### Anesthesiology

**ANES8000 Clinical Anesthesiology**

<table>
<thead>
<tr>
<th>Coordinator:</th>
<th>Krystle Wetherbee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="mailto:krystle.wetherbee@ucdenver.edu">krystle.wetherbee@ucdenver.edu</a></td>
</tr>
<tr>
<td><strong>Course Director:</strong></td>
<td>Bryan Ahlgren</td>
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<tr>
<td></td>
<td><a href="mailto:bryan.ahlgren@ucdenver.edu">bryan.ahlgren@ucdenver.edu</a></td>
</tr>
</tbody>
</table>

- **Duration:** 2 or 4 weeks
- **Semester Offered:** Summer; Fall; Spring
- **Sections Available:** Available in all sections
- **Semester 2-Week Offered:** All
- **Course Format:** Clinical
- **Location:** CHCO, DHMC
- **Grading:** Honor/High Pass or Pass/Fail (<4 wks)
- **Enrollment:** Min: 1, Max: 4

**Description:** Students will work one-on-one with anesthesia faculty and residents to gain further practical experience in all aspects of peri-operative care; improving skills gained in the third year and developing a deeper understanding of the breadth of anesthetic practice. Course is completed at Children's Hospital Colorado and Denver Health.

**Course Activities:** Students will be expected to perform pre-operative assessment, formulate basic anesthetic plan, and see that plan carried out through the peri-operative period. Students will be under direct supervision by Anesthesiology residents as well as Faculty attendings.

**Restrictions:**

**Prerequisites:**

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**Coordinator:**

**Course Director:**

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Honor/High Pass or Pass/Fail (<4 wks)

**Enrollment:** Min: 1, Max: 4

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**Additional Information:**
ANES8001 Surgery Intensive Care Sub-I

Coordinator: Krystle Wetherbee

Course Director: Fareed Azam

Sub-I: Yes
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1 Max: 3
Prerequisites: Contact Dr. Azam via email Friday prior to starting (fareedul.azam@ucdenver.edu) for orientation information.

Description: The goal is to prepare MSIV's for internship by having them manage ‘their’ patients, present on multidisciplinary rounds, call consults, assist/performing procedures, discuss clinical topics & receive didactics. Honors requires clinical excellence and a written paper.

Course Activities: During the Sub-Internship in Surgical Critical Care at the University of Colorado, students are expected to advance their knowledge, skills and attitudes needed to provide perioperative care for critically ill adult surgical patients. It is expected that students will function more independently during their sub-internship than they did during their Phase 3 training. By the completion of the rotation, the sub-intern should be able to function at or near the level of an intern with respect to the objectives of the rotation. In general, the sub-intern will move beyond the observation and participation phase and into the role of the primary provider.

ANES8002 ANES Subspecialties

Coordinator: Krystle Wetherbee

Course Director: Bryan Ahlgren

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass or Pass/Fail (<4 wks)
Enrollment: Min: 1 Max: 4
Prerequisites: Additional Information: Course exposes students to subspecialty areas in Anesthesiology. Students will attain additional experience in selected areas of anesthetic practice. Options include Acute and Chronic Pain, L&D, Cardiothoracic, Neurosurgery, Transplant and General OR.

Description: Students will be expected to perform pre-operative assessment, formulate basic anesthetic plan, and see that plan carried out through the peri-operative period. Students will be under direct supervision by Anesthesiology residents as well as Faculty attendings.
**ANES8100 ANES Elective Away**

**Coordinator:**  
Krystle Wetherbee  
krystle.wetherbee@ucdenver.edu

**Course Director:**  
Bryan Ahlgren  
bryan.ahlgren@ucdenver.edu

**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 0  Max: 99  
**Prerequisites:**  
**Restrictions:**

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

**Course Activities:**  
Activities will vary based on the away site of choice

**ANES8600 Research Anesthesiology**

**Coordinator:**  
Krystle Wetherbee  
krystle.wetherbee@ucdenver.edu

**Course Director:**  
Paul Wischmeyer  
paul.wischmeyer@ucdenver.edu

**Duration:** 2, 4, 8 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 0  Max: 99  
**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.  
**Restrictions:**

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

**Course Activities:**  
Scholarly research. Specific activities created by the student and mentor based on the project.
**ANES8630  ANES Research Away**

**Description:** 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, international sites must be approved by Student Affairs.

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.

**Duration:** 2, 4, 8 weeks

**Coordinator:** Krystle Wetherbee  
[krystle.wetherbee@ucdenver.edu](mailto:krystle.wetherbee@ucdenver.edu)

**Course Director:** Paul Wischmeyer  
[paul.wischmeyer@ucdenver.edu](mailto:paul.wischmeyer@ucdenver.edu)

**Semester Offered:** Summer; Fall; Spring

**Sections Available:** Available in all sections

**Semester 2-Week Offered:** All

**Course Format:** Research/Scholarly Activity

**Location:** Away

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 0 Max: 99

**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

**Sub-I:** No

**Longitudinal Course:** No

**Additional Information:**

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**Remarks:**

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Dermatology

DERM8000  Dermatology Clinical Elective

Description: 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.

