson, MD Course Coordinator, Melissa Lorenzo, 303-724-2038.

**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**

Course Director, Sonya Erickson, MD, Course Coordinator, Melissa Lorenzo, 303-724-2038.

**Prerequisite:** IDPT 6642. **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**

Course Director, Sonya Erickson, MD, Course Coordinator, Melissa Lorenzo, 303-724-2038.

**Prerequisite:** IDPT 6642 and IDPT 6643. **Restrictions:** Must be Phase II student. Course Director approval.

Students will discuss clinical issues in Women's Health

**IDPT 6647 LEADS 2**

**Fall sem.**

**1.0 cr.**

**Min: 10/Max: 30**

Course Director, Steve Federico, MD. Course Coordinator, Holly Hamilton, 303-724-8075.

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

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

Advocacy and leadership skills applied in case-study.

**IDPT 6667 Global Hlth Studies (US)**

**Summer sem.**

**10.0 crs**

Course Directors, Gretchen Heinrichs, MD 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**

**Summer sem.**

**10.0 crs**

Course Directors, Gretchen Heinrichs, MD 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****Spring sem.****1.0 cr.**

Course Director, Gretchen Heinrichs, MD 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.

<b>MEDICINE ELECTIVES</b>
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**MED 6621 Geriatric Medicine****Fall and Spring sem.****2.0 cr.  
Max: 2**

Course Director, Susan Bray-Hall, MD, 303-393-2822. Course Coordinator, Lynn Blair, 303-393-2822.

Aging in America, exposure to geriatric health care ranging from prevention among healthy community dwelling elderly to hospice care for terminally ill in nursing homes.. Students contact the Course Coordinator, Lynn Blair two weeks prior to starting the elective.

**MED 6623 Intro Biomedical Research****Fall, Spring sems.****Var. cr.**

Course Director, John Repine, MD, 303-315-8262.

**Course Requirement:** Prior approval by Course Director required to add this elective.

Independent study with a mentor of your choice. A short paper on a subject chosen by the student is usually required. Dr. Repine will meet with students interested in a career in academic medicine and/or research.

**MED 6626 Molecular Biology Cancer****Fall sem.****1.0 cr.  
Max: 15/Min: 4**

Course Director, John Tentler, PhD, 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****Spring sem.****1.0 cr.  
Max: 12/Min: 4**

Course Director, Henry Claman, MD, 303-724-7188. Course Coordinator, Jeanne Kittle, 303-724-7198.

Included are The Arts in Medicine lectures, weekly critical reading in the anthology, On Doctoring, other texts and pictures in Medical Humanities. Also 'Museum Rounds" at the Denver Art Museum, and a required piece of reflective writing, poetry and prose.

**MED 6628 CAM/Alternative Medicine****Fall sem.****1.0 cr.  
Max: 30 SOM**

Course Director, Lisa Corbin, MD, 720-848-1225.

With 50% of the US population using CAM, physicians need education about its rational use. Through discussions and experiential sessions; therapies such as acupuncture, chiropractic, and herbs are presented. Students may spend a half-day at the Center for Integrative Medicine.

**MED 6629 The Healer's Art****Spring sem.****1.0 cr.**

Co-Course Directors, Rachel Swigris, D.O., 720-848-9526 and Rita Lee, MD, 720-848-2340.

**Course Restrictions:** Phase I and II students.

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

**MED 6631 Med Student Journal Club****Spring sem.****1.0 cr.**

Co-Course Directors, Lisa Shilling, MD, MSPH, 303-724-2254, Jamaluddin Moloo, MD, MPH, 720-848-6508.

This course will provide the opportunity to practice and solidify critical appraisal skills needed for interpreting primary clinical research studies and teach the skills required to apply this information to patient care using seminal research articles in medicine.

**MED 6632 Lit, Art, & Medicine****Fall, Spring sem.****1.0 cr.  
Max: 20/Min: 4**

Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, MaryLou Wallace, 303-724-3994.

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

## ORTHOPAEDIC ELECTIVES

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

[Spring sem.](#)

[1.0 cr.](#)

[Max: 30/Min: 10](#)

Course Director, Frank Scott, MD, 303-848-0485. Course Coordinator, Mariama Sannoh, 303-724-2972.

Course covers an overview of the breadth of orthopaedic surgery. Topics include musculoskeletal oncology, reconstructive surgery, trauma, sports medicine, spine surgery, upper extremity surgery, and primary care orthopaedics.

## OTOLARYNGOLOGY ELECTIVE

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

[All terms](#)

[1.0 crs.](#)

Course Director, Patricia Yoon, MD, 720-777-4779. Course Coordinator, Darci Dreiling, 303-724-1965.

**Course Requirement:** Prior approval by Course Director required to add this elective

The Career Elective in Otolaryngology – Head & Neck Surgery will provide diverse sub-specialty clinical and operative exposure with physician specialists who diagnose and treat disorders of the ears, nose, throat and related structures of the head and neck.

## PEDIATRIC ELECTIVES

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

[Summer sem.](#)

[3.0 cr.](#)

[Max: 3](#)

Course Director, Paul Wadwa, MD, 303-724-6719.

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

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

[All sems.](#)

[1.0 cr.](#)

[Max: 20/Min: 8](#)

Course Director, Stephanie Stevens, MD Course Coordinator, 303-699-6200.