Course Activities: Students will spend 2 week rotation a majority of time at the VA hospital for active involvement in clinics and learn to perform common dermatologic procedures. They will have a more in depth exposure to other areas of dermatology including dermatopathology, pediatric dermatology, and Mohs surgery. Students will give a power point presentation on a topic of their choice and two homework assignments per week.

Coordinator: Amina Hashem
amina.hashem@ucdenver.edu

Course Director: Cory Dunnick
cory.dunnick@ucdenver.edu

Duration: 2 weeks
Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 1  Max: 2
Prerequisites:
Restrictions: Two week rotations only
Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Clinical
Location:
Additional Information:

DERM8001  Dermatology Clerkship

Description: 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.

Course Activities: Students will rotate through subspecialty clinics including pediatrics, adults, surgery and more. Much time will be spent at the Denver VAMC where there are many opportunities to participate in supervised procedures including cryosurgery, biopsies, excisions and consultations.

Coordinator: Amina Hashem
amina.hashem@ucdenver.edu

Course Director: Cory Dunnick
cory.dunnick@ucdenver.edu

Duration: 4 weeks
Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1  Max: 4
Prerequisites:
Restrictions: 4 week rotations only
Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Clinical
Location:
Additional Information:

Prerequisites:
Restrictions:
Location:
Additional Information:
**DERM8300  DERM Elective Away**

**Coordinator:** Amina Hashem  
amina.hashem@ucdenver.edu

**Duration:** 2 or 4 weeks

**Course Director:** Cory Dunnick  
cory.dunnick@ucdenver.edu

- **Sub-I:** No
- **Longitudinal Course:** No
- **Approval Required:** Yes
- **Grading:** Pass/Fail
- **Enrollment:** Min: 0  Max: 99
- **Prerequisites:** Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

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

**Course Activities:** Activities will vary based on the away site of choice

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**DERM8600  Research in Dermatology**

**Coordinator:** Amina Hashem  
amina.hashem@ucdenver.edu

**Duration:** 2, 4, 8 or 12 weeks

**Course Director:** Cory Dunnick  
cory.dunnick@ucdenver.edu

- **Sub-I:** No
- **Longitudinal Course:** No
- **Approval Required:** Yes
- **Grading:** Pass/Fail
- **Enrollment:** Min: 0  Max: 99
- **Prerequisites:** Individual arrangements must be obtained then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

**Description:** 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.

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.
Description: This research elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Affairs, and there may be additional requirements for these.

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.
EMED8004  Emergency Med Univ Hosp

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

Course Activities: Patient Care: Students will gain familiarity with the unique approach to the emergency patient, the evaluation of the acutely ill and injured, and the concepts of resuscitation, which will be beneficial in any clinical setting.

Course Director: Bonnie Kaplan
bonnie.kaplan@ucdenver.edu

Coordinator: Marybeth Hutchins
marybeth.hutchins@ucdenver.edu

Duration: 2 or 4 weeks

Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass or Pass/Fail (<4 wks)
Enrollment: Min: 0 Max: 4
Prerequisites: 
Restrictions: 

Semester Offered: Spring
Sections Available: Available Sections 33-48
Course Format: Clinical
Location: UCH

EMED8005  Emergency Medicine DHMC

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

Course Activities: Patient Care: Students will gain familiarity with the unique approach to the emergency patient, the evaluation of the acutely ill and injured, and the concepts of resuscitation, which will be beneficial in any clinical setting.

Course Director: David Richards
david.richards@dhha.org

Coordinator: Marie Bluitt
marie.bluitt@dhha.org

Duration: 4 weeks

Longitudinal Course: No
Approval Required: No
Grading: Honor/Pass
Enrollment: Min: 1 Max: 4
Prerequisites: 
Restrictions: 

Semester Offered: Spring
Sections Available: Available Sections 33-50
Course Format: Clinical
Location: DHMC

Additional Information:
EMED8006 Emer Med Career Elective

Coordinator: Marie Bluitt
marie.bluitt@dhha.org

Course Director: Bonnie Kaplan
bonnie.kaplan@ucdenver.edu

Duration: 4 weeks

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

Course Activities: Patient Care: Students will gain familiarity with the unique approach to the emergency patient, the evaluation of the acutely ill and injured, and the concepts of resuscitation, which will be beneficial in any clinical setting.