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

## PSYCHIATRY ELECTIVES

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

[Fall and Spr sems.](#)

[2.0 cr.](#)

[Max: 15/Min: 4](#)

Course Director, Robert Davies, MD, 303-724-2229. Course Coordinator, Jennifer White, 303-724-7401.

**Course Requirement:** This is a two semester course. Students will automatically be enrolled for spring semester. Discussions will take place once a month on a Monday evening at 7:00 PM.

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

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

[Spring sem.](#)

[1.0 cr.](#)

[Max: 20/Min: 4](#)

Course Director, Michael Weissberg, MD Course Coordinator, Jennifer White, 303-724-7401.

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

### PSYM 6629 [Medical Hypnosis](#)

[Spring sem.](#)

[1.0 cr.](#)

[Min: 4](#)

Course Director, Steve Allen, MD, 303-741-0239. Course Coordinator, Jennifer White, 303-724-7401.

Medical hypnosis has a wide application in primary care settings, but most primary care practitioners are unfamiliar with its use. Therefore, this course will teach students the basics of trance induction and its application for pain control, insomnia and relaxation.

**PSYM 6632 Denver CARES Elective**

**Fall and Spring sems. 1.0 crs**

Course Director, Robert House, MD 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.

**PSYM 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.

<b>SURGERY ELECTIVES</b>
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**SURG 6660 Career Elective In UROL**

**1.0 crs**

Course Director, Jane Petersen, MD, Course Coordinator, Kathy Politis, 303-724-2712.

**Requirement:** Prior approval by Course Director required to add this elective

Students attend urology outpatient clinics; attend patient interview with resident; once instructed will complete a directed physical exam; audit patient counseling sessions; and discuss options for therapy of diagnosis made

**SCHOOL OF MEDICINE**

<b>PHASE 3 REQUIRED CLINICAL CLERKSHIPS FOR 2010-11</b>
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Required clinical clerkships are open only to University of Colorado Medical Students.

**IDPT 7000 Foundations Doctoring 3**

**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 Angerhofer, 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**

**Fall sem.**

**2.0 crs**

Course Directors, Lisa Schilling, M.D., MSPH, 303-724-2254, Jennifer Adams, MD. Course Coordinator, Christy Angerhofer, 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**

**Spring sem.**

**4.0 crs**

Course Directors, Lisa Schilling, M.D., MSPH, 303-724-2254, Jennifer Adams, MD. Course Coordinator, Christy Angerhofer, 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**

Course Director, Adam Trosterman, M.D. Course Coordinator, Bonnie Caywood, 303-724-1799.

Eight week block focused on the care of the adult inpatient. Students are assigned to two sites, each for 4 weeks: University of Colorado Hospital, Denver Health, Presbyterian St. Lukes, Veterans Affairs Medical Center, Exempla, St. Joseph's, Rose Medical Center.

**IDPT 7020 Infant/Adolescent Care****All terms****12.0 crs.**

Course Director, Jennifer Soep, MD, MSPH, 720-777-6132. Course Coordinator, Brenda Cordova, 720-777-6867

This block introduces clinical objectives to achieve competency in pediatric medicine, emphasizing illness and wellness of children and families, growth, development, physical and mental well-being. Students combine hospital and ambulatory experiences in Denver and other Colorado communities.

**IDPT 7021 Musculoskeletal Care****All terms****4.0 crs.**

Course Director, Gaia Georgopoulos, MD, 720-777-5571. Co-Director, William Sullivan, MD. 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, Chantal O'Brien, M.D. Course Coordinator, Rachelle Waller, 303-724-4589.

Students will participate in the diagnosis and treatment of patients with a wide variety of acute and chronic neurologic disorders. Formal teaching is provided in Attending Rounds, student seminars, resident seminars and departmental Grand Rounds.

**IDPT 7050 Peri/Operative Care****All terms****16.0 crs**

Co-Course Directors, Thomas Whitehill, M.D. and Nathaen Weitzel, M.D. Co-Course Coordinator, Janice Frary, 303-724-2681 and 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****All terms****8.0 crs**

Course Director, Kelly White, M.D. Course Coordinator, Kathy Werfelmann, 303-724-1798.

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

**IDPT 7061 Rural and Community Care****All terms****8.0 crs**

Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-0975.

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

**IDPT 7090 Mentored Scholarship****Fall, Spring sems.****1.0 crs**

Course Director, 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****All terms****2 – 12 wks**

Course Director, Maureen Garrity, Ph.D. Course Coordinator, Vicki Melton, 303-724-6404.

Prerequisite: Course Director approval required to add.

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

**PHASE 4 ELECTIVES 2010-2011**

**Prerequisite for all Phase 4 electives: Completion of Phase 3**

**ANESTHESIOLOGY ELECTIVES**

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

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

**Max: 4**

Course Director, Matthew Roberts, M.D., 303-724-1755. Course Coordinator, Kay Oliver, 303-724-1765.

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

**ANES 8001 [Surgery Intensive Care](#)**

**[4 wks](#)**

**Max: 2**

Course Director, Fareed Azam, M.D., 303-266-6420. Course Coordinator, Kay Oliver, 303-724-1765.

Prerequisites: Anesthesiology

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

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

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

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

**Max: 4**

Course Director, Matthew Roberts, M.D., 303-724-1755. Course Coordinator, Kay Oliver, 303-724-1765.

Prerequisites: Anesthesiology

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

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

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

Course Director, Matthew Roberts, M.D., 720-333-0610. Course Coordinator, Kay Oliver, 303-724-1765

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

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

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

Course Director, Paul Wischmeyer, M.D. 720-848-6700. Course Coordinator, Kay Oliver, 303-724-1765.

Prerequisite: Special permission and individual arrangements required in advance. The student must receive prior approval from the Associate Dean for Student Affairs.

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

**[2, 4, 6, or 8 wks](#)**

Course Director, Paul Wischmeyer, MD, 700-848-6700. Course Coordinator, Kay Oliver, 303-724-1765.

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

**DERMATOLOGY ELECTIVES**

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

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

**Max: 8**

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

Course restrictions: course is offered for two weeks in sections 25-47 only. All other sections must be four weeks.

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

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

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

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

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

**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 DERM Research Away 2, 4, 6, or 8 wks**

Course Director, Cory Dunnick, M.D. Course Coordinator, Kemp Weston, 720-848-0510.  
Course restrictions: Research electives in the U.S. must occur at an AAMC accredited institution.

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

**EMERGENCY MEDICINE ELECTIVES**

**EMED 8004 Emergency Med Univ Hosp 4 wks Max: 4**

Course Director, Jason Hoppe, DO. Course Coordinator, Marybeth Hutchins, 720-848-6777.

Students are primary caregivers in a level II trauma center with a variety of patients and individual teaching time with attendings and senior residents.

**EMED 8005 Emergency Medicine DHMC 4 wks Max: 4**

Course Director, Timothy Hurtado, DO, FACEP. Course Coordinator, Linda Anderson, 303-436-7129.

Course restrictions: Available Spring Semester only (January – April).

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.

**EMED 8006 Emer Med Career Elective 4 wks Max: 4**

Course Director, Timothy Hurtado, DO, FACEP. Course Coordinator, Linda Anderson, 303-436-7129.

Restrictions: Emergency Medicine Career track students only. Sections 001-029 only. (May – December).

Student is primary caregiver for acutely ill/injured patients at DHMC Emergency Department, supervised by Emergency Medicine Staff. Daily lectures in traumatic/medical emergencies, conferences, “board rounds.” Orientation, first day, 7:30 am, Admin Conference room.

**EMED 8024 Clinical Toxicology 4 wks Max: 2**

Course Director, Kennon Heard, M.D., 303-739-1264. Course Coordinator, Darlene Vigil, 303-389-1350.

Provides and introduction to medical toxicology at the RMPDC. Student will participate in clinical service including telephone consultation, fundamentals of environmental toxicology, public health concerns, and occupational toxicology. Each student will make one presentation toward the end of their rotation.

**EMED 8031 Wilderness Medicine 2 wks, Spring Sem. Min:10/Max:25**

Co-Course Directors, Barbara Blok, M.D. and Kelly Bookman, M.D. Course Coordinator, Cathy Maciel, 720-848-6777.

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

Course offered sections 47 and 48 only.

Students will attend lectures on wilderness medicine topics and then practice those scenarios in wilderness settings. The course will spend the first week near Estes Park, CO and the second week near Moab, UT.

**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**

Course Director, Richard Kornfeld, M.D., 720-956-2039. Course Coordinator, Mandy Whitton, 720-848-9100.

Prerequisite: Course Director approval required to register.

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, Morteza Khodaei, M.D. 720-848-9056. 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 or 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, 4, or 8 wks**

Course Director, David Gaspar, MD. Course Coordinator, Katie Watts, 303-724-0974

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. 303-724-9712. [Jack.Westfall@ucdenver.edu](mailto:Jack.Westfall@ucdenver.edu). Course Coordinator, Beth Ingram, 303-724-0360.

**Prerequisite: Course Coordinator approval required to add this course.** Email: [Beth.Ingram@ucdenver.edu](mailto:Beth.Ingram@ucdenver.edu).

Course Restrictions: Not available summer semester.

An independent study of the epidemiology, pathophysiology, clinical presentation, screening and prevention of colorectal cancer. Students will complete an online didactic course, 30-40 lower GI endoscopy cases on state-of-the-art endoscopy simulator and possibly a clinical observation experience.

**FMMD 8012 Oral Health:Acute Dental**

**2 wks**

**Fall, Spring Sem**  
**Min:1/Max:1**

Course Director, Mark Deutchman, MD. 303-724-9725, [mark.deutchman@ucdenver.edu](mailto:mark.deutchman@ucdenver.edu).

Prerequisite: 4<sup>th</sup> 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**

**Fall, Spring Sem**  
**Min:1/Max:1**

Course Director, Mark Deutchman, MD, 303-704-9725. [mark.deutchman@ucdenver.edu](mailto: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 FMMD Elective Away**

**2 or 4 wks**

Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-0975.

**"This course can meet Sub-I qualifications."**

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

**FMMD 8400 International FM**

**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 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: May not register for final 6 weeks of academic year. Not available for honors grading.

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

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 FMMD Research Away**

**2, 4, 6, or 8 wks**

Course Director, David Gaspar, M.D. Course Coordinator, Katie Watts, 303-724-0975.

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

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

**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.

<b>INTERDEPARTMENTAL ELECTIVES</b>
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**IDPT 8000 Foundations Doctoring IV**

**Fall, Spring, Summer Semesters**

Course Director, Wendy Madigosky, M.D., 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.

Prerequisite: IDPT 7000. Course Restrictions: For graduation requirements, this course counts one week for summer semester and two weeks each for fall and spring semesters.

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

**IDPT 8001 Tutoring in Foundations**

**Fall and Spring Semesters**

Course Director, Wendy Madigosky, M.D., 303-724-6420. Course Coordinator, Tina Roquemore, 303-724-6421.