EMED8007 Crit Care & Procedures

Coordinator: Helen Gurnee
helen.gurnee@ucdenver.edu

Course Director: Matt Rustici
matthew.rustici@ucdenver.edu

Duration: 2 weeks

Description: Students will participate in an intensive 2 week elective with performance-based, hands-on training in four procedural skill areas: airway management, laceration repair, fluid sampling, and vascular access. Students will also complete training in management of critically ill patients using procedural skills and simulated patients.
EMED8017  PELS Emergency DHMC  Duration:  2 or 4 weeks
Coordinator: Marie Bluitt  Course Director: David Richards
marie.bluitt@dhha.org  david.richards@dhha.org
Sub-J: No  Semester Offered: Summer;Fall;Spring
Longitudinal Course: No  Sections Available: Available in all sections
Approval Required: Yes  Semester 2-Week Offered: All
Grading: Honor/High Pass or Pass/Fail (<4 wks)  Course Format: Clinical
Enrollment: Min: 1 Max: 2  Location:
Prerequisites: Department approval must be obtained Additional Information: Experience at Denver Health Medical and then approval by the Associate Dean Center. See PELS 8025 for experience at for Student Affairs.
Children's Hospital Colorado.

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

Description: Patient Care: Students will gain familiarity with the unique approach to the emergency patient, the evaluation of the acutely ill and injured, and the concepts of resuscitation, which will be beneficial in any clinical setting.

EMED8024  Clinical Toxicology  Duration:  4 weeks
Coordinator: Darlene Vigil  Course Director: Chris Hoyte
darlene.vigil@rmpdc.org  christopher.hoyte@ucdenver.edu
Sub-I: No  Semester Offered: Summer;Fall;Spring
Longitudinal Course: No  Sections Available: Available in all sections
Approval Required: No  Semester 2-Week Offered: 
Grading: Pass/Fail  Course Format: Clinical
Enrollment: Min: 1 Max: 2  Location:
Prerequisites:

Restrictions: Introduction to Medical Toxicology at Rocky Mountain Poison and Drug Center. Participation in Clinical service, inpatient consultative care at DHMC/UH. Conferences and didactic instruction provided weekly. Short presentations required. Exposed to fundamentals of environmental toxicology, public health concerns, occupational toxicology.

Description: Students attend lectures and rounds every day. Student prepare a 10-20 minute presentation on a specific topic in toxicology. The topics must be pre-approved by one of the fellows or the attending. Students complete a 2 hour observation at Poison Center – listening in on calls with Poison Center nurse. Students also have chapter reviews and self-learning modules -- http://rmpdc.org/ResourceForResidentsandStudents.aspx. Students may assist in research activities. Taking call with the fellow is optional.

Course Activities: Students attend lectures and rounds every day. Student prepare a 10-20 minute presentation on a specific topic in toxicology. The topics must be pre-approved by one of the fellows or the attending. Students complete a 2 hour observation at Poison Center – listening in on calls with Poison Center nurse. Students also have chapter reviews and self-learning modules -- http://rmpdc.org/ResourceForResidentsandStudents.aspx. Students may assist in research activities. Taking call with the fellow is optional.

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EMED8030 Rural Emergency Medicine

Description: A continuation of the Emergency Care Clerkship, currently a two-week required component of Phase III study. This course is for students who seek more in-depth knowledge and additional clinical skills, relating to Emergency Care in the rural setting. For housing: http://ahec.ucdenver.edu/finaid/

Course Activities: Clinical practice in a rural EM setting

Duration: 2 or 4 weeks

Coordinator: Marybeth Hutchins
marybeth.hutchins@ucdenver.edu

Course Director: Jeffrey Druck
jeffrey.druck@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 0 Max: 10
Prerequisites: Department approval must be obtained and then approval by the Associate Dean for Student Affairs.

Restrictions:

EMED8031 Wilderness Medicine

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

Course Activities: Practice disaster triage, searching with avalanche beacons, practice building transports for patients in remote settings, and discuss case scenarios covering all wilderness medicine topics.

Duration: 2 weeks

Coordinator: Cathy Maciel
cathy.maciel@ucdenver.edu

Course Director: Barbara Blok
barbara.blok@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 15 Max: 26
Prerequisites: but Intro to Wilderness Medicine (EMED 6624) suggested.

Restrictions: Additional fee required.

Additional Information:

Min: Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 15 Max: 26
Prerequisites: but Intro to Wilderness Medicine (EMED 6624) suggested.

Restrictions: Additional fee required.

Section 47 only

Course Format: Clinical
Location: Away

Sections Available: Available Section 47 only
Semester 2-Week Offered: Spring
Course Format: Clinical
Location: Away

Restrictions: Additional fee required.

Additional Information:

Min: Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 15 Max: 26
Prerequisites: but Intro to Wilderness Medicine (EMED 6624) suggested.