Course Restrictions: For graduation requirements, this course counts two weeks each for fall and spring semesters.

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

**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 8004 Integrated Clinicians 4**

**2 wks**

**Spring Semester**

Course Director, Lisa Schilling, M.D., MSPH., Jeffrey Druck, M.D. Course Coordinator, Annie Lopez Osendorf, 303-724-4558.

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

**IDPT 8005 Integrated Clinicians 5**

**2 wks**

**Spring Semester**

Course Director, Lisa Schilling, M.D., MSPH. Jeffrey Druck, M.D. Course Coordinator, Annie Lopez Osendorf, 303-724-4558.

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

**IDPT 8007 Medicine / Pediatrics****2 or 4 wks****Max: 1**

Course Directors: Eva Aagaard, M.D., 303-724-1790 and Robin Deterding, M.D., 720-777-8449. Course Coordinator, Kathy Werfelmann, 303-724-1798.

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 8011 Clinical Nutrition****2 wks****Max: 1**

Course Director, Nancy Krebs, M.D., M.S., 303-724-3206. Course Coordinator, Laura Primak, RD, CNSD, preferred contact: [laura.primak@uchsc.edu](mailto:laura.primak@uchsc.edu), alternative cell: 303-506-5228. Please email course coordinator two weeks prior to start date.

Develop your nutrition assessment skills with this elective, tailored to your needs with adult and/or pediatric inpatients and/or outpatients with a variety of conditions and diseases. Active learning with exceptional mentors is emphasized.

**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****Fall and Spring Sems. Min:5/Max:15**

Course Director, Allegra Melillo, M.D. Course Coordinator, Katie Watts, 303-724-9700.

Course Restrictions: This is a two-semester course offered fall and spring semesters. For graduation requirements, each semester counts two weeks.

This elective is 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****Summer, Fall, Spring 4 wks**

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****Fall Sem****2 wks**

Course Director, Richard Byyny, M.D. Course Coordinator, Stephanie Vetter, 303-724-7731.

Restrictions: Offered Sections 21 and 22 only.

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.

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

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

Course Director, Maureen Garrity, PhD, 303-724-6404, Course Coordinator, Vicki Melton, 303-724-6404.

Prerequisite: Special permission and individual arrangements required in advance. Student must have a faculty/project mentor who will sign off on the project. The student must receive prior approval from the Associate Dean for Student Affairs.

Restrictions: Cannot be taken after section 47.

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

**IDPT 8827 Directed Study Clin Sci**

**2 – 8 wks**

Course Director, Maureen Garrity, Ph.D.: Course Coordinator, Vicki Melton, 303-724-6404.

Prerequisite: Course Director approval required to add.

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

<b>MEDICINE ELECTIVES</b>
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**MEDS 8001 Medicine Subinternship**

**4 wks**

**Max: 18**

Course Director, Adam Trosterman, MD. Course Coordinator, Bonnie Caywood, 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, ESJH, UCH and VAMC.

**MEDS 8003 Transfusion Medicine**

**4 wks**

**Max: 1**

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

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

Course Restrictions: Notification of, and approval by course director before student starts the course.

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

**MEDS 8004 Cardiology**

**4 or 6 wks**

**Max: 6**

Course Director, Peter M. Buttrick, M.D., 303-724-2089. Course Coordinator, Allison English, 303-724-2089.

Designed to offer a broad general exposure to adult cardiology, including history, physical examination, and an introduction and review of standard noninvasive testing. Rotations will be at UCH, DVAMC and DHMC with assignments based on timing of request and availability.

**MEDS 8005 Cardiac Diagnostic Skill**

**2 wks**

**Max: 6**

Course Directors, William Nelson, MD. 303-837-6822, Fisher, Michael, MD. 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.

**MEDS 8006 Allergy/Clin Immunology**

**4 wks**

**Max: 1**

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.

**MEDS 8007 Clinical Renal**

**4 wks**

**Max: 4**

Course Director, Tomas Berl, M.D., 303-724-4803. Course Coordinator, Jennifer Herzig, 303-724-4851.

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

**MEDS 8009 Clin Infectious Diseases**

**4 wks**

**Max: 4**

Course Director, Nancy Madinger, M.D. Course Coordinator, Sandra Wigginton, 303-724-4932. [sandra.wigginton@ucdenver.edu](mailto:sandra.wigginton@ucdenver.edu).

Prerequisites: Completion of core requirements for 3<sup>rd</sup> year students.

Restrictions: Accept 4<sup>th</sup> year students only.

Note: 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.

**MEDS 8010 Clin Gastroenterology**

**4 to 12 wks**

**Max: 2**

Course Director, Joel Levine, M.D. Course Coordinator, Kendra Burghardt, 303-724-1858.

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

**MEDS 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.

**MEDS 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.

**MEDS 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.

**MEDS 8014 Hematology / Oncology****4 wks****Max: 1**

Course Director, Paul Seligman, M.D. 303-724-4086. Course Coordinator, Theresa Martinez, 303-724-4088.

Students are exposed to a wide range of patients seen in consultation for hematologic and oncologic problems. Students may also elect to attend the numerous subspecialty outpatient clinics for patients with various malignancies.

**MEDS 8017 Hospice/Palliative Care****2 or 4 wks****Max: 1**

Course Director: Jeanie Youngwerth, MD., 720-848-4289.