Restrictions: Additional fee required.
### EMED8100  EMED Elective Away

**Duration:** 2 or 4 weeks

**Coordinator:** Marybeth Hutchins  
[marybeth.hutchins@ucdenver.edu](mailto:marybeth.hutchins@ucdenver.edu)

**Course Director:** Jeffrey Druck  
[jeffrey.druck@ucdenver.edu](mailto:jeffrey.druck@ucdenver.edu)

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

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<td>Prerequisites</td>
<td>Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.</td>
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</table>

**Restrictions:**

### EMED8600  Research in EMED

**Duration:** 2, 4, 8 or 12 weeks

**Coordinator:** Meggan Schmidt  
[meggan.schmidt@dhha.org](mailto:meggan.schmidt@dhha.org)

**Course Director:** Jason Haukoos  
[jason.haukoos@dhha.org](mailto:jason.haukoos@dhha.org)

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

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</table>

**Restrictions:**

| Course Activities | Scholarly research. Specific activities created by the student and mentor based on the project. |
### EMED Research Away

**Coordinator:** Marybeth Hutchins  
*marybeth.hutchins@ucdenver.edu*

**Course Director:** Jeffrey Druck  
*jeffrey.druck@ucdenver.edu*

**Duration:** 2, 4, 8 weeks

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<tr>
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<td>Enrollment</td>
<td>Min: 1 Max: 150</td>
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**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

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

**Course Activities:** Act as part of a research team at an outside institution.

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<thead>
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<th>Semester Offered</th>
<th>Summer; Fall; Spring</th>
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<tr>
<td>Sections Available</td>
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<tr>
<td>Semester 2-Week Offered</td>
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**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1 Max: 150

**Semester Offered:** Summer; Fall; Spring

**Sections Available:** Available in all sections

**Semester 2-Week Offered:** All

**Course Format:** Research/Scholarly Activity

**Location:** Away

**Additional Information:**

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1 Max: 150

**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

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

**Course Activities:** Act as part of a research team at an outside institution.
**Family Medicine**

<table>
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<th>Course Title</th>
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<td>FMMD8002</td>
<td>Fam Med Univ Hosp Sub-I</td>
<td>4 weeks</td>
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<tr>
<td></td>
<td><strong>Coordinator:</strong> Lisa Martinez</td>
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<tr>
<td></td>
<td><strong>Course Director:</strong> Kathryn Boyd-Trull</td>
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<tr>
<td></td>
<td><strong>Email:</strong> <a href="mailto:lisa.p.martinez@ucdenver.edu">lisa.p.martinez@ucdenver.edu</a></td>
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<tr>
<td></td>
<td><strong>Email:</strong> <a href="mailto:kathryn.boyd-trull@ucdenver.edu">kathryn.boyd-trull@ucdenver.edu</a></td>
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<td><strong>Sub-I:</strong> Yes</td>
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<td><strong>Restrictions:</strong></td>
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<td><strong>Description:</strong> Experience CU Family Medicine! Students will be members of the inpatient service team at the Anschutz Inpatient Pavilion, take call, and have the option of spending two half days at the A.F. Williams Family Medicine Center (outpatient clinic).</td>
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<td><strong>Course Activities:</strong> As a Sub-Intern students will engage in all patient care and medical team responsibilities and activities that at the level of an acting intern.</td>
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<td>Out-Patient Family Med</td>
<td>4 weeks</td>
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<td><strong>Coordinator:</strong> Lisa Martinez</td>
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<td><strong>Course Director:</strong> Caroline LeClair</td>
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<tr>
<td></td>
<td><strong>Email:</strong> <a href="mailto:lisa.p.martinez@ucdenver.edu">lisa.p.martinez@ucdenver.edu</a></td>
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<tr>
<td></td>
<td><strong>Email:</strong> <a href="mailto:caroline.leclair@ucdenver.edu">caroline.leclair@ucdenver.edu</a></td>
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<td><strong>Sub-I:</strong> No</td>
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<td><strong>Description:</strong> This course includes 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 care for a diverse group of patients.</td>
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<td><strong>Course Activities:</strong> Students will engage in all patient care and team responsibilities and activities in the care of patients at AF Williams</td>
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</table>
**FMMD8008  Occup/Envir Med In FM**

**Description:** 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 based on their availability.

**Course Activities:** Work with Family Medicine Doctors for exposure and education about work related conditions and illnesses.

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**FMMD8012  Oral Health:Acute Dental**

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

**Course Activities:**
- Online self-study materials
- Textbook of regional anesthesia
- Participation in dental acute care clinic
- Night/weekend call for acute oral problems with dental residents and faculty

---

**Coordinator:** Steven Cruse  
**Course Director:** Julie Paranka  
**Duration:** 2 or 4 weeks  
**steven.cruse@ucdenver.edu**  
**julie.paranka@ucdenver.edu**

**Approval Required:** Yes  
**Sections Available:** Available in all sections  
**Semester Offered:** Summer;Fall;Spring  
**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:**  
**Prerequisites:** Course director approval required to add this elective as it depends on occupational physician availability.

**Restrictions:** Course offered only at selected times. Contact Dr. Deutchman to schedule.

**Coordinator:** Melanie DeHerrera  
**Course Director:** Mark Deutchman  
**Duration:** 2 weeks  
**melanie.deherrera@ucdenver.edu**  
**mark.deutchman@ucdenver.edu**

**Approval Required:** Yes  
**Sections Available:** Available in all sections  
**Semester Offered:** Summer;Fall;Spring  
**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:** SOM  
**Additional Information:** Students work at University School of Dental Medicine

**Restrictions:**
FMMD8014  PCMH: Concept & Practice

Coordinator: Steven Cruse  
steven.cruse@ucdenver.edu

Course Director: Scott Hammond  
rsh.wmc@gmail.com

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

Course Activities: Exposure and education about the Patient Centered Medical Home and how it improves patient care and how to implement it in a working medical practice.

FMMD8016  Colorado FMRs Sub-I

Coordinator: Steven Cruse  
steven.cruse@ucdenver.edu

Course Director: Julie Paranka  
 julie.paranka@ucdenver.edu

Description: Sub-Internship level experience in managing inpatient problems common to Family Medicine hospital services at any of the eight ACGME accredited Colorado FM Residency Programs.

Course Activities: As a Sub-Intern students will engage in all patient care and team responsibilities and activities that at the level of an Acting Intern.
**FMMD8100**  
**FMMD Elective Away**

**Coordinator:** Steven Cruse  
steven.cruse@ucdenver.edu

**Course Director:** Julie Paranka  
julie.paranka@ucdenver.edu

**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  
Max: 99

**Prerequisites:** Department approval must be obtained, then approval by the Assistant Dean for Student Life. Arrangements must be completed at least one month in advance of start. Site training agreement must be in place.

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

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

**Course Activities:** Participate in patient care at a Family Medicine clinic and/or inpatient unit at the level of a Phase Four Medical Student.

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**FMMD8400**  
**International FM**

**Coordinator:** Steven Cruse  
steven.cruse@ucdenver.edu

**Course Director:** Julie Paranka  
julie.paranka@ucdenver.edu

**Duration:** 4, 8 or 12 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  
Max: 99

**Prerequisites:** Department approval must be obtained, then approval by the Assistant Dean for Student Life. Arrangements must be completed at least one month in advance of start.

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

**Description:** Management of Family Medicine problems common to countries outside of the United States. Inpatient and outpatient experiences with a family physician are acceptable. Successful International Experiences sessions are required. Arrangements including registering with "Studio Abroad" must be completed 90 days prior to the elective.

**Course Activities:** Participate in a clinical setting while utilizing and expanding a foreign (to English) language, thus improving medical language skills and patient interaction in said language.
**FMMD8411  Foreign Language Immersion**

**Description:** Must attend an accredited Foreign Language program. 80 hours of language study AND 20 hours of medical foreign language or 32 hours (8 half-days) of clinical required. Successful International Experiences sessions are required. Arrangements and registration with "Studio Abroad" must be complete 60 days prior to departure.

**Course Activities:** Students will immerse themselves in language skills and language use based on their current knowledge with a focus on clinical language and cultural sensitivity towards the populace.

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<thead>
<tr>
<th><strong>Coordinator:</strong></th>
<th>Steven Cruse</th>
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<tr>
<td><strong>Email:</strong></td>
<td><a href="mailto:steven.cruse@ucdenver.edu">steven.cruse@ucdenver.edu</a></td>
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<tr>
<th><strong>Course Director:</strong></th>
<th>Julie Paranka</th>
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<tr>
<td><strong>Email:</strong></td>
<td><a href="mailto:julie.paranka@ucdenver.edu">julie.paranka@ucdenver.edu</a></td>
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| **Duration:**       | 4 or 8 weeks |

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<tr>
<th><strong>Sub-I:</strong></th>
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<tr>
<td><strong>Longitudinal Course:</strong></td>
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<td><strong>Approval Required:</strong></td>
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<tr>
<td><strong>Grading:</strong></td>
<td>Pass/Fail</td>
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<td><strong>Enrollment:</strong></td>
<td>Min: 1 Max: 99</td>
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**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

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

**Course Format:** Didactic

**Location:** Away

**Semester Offered:** Summer; Fall; Spring

**Sections Available:** Available in all sections

**Approval Required:** Yes

**Semester 2-Week Offered:**

**Course Format:** Didactic

**Location:** Away

**Additional Information:**
# FMMD8600  Research in FM

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

**Course Activities:** This is an elective to further scholarship in Family Medicine. An elective plan will be developed with a Family Medicine mentor. Learning activities varies with the type of scholarly work proposed. Activities mirror personal goals and objectives approved by the course director.

| Coordinator: | Steven Cruse  
| Sub-I: | No  
| Longitudinal Course: | No  
| Approval Required: | Yes  
| Grading: | Pass/Fail  
| Enrollment: | Min: 1  
| Max: 99  
| Prerequisites: | Course director approval is required to add this course. Personal goals and objectives related to the area of scholarship must be approved by the course director.  
| Restrictions: | Must be supervised by a family physician or Department of Family Medicine faculty approved by the Course Director. (No Exceptions)Must have scholarly goals and objectives approved by the course director as well.  