Requirement - contact Dr. Youngwerth 1 week prior to starting via email [Jean.Youngwerth@ucdenver.edu](mailto: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.

**MEDS 8021 Clinical Medical Spanish (NEW COURSE Spring 2010)****4 wks****Spring Sem Max:14**

Course Director, Monica L. Carten, MD, 720-848-0819. Course Coordinator, Rory Foster, 303-684-5557, Common Ground International.

Prerequisites: 4<sup>th</sup> 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 ambulatory primary care clinics; home visits with the mobile care unit; and a focused scholarly project.

Estimated expenses of \$320, which includes 32 hours of classroom instruction, review of homework assignments, and other administrative responsibilities.

**MEDS 8022 Disability Medicine****2 or 4 wks****Max:4**

Course Director, Laura Pickler, MD, MPH. [Pickler@tchden.org](mailto:Pickler@tchden.org), 720-777-7450, campus box:B032.

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

**MEDS 8023 Medicine Consult****2 or 4 wks****Max:2**

Course Director, Jeffrey Carter, MD, 720-848-6263. [Jeffrey.Carter@ucdenver.edu](mailto:Jeffrey.Carter@ucdenver.edu), Campus Box F782.

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

**MEDS 8025 Medical Oncology****4 - 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.

**MEDS 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.

**MEDS 8029 Applied Clin Pharmacolog** **4 wks** **Max: 120/Min: 20**

Course Director, Curt Freed, MD, 303-724-6002. Course Coordinator, Laura Grubbs, 303-724-6015.

Restriction: Course offered section 37 only.

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

**MEDS 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).

**MEDS 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.

**MEDS 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.

**MEDS 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.

**MEDS 8037 Sub I Critical Care UH** **4 wks** **Max: 1**

Course Director, Ellen r, 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.

**MEDS 8038 CAM Wellness Elective** **Fall , Spring sem.** **2 or 4 wks**  
**Min:2/ Max: 6**

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.

**MEDS 8039 HIV and American Culture** **Spring sem.** **2 wks**  
**Min:4/ Max: 20**

Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, MaryLou Wallace, 303-724-3994.

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

**MEDS 8040 Film and Mental Illness** **Spring sem.** **2 wks**  
**Min:4/ Max: 25**

Course Director, Therese Jones, PhD, 303-724-3995. Course Coordinator, MaryLou Wallace, 303-724-3994.

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

**MEDS 8100 MED Elective Away** **2 or 4 wks**

Course Director, Eva Aagaard, M.D. Course Coordinator, Kathy Werfelmann, 303-724-1798.

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

Course is Pass/Fail only.

**MEDS 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.

**MEDS 8601 [Intro Biomed Research](#)**

**[2 or 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.

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

**[2, 4, 6, or 8 wks](#)**

Course Director Eva Aagaard, M.D., 303-724-1790. Course Coordinator, Kathy Werfelmann, 303-724-1798.

Restrictions: This course is available on a pass/fail basis only.

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

<b>NEUROLOGY ELECTIVES</b>
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**NEUR 8000 [Neurology](#)**

**[4 wks](#)**

**[Max: 3](#)**

Course Director, Chantal M. O'Brien, MD. Course Coordinator, Rachele 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 [NEUR Elective Away](#)**

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

Course Director, Chantal M. O'Brien, MD. Course Coordinator, Rachele Waller, 303-724-4589.

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

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

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

Course Director, Chantal M. O'Brien, MD. Course Coordinator, Rachele Waller, 303-724-4589.

Prerequisite: Offered with Chairman's approval only. The student must receive approval from the Associate Dean for Student Affairs.

Opportunities for research elective with neurology faculty performing basic or clinical research in the Department of Neurology (faculty research synopses at <http://www.uchsc.edu/sm>)

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

**[2, 4, 6, or 8 wks](#)**

Course Director, Chantal M. O'Brien, MD. Course Coordinator, Rachele Waller, 303-724-4589.

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

<b>NEUROSURGERY ELECTIVES</b>
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**NSUR 8014 [Neurosurgery Sub I](#)**

**[2,4, or 6 wks](#)**

**[Max: 8](#)**

Course Director, Michael Handler, M.D., 720-777-6100. Course Coordinator, Krystin Hasenbalg, 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.

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

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

Course Director, Michael Handler, MD, 720-777-6100. Course Coordinator, Krystin Hasenbalg, 303-724-2302.

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

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

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

Course Director, Michael Handler, M.D. Course Coordinator, Krystin Hasenbalg, 303-724-2302

Prerequisites: Departmental approval must be obtained and all arrangements made at least one month in advance.  
A written evaluation must be sent to Dr. Michael Handler and Krystin Hasenbalg .

**NSUR 8630 NSUR Research Away 2, 4, 6, or 8 wks**

Course Director, Michael Handler, MD, 720-777-6100. Course Coordinator, Krystin Hasenbalg , 303-724-2302.

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

<b>OBSTETRICS AND GYNECOLOGY ELECTIVES</b>
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**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 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.

**OBYG 8012 UH Gyn Sub-Internship 4 wks Max: 1**

Course Director, Kristina Tocce, M.D., Course Coordinator, Bethany Andrews, 303-724-2031.

Prerequisites: Passing grade in third year Women and Newborns Rotation (IDPT 7030).

**"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 8013 DHMC OB/GYN Outpatient 4 wks Max: 1**

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

Prerequisites: Successful completion of 3<sup>rd</sup> year core clerkships, including OBGYN clerkship.