| Course Director: | Julie Paranka  
| Semester Offered: | Summer; Fall; Spring  
| Sections Available: | Available in all sections  
| Semester 2-Week Offered: | All  
| Course Format: | Research/Scholarly Activity  
| Location: |  

**Additional Information:**

- **Duration:** 2, 4, 8 or 12 weeks
- **Coordinator:** Steven Cruse, steven.cruse@ucdenver.edu
- **Course Director:** Julie Paranka, julie.paranka@ucdenver.edu
- **Enrollment:** Min: 1  
Max: 99
- **Prerequisites:** Course director approval is required to add this course. Personal goals and objectives related to the area of scholarship must be approved by the course director.
- **Restrictions:** Must be supervised by a family physician or Department of Family Medicine faculty approved by the Course Director. (No Exceptions) Must have scholarly goals and objectives approved by the course director as well.
### IDPT8000 Foundations Doctoring IV

**Description:** This course continues the established student-preceptor relationship from the FDC course. Students work with their preceptor caring for patients at least 2-3 times per month (8-12 hours).

**Course Activities:** Students participate in the clinical care of their preceptor's patients and may have experiences of continuity with patients not present in the other clinical exposure. Requirements are 24 hours (6 sessions) for summer semester and 48 hours (12 sessions) for fall or spring semester.

**Coordinator:** Tina Roquemore  
**Course Director:** Kristin Furfari  
**tina.roquemore@ucdenver.edu**  
**kristin.furfari@ucdenver.edu**

**Duration:** 1 week for Summer semester

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<td>Enrollment:</td>
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<td>Prerequisites:</td>
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<td>Restrictions:</td>
<td>After registering please e-mail <a href="mailto:Tina.Roquemore@ucdenver.edu">Tina.Roquemore@ucdenver.edu</a>. For graduation requirements this course counts one week for summer semester and two weeks each for fall and spring semesters.</td>
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### IDPT8001 Tutoring in Foundations

**Description:** Fourth year students are trained how to be tutors and then use their skills with first and second year students learning physical exam, communication, other clinical skills and professional development. Students learn how to facilitate small groups of students, give feedback and evaluate student performance.

**Course Activities:** Students will learn a variety of teaching roles depending upon their participation: small group facilitators, communication coach, physical exam/clinical skills tutors.

**Coordinator:** Tina Roquemore  
**Course Director:** Wendy Madigosky  
**tina.roquemore@ucdenver.edu**  
**wendy.madigosky@ucdenver.edu**

**Duration:** 1 week each for Fall & Spring

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<td>Prerequisites:</td>
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<tr>
<td>Restrictions:</td>
<td>After registering please e-mail <a href="mailto:Tina.Roquemore@ucdenver.edu">Tina.Roquemore@ucdenver.edu</a>. For graduation requirements this course counts as one week each for fall and spring semesters.</td>
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**Course Format:** Clinical

**Location:**

**Additional Information:**

**Semester Offered:** Summer; Fall; Spring

**Sections Available:** Longitudinal Course

**Course 2-Week Offered:**

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<th>Course Format:</th>
<th>Didactic</th>
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<td>Location:</td>
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**Grading:** Pass/Fail

**Enrollment:** 1 Max: 99

**Semester Offered:** Fall; Spring

**Sections Available:** Longitudinal Course
IDPT8003  Geriatrics  Duration:  4 weeks

Coordinator:  Andrea Chisel  
  andrea.chisel@ucdenver.edu  
Course Director:  Skotti Church  
  skotti.church@ucdenver.edu

Sub-I:  No  
Longitudinal Course:  No  
Approval Required:  No

Grading:  Pass/Fail  
Enrollment:  Min: 1 Max: 2

Prerequisites:  
Restrictions:  

Description:  Geriatrics elective will provide clinic exposure to caring for older adults in the outpatient primary care and home settings. Learning objectives focus on the special needs of frail or chronically ill older adults and resources beyond direct physician care utilized for this population. Students will spend one on one time with geriatricians and focus on communications skills and history taking for medically complicated patients.

Course Activities:  Approximately 4-half days of clinical activities with a variety of geriatric medicine attendings including outpatient primary care clinic and Home Based Primary Care

Course Format:  Clinical  
Location:  UCH, VA  
Additional Information:
Description: This focus of this elective is to help students discern whether to pursue combined residency training in Internal Medicine and Pediatrics. This course will expose students to possible career paths available for Med-Peds providers within primary and specialty care settings.

Course Activities: Clinical Experiences will be primarily outpatient with Med-Peds Providers. Each month of the elective may vary slightly based on the availability of Med-Peds preceptors, but the typical experience will include:
- Primary Care: Denver Health, Adolescent Medicine Clinic, Special Care Clinic, High Street Clinic,
- Specialty Care: Adult Congenital Heart Disease Clinic, Cystic Fibrosis Clinic, Pediatric Pulmonology Clinic, HIV Clinic

Independent Learning & Enrichment:
- At the start of the rotation, students will be asked to create 3-5 learning goals for their rotation.
- Students will be given a list of questions to ask each provider they rotate with, so that they can compile impressions about what Med-Peds physicians can do with their training and how that might fit into the student's personal and professional goals.
- Students will be given educational resources from the National Med-Peds Residency Association and key articles that highlight the work of Med-Peds physicians.
- Students will be asked to write a 2-5 page reflection paper to be turned in by the end of the rotation to be based on their clinical experiences, learning goals, and impressions from their independent learning activities.
**IDPT8011  Clinical Nutrition**

**Duration:** 2 weeks

**Coordinator:** Laura Primak  
laura.primak@ucdenver.edu

**Course Director:** Nancy Krebs  
nancy.krebs@ucdenver.edu

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 1 Max: 1
- Prerequisites: Contact laura.primak@ucdenver.edu at least 4 weeks prior to start date with interests in nutrition.

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

**Course Activities:** Since this is a clinical elective, time is spent seeing patients with physicians who run nutrition specialty clinics, mid-level nutrition medical providers, and registered dietitians. There are a variety of outpatient nutrition clinics from which to choose, as well as inpatient opportunities. Time can be spent in pediatrics, adult medicine, adolescent medicine, or combinations of those areas learning about the nutrition care for a variety of chronic diseases and issues. There is some self-directed learning time during the elective with suggested readings, online web-based modules, and a brief written assignment.

**IDPT8014  Global Health US Project**

**Duration:** 4 or 8 weeks

**Coordinator:** Meleah Himber  
meleah.himber@ucdenver.edu

**Course Director:** Jennifer Bellows  
jwbellows@gmail.com

- Sub-I: No
- Longitudinal Course: No
- Approval Required: Yes
- Grading: Pass/Fail
- Enrollment: Min: 0 Max: 99
- Prerequisites: Course director approval required to add this course.
- Restrictions: Section 45 is the last 4 week block to register for this course.

**Description:** 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.
IDPT8015  Global Health Intl Project

**Description:** 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.

**Coordinator:** Meleah Himber
**meleah.himber@ucdenver.edu**

**Course Director:** Jennifer Bellows
**jwbellows@gmail.com**

**Duration:** 4 or 8 weeks

**Sub-I:** No
**Longitudinal Course:** No

**Approval Required:** Yes
**Grading:** Pass/Fail
**Enrollment:** Min: 0 Max: 99

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

**Restrictions:** Section 45 is the last 4 week block to register for this course.

**Semester Offered:** Summer; Fall; Spring
**Sections Available:** Section 45 is the last 4 week block to register for this course.

IDPT8016  Physician as Educator

**Description:** This elective is intended to develop your skills as an effective teacher in clinical and classroom 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.

**Course Activities:**
1. Workshops: attend at least 6 (of the 8) evening workshops.
2. Teaching practicum assignments: 4 Wednesday Evening Clinics at Stout Street, 6 Classroom teaching experiences.
3. Objective Structures Teaching Exam (OSTE): One session at the CAPE beginning with training December 17, 2015 OR May 19, 2016.

**Coordinator:** Steven Cruse
**steven.cruse@ucdenver.edu**

**Course Director:** Wendy Madigosky
**wendy.madigosky@ucdenver.edu**

**Duration:** 1 week per semester

**Sub-I:** No
**Longitudinal Course:** Yes
**Approval Required:** Yes
**Grading:** Pass/Fail
**Enrollment:** Min: 5 Max: 30

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

**Restrictions:** This is a longitudinal course and students must register for both fall and spring semesters in order to receive credit. This is a two-semester course offered fall and spring semesters. For graduation requirements, each semester counts one week.
IDPT8018  Global Health & Disaster

Coordinator: Michelle Shiver  
Coordinator: Michelle Shiver <michelle.shiver@ucdenver.edu>

Course Director: Stephen Berman  
Course Director: Stephen Berman <stephen.berman@childrenscolorado.org>

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 5  Max: 35
- Prerequisites:
- Restrictions:

Description: This international health course is a two week training offered once a year as part of the University of Colorado School of Medicine Global Health Track. This course prepares its participants for international experiences and future global health work. The interactive training incorporates readings, lectures, small group problem based learning exercises, technical skill sessions, and a disaster simulation exercise.

Course Activities: As you can see via the attached agenda for 2015 the global health week of the course is mainly lecture with a splattering of interactive case study review, small group sessions, lab and a labor and delivery workshop. The pediatrics in disasters week of the course is a balance of lecture and break out with a final day of active disaster simulation which we refer to as a field drill.