This course allows for career exploration and broadening of knowledge in OB/GYN from an outpatient perspective. Students are expected to participate in all aspects of the outpatient service, including specialty clinics and taking 1 call night on L&D.

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

Course Director, Lorraine Dugoff, MD. Course Coordinator, Bethany Andrews, 303-724-2031.

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

**OBGY 8600 Research in OBGYN 2 – 12 wks**

Course Director, Lorraine Dugoff, MD. 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 OBGY Research Away 2, 4, 6, or 8 wks**

Course Director, Lorraine Dugoff, MD. Course Coordinator, Bethany Andrews, 303-724-2031.

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

**OPHTHALMOLOGY ELECTIVIES**

**OPHT 8000 Ophthalmology 4 wks Max: 1**

Course Director, Richard Davidson, MD. 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 OPHT Elective Away 2 or 4 wks**

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

Prerequisites: Departmental approval required to register.

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

**OPHT 8600 Research Ophthalmology 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 OPHT Research Away 2, 4, 6, or 8 wks**

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

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

**ORTHOPEDIC ELECTIVIES**

**ORTH 8000 Orthopaedic Surgery 4 wks Max: 6**

Course Director, Frank Scott, MD, 720-848-0485. 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 Max: 4**

Course Director, Frank Scott, MD, 720-848-0485. 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**

**Max: 1**

Course Directors, Frank Scott, MD, 720-848-0485 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 ORTH Elective Away**

**2 or 4 wks**

Course Director, Frank Scott, MD, 720-848-0485. Course Coordinator, Mariama Sannoh, 303-724-2974.

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

**ORTH 8600 Research in Orthopedics**

**4 - 12 wks**

Course Director, Frank Scott, MD, 720-848-0485. 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 ORTH Research Away**

**2, 4, 6, or 8 wks**

Course Director, Frank Scott, MD, 720-848-0485. Course Coordinator, Mariama Sannoh, 303-724-2974.

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

**OTOLARYNGOLOGY ELECTIVES**

**OTOL 8000 Clinical Otolaryngology**

**2, 4, or 6 wks**

**Max: 3**

Course Director, Patricia Yoon, M.D., 720-777-4779. Course Coordinator, Darci Dreiling, 303-724-1965.

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

**OTOL 8100 OTOL Elective Away**

**2 or 4 wks**

Course Director, Patricia Yoon, M.D., 720-777-4779. Course Coordinator, Darci Dreiling, 303-724-1965.

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

**OTOL 8600 Research Otolaryngology**

**4 - 12 wks**

Course Director, Katie Rennie, Ph.D., 303-724-3070. Course Coordinator, Darci Dreiling, 303-724-1965.

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 OTOL Research Away**

**2, 4, 6, or 8 wks**

Course Director, Katie Rennie, Ph.D., 303-724-3070. Course Coordinator, Darci Dreiling, 303-724-1965.

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

**PATHOLOGY ELECTIVES**

**PATH 8000 Pathology**

**4, 6 or 12 wks**

**Max: 2**

Course Director, Robert Low, MD, 303-724-4307. Course Coordinator, Jamie Kean, 303-724-3905.

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

**PATH 8001 Laboratory Medicine**

**4 wks**

**Max: 30**

Course Director, Mary Berg, M.D., Course Coordinator, Jamie Kean, 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, Robert Low, MD, 303-724-4307. Course Coordinator, Jamie Kean, 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 PATH Elective Away** **2 or 4 wks**

Course Director, Robert Low, MD, 303-724-4307. Course Coordinator, Jamie Kean, 303-724-3905.

Prerequisites: A full written course description from the course director at outside institution is required.

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

**PATH 8600 Research in Pathology** **2 - 12 wks**

Prerequisites: Department approval must be obtained and all arrangements made at least one month in advance. The student must also receive approval from the Associate Dean for Student Affairs.

**Path 8630 PATH Research Away** **2, 4, 6, or 8 wks**

Course Director, Robert Low, MD, 303-724-4307. Course Coordinator, Jamie Kean, 303-724-3905.

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

**PEDIATRIC ELECTIVES**

**PEDS 8000 Pediatric Subinternship** **4 wks** **Max: 3**

Course Directors, Adam Rosenberg, 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.

**PEDS 8004 Pediatric Cardiology** **4 wks** **Max: 1**

Course Directors, Michael Schaffer, 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.

**PEDS 8006 Immunology and Allergy** **4 wks** **Max: 2**

Course Directors, Donald Leung, 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.

**PEDS 8007 Child Abuse and Neglect** **4 wks** **Max: 1**

Course Directors, Andrew Sirotnak, M.D. Course Coordinator, Michael Baca, 720-777-4804.

Restrictions: not available sections 21-24.

Held at TCH and Kempe Center. Basic principles of Child Abuse and Neglect; participate in team evaluation of outpatient and inpatient child abuse cases, and attend court with team members. Primarily observational and includes independent study. One case write-up required.

**PEDS 8008 Birth Defects/ Genetics** **4, 6, 8, or 12 wks** **Max: 1**

Course Directors, Anne Tsai, M.D. Course Coordinator, Michael Baca, 720-777-4804.

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

**PEDS 8009 Peds Infectious Disease** **4 wks** **Max: 1**

Course Directors, Mary Glode, M.D. Course Coordinator, Michael Baca, 720-777-4804.

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

**PEDS 8011 Peds Pulmonary Disease** **4 or 6 wks** **Max: 1**

Course Directors, Gwen Kerby, M.D. Course Coordinator, Michael Baca, 720-777-4804.

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

**PEDS 8012 [Pediatric Neurology](#)** **[4, 6, or 12 wks](#)** **[Max: 1](#)**  
Course Directors, Julie Parsons, M.D. Course Coordinator, Michael Baca, 720-777-4804. Child Neurology provides students with the opportunity to gain experience evaluating children with a wide variety of neurological problems. Students will round on hospital and clinic patients, complete assigned readings and attend Neurology grand rounds.

**PEDS 8013 [Pediatric Endocrinology](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Michael Kappy, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
A large variety of patients with abnormalities of growth and pubertal development, thyroid disorders, and diabetes mellitus are reviewed and treated each week. Seminars on selected topics are scheduled three times per week.

**PEDS 8015 [Peds Neonatology Sub I](#)** **[4 wks](#)** **[Max: 3](#)**  
Co-Course Directors, Elizabeth Thilo, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
"This course can meet Sub-I qualifications."  
Student assigned to UCH, DHMC, or TCH and will participate actively in the care of critically-ill infants including work rounds, attending rounds, conferences and night call. Experience will be gained in procedures and ventilator management.

**PEDS 8017 [Ped Emergency Med DHMC](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Jody Maes, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
A challenging and well-rounded clinical experience in an urban emergency department, focusing on care of children. Students will learn how to care for sick and injured children. Spanish language skills are a plus. Some evening and weekend shifts are required.

**PEDS 8018 [General Academic Peds](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, David Fox, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
This course offers exciting experience in ambulatory pediatrics at The Children's Hospital. There are 9 educational conferences per week. No night call.

**PEDS 8020 [Adolescent Medicine](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Paritosh Kaul, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
Provides basic knowledge and clinical skills in diagnosis and management of medical problems during adolescence. Including development of skills in interviewing and counseling adolescents in various health care settings. Students will prepare and present a seminar/case discussion on this topic.

**PEDS 8022 [Peds Gastroenterology](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Edward Hoffenberg, M.D. Course Coordinator, Michael Baca, 720-777-4804.  
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.

**PEDS 8024 [Child Development/Behavi](#)** **[2 or 4 wks](#)** **[Max: 1](#)**  
Course Directors, Ann Reynolds, 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.

**PEDS 8025 [Peds Emergency Medicine](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Tien Vu, 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.

**PEDS 8026 [Pediatric Nephrology](#)** **[4 wks](#)** **[Max: 1](#)**  
Course Directors, Gary Lum, 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.

**PEDS 8027 [Pediatric Intensive Care](#)** **[4 wks.](#)** **[Max: 1](#)**  
Course Directors, Emily Dobyms, M.D., 303-724-2387 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.

**PEDS 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](mailto:Laura.Primak@uchsc.edu).

**PEDS 8030 [Vaccination in Pediatrics](#) [4 wks](#) [Max: 2](#)**

Course Director, Robert Brayden, MD, 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.

**PEDS 8031 [Pediatric Hem/Onc](#) [4 wks](#) [Max: 1](#)**

Course Director, Timothy Garrington, MD, Course Coordinator, Michael Baca, 720-777-4804.

Students will participate in the clinical activities of the Pediatric Hematology-Oncology Service, both inpatient and outpatient. They will be involved in patient care, perform procedures including lumbar punctures and bone marrow aspirates/biopsies, and attend relevant conferences.

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

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

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

**PEDS 8600 [Research in Pediatrics](#) [2 – 12 wks](#)**

Course Director, Jennifer Soep, MD, 720-777-4804. 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 Associate Dean for Student Affairs also required.

**PEDS 8630 [PEDS Research Away](#) [2, 4, 6, or 8 wks](#)**

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

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

<b>PHYSICAL MEDICINE AND REHABILITATION ELECTIVES</b>
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**PHMD 8000 [Physical Med & Rehab](#) [4 wks](#) [Max: 4](#)**

Course Director, Matthew Godleski, M.D. Course Coordinator, Sarah E. Manning, 303-724-1263.

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

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

Course Director, Matthew Godleski, MD, 720-848-7924. Course Coordinator, Sarah E. Manning, 303-724-1263.

Prerequisite: PHMD 8000.

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

**PHMD 8600 [Research Physical Med](#) [2 - 12 wks](#)**

Course Director, Matthew Godleski, M.D. Course Coordinator, Sarah E. Manning, 303-724-1263.

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

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

**PHMD 8630 [PHMD Research Away](#) [2, 4, 6, or 8 wks](#)**

Course Director, Matthew Godleski, MD, 720-848-7924. Course Coordinator, Sarah E. Manning, 303-724-1263.

Prerequisite: PHMD 8000.

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

## PREVENTIVE MEDICINE ELECTIVES

### **PRMD 8003 Specialty Preventive Med**

**4 - 8 wks**

**Max: 4**

Course Director, Tim Byers, 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 PRMD Elective Away**

**2 or 4 wks**

Course Director, Tim Byers, M.D., M.P.H., 303-724-1283.

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

### **PRMD 8600 Research Preventive Med**

**4 - 12 wks**

Course Director, Tim Byers, M.D., M.P.H., 303-724-1283.

Prerequisites: Course Director and Associate Dean of Student Affairs approval required to add course.

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

### **PRMD 8630 PRMD Research Away**

**2, 4, 6, or 8 wks**

Course Director, Tim Byers, M.D., M.P.H., 303-724-1283.

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

## PSYCHIATRY ELECTIVES

### **PSYM 8000 Sub I in Psychiatry**

**4 - 6 wks**

**Max: 3**

Course Director, Michael Weissberg, M.D.; Associate Course Director, Robert Davies, M.D. Course Coordinator, Jennifer White, 303-724-7401. Three weeks before beginning, contact Jennifer White, at 303-724-7401.

**"This course can be designed to meet Sub-I qualifications."**

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

### **PSYM 8001 "Big Six" Substance Prob**

**2 - 4 wks**

**Max: 2**

Course Director, Thomas J. Crowley, M.D. Course Coordinator, Elisa Upwood, ext. 303-724-3183.

Prerequisites: Course Director approval required to add course.

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

### **PSYM 8002 Neuropsychiatry Elective**

**4 wks**

Course Director, David Arciniegas, MD. Course Coordinator, Jennifer White, 303-724-7401.

Prerequisites: IDPT 7040, IDPT 7041, PSYM 8000.

Behavioral Neurology & Neuropsychiatry Elective. The goal is to provide the student with exposure to physicians practicing as subspecialists in BN&NP, the clinical populations they serve, and a variety of clinical settings in which they practice. For more information [www.medschool](http://www.medschool).

### **PSYM 8100 PSYM Elective Away**

**2 or 4 wks**

Course Director, Michael Weissberg, MD. Course Coordinator, Jennifer White, 303-724-7401.

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

**PSYM 8600 [Research in Psychiatry](#)**

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

Course Director, Michael Weissberg, M.D.; Associate Course Director, Robert Davies, M.D. Course Coordinator, Jennifer White, 303-724-7401.

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

Research electives in various areas of Psychiatry. Contact Randy Ross, MD or Sharon Hunter, PHD for menu of research options.

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

**[2, 4, 6, or 8 wks](#)**

Course Director, Michael Weissberg, MD, Course Coordinator, Jennifer White, 303-724-7401.

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

<b>RADIOLOGY ELECTIVES</b>
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**RADI 8000 [Diagnostic Radiology](#)**

**[4 wks](#)**

**[Max: 5](#)**

Course Director, James Davidson, MD, 720-848-4663. Course Coordinator, Pamela Goens, 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.

**RADI 8002 [Nuclear Medicine](#)**

**[4 wks](#)**

**[Max: 2](#)**

Course Director, Adrienne Sagel-el, MD, 303-266-0117. Course Coordinator, Pamela Goens, 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.

**RADI 8007 [Interventional Radiology](#)**

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

**[Max: 1](#)**

Course Director, Kimi Kondo, DO, 303-724-1981. Course Coordinator, Pamela Goens, 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.

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

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

Course Director, Kimi Kondo, DO, 303-724-1980. Course Coordinator, Pamela Goens, 303-724-1981.

Prerequisites: For rotation approval, students must first provide name, address, and phone number of preceptor to the course director. **Students maintain sole responsibility for obtaining written evaluation.**

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

**RADI 8600 [Research in Radiology](#)**

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

Course Director, Kimi Kondo, DO, 720-848-6568. Course Coordinator, Pamela Goens, 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.

Student must submit a research project description and the name of their preceptor to the course director prior to the start of the elective. Student is responsible for obtaining written evaluation. 2 week rotation not Honors eligible.

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

**[2, 4, 6, or 8 wks](#)**

Course Director, Kimi Kondo, DO, 720-848-6568. Course Coordinator, Pamela Goens, 303-724-1981.

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

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

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

**[Max: 2](#)**

Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.

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

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

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

Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.

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

**RAON 8600 Research RAD Oncology 4 - 12 wks**

Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.

Prerequisite: RAON 8005. Departmental and Associate Dean of Student Affairs approval must be obtained and all arrangements made one semester in advance.

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

**RAON 8630 RAON Research Away 2, 4, 6, or 8 wks**

Course Director, Arthur Liu, MD, 720-848-0153. Course Coordinator, Collette Cielens, 720-848-0156.

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

<b>SURGERY ELECTIVES</b>
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**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 Fray, 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**

Course Director, Carlton Barnett, M.D., 303-436-5402. Course Coordinator, Jean Roark, 303-436-6575.

**"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."**

Held at St. Joseph Hospital with emergency and elective surgery. Emphasize pre- and postoperative care. Graduated operating room experience. Housestaff team assignments. Active daily conferences, including M and M, with radiologic and pathologic collation.

**SURG 8008 Cardiothoracic 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, Mindi Pyles, 303-724-2792.

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

**SURG 8012 Urology Subinternship 4 wks Max: 4**

Course Director, Randall Meacham, MD. 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, Sandra Floyd, 720-777-5506 at TCH.

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

**SURG 8019 Plastic Surgery 4 wks Max: 1**

Course Director, Mickey Gordon, MD. Course Coordinator, Mindi Pyles, 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 8030 Clinical Transplantation 2 or 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 8100 SURG Elective Away 2 or 4 wks**

Course Director, Thomas A. Whitehill, M.D., 303-724-2863. Course Coordinator, Janice Frary, 303-724-2681.

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

**SURG 8600 Research in Surgery 2 - 12 wks**

Course Director, Thomas A. Whitehill, M.D., 303-724-2863. Course Coordinator, Janice Frary, 303-724-2681.

Students must obtain departmental approval one month prior to the start. Additionally, internationally sites must be preapproved by Student Affairs

**SURG 8630 SURG Research Away 2, 4, 6, or 8 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.

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