IDPT8019  Team-based Clinical Care

Coordinator:  

Course Director: Emily Gottenborg  
Course Director: Emily Gottenborg <emily.gottenborg@ucdenver.edu>

- Sub-I: No
- Longitudinal Course: Yes
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 1  Max: 99
- Prerequisites:
- Restrictions:

Description: A longitudinal, interprofessional course consisting of three activities including Voice of the Patient (an opportunity to learn about the patient experience in healthcare), Adverse Event Review (an opportunity to analyze a patient safety event), and an Executive Summary Analysis (allowing students to analyze a healthcare system inefficiency and provide actionable recommendations.)

Course Activities: Three activities as described below:

1) Voice of the patient: Interview 6-8 patients about their healthcare experiences in a team of interprofessional students

2) Adverse Event Analysis: Attend an Interprofessional Case Review or Morbidity and Mortality Conference and analyze the patient safety event using a standardized approach to Just Culture

3) Creation of Executive Summary: Work with a team of interprofessional students to identify a problem or inefficiency in the healthcare system, analyze it using cause & effect analysis and other QI tools, and provide actionable recommendations in the form of an Executive Summary that will be distributed to a functioning QI team within the healthcare system.
**IDPT8020  Physician as Advisor**

**Duration:** 1 week per semester

**Coordinator:**

**Sub-I:** No  
**Longitudinal Course:** Yes  
**Approval Required:** No  
**Grading:** Pass/Fail  
**Enrollment:** Min: 16  Max: 32  
**Prerequisites:** Must be an Advisory College Student Leader

**Course Director:** Terri Blevins  
[terri.blevins@ucdenver.edu](mailto:terri.blevins@ucdenver.edu)

**Semester Offered:** Fall; Spring  
**Sections Available:** Longitudinal Course  
**Semester 2-Week Offered:**

**Course Format:** Didactic  
**Location:** SOM

**Restrictions:**

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

**Course Activities:** Students will complete MBTI workshop. Students will participate in workshops around resilience, values, planning and goal setting. Student leaders meet monthly to share ideas, trouble-shoot issues, plan activities. Student leaders will submit reflection paper at the end of the course.

**Additional Information:** This is a two semester course offered fall and spring semesters. For graduation requirements, each semester counts one week. Schedule to be determined by group. We usually meet 3-4 times per year with faculty mentors for planning, goal setting, and training.
IDPT8021  Costa Rica Spanish Immersion

**Coordinator:** Rory Foster  
rfoster@commongroundinternational.com

**Course Director:** Steven Lowenstein  
steven.lowenstein@ucdenver.edu

**Duration:** 4 weeks

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Pass/Fail

**Enrollment:** Min: 1  Max: 10

**Prerequisites:** Open to students at all levels of Spanish proficiency. Students who have not studied Spanish in the past should plan to work on improving their Spanish in the months preceding the rotation. Registered students have free access to Common Ground Internation

**Restrictions:** The estimated charge (by Common Ground International) is $3,250 for 3 week blocks and $4,085 for 4-week blocks, which includes: travel medical insurance; home stay lodging and two meals per day; language classes and class materials; a comprehensive Medica

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

**Course Activities:** This elective includes intensive classroom instruction in Spanish, taught in a medical context. In addition, students will be expected to speak Spanish with their host families, their patients, their colleagues, the course supervisors and with local health care experts and mentors in Costa Rica.
### IDPT8022  Clinical Medical Spanish

**Coordinator:** Rory Foster  
**Course Director:** Lindsey Fish  
**rfoster@commongroundinternational.com**

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<tr>
<td>Enrollment:</td>
<td>Min: 4  Max: 14</td>
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<tr>
<td>Prerequisites:</td>
<td>2 years of classroom Spanish language instruction (i.e. 2 semesters of college level Spanish), basic Spanish language conversation ability, some knowledge of Medical Spanish. Evaluation by Spanish language instructor prior to registration required.</td>
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<tr>
<td>Restrictions:</td>
<td>Course fee: $450 plus textbooks.</td>
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<td>Semester Offered:</td>
<td>Fall;</td>
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<tr>
<td>Sections Available:</td>
<td>Available Section 21 only</td>
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<td>Semester 2-Week Offered:</td>
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<td>Course Format:</td>
<td>Clinical</td>
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<td>Location:</td>
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**Description:** Clinical Medical Spanish is a near-immersion experience in medical Spanish, consisting of: intensive classroom instruction in medical Spanish; immersion experiences with various Spanish speaking staff in the health care professions primarily at Denver Health; and a focused scholarly project. Estimated expenses of $450, which includes 32 hours of formal classroom instruction, review of homework assignments, and preceptorship experiences.

**Course Activities:** Attend all classroom sessions for practical Spanish language instruction -- 32 hours total  
Care for Spanish-speaking patients in assigned ambulatory clinic with Spanish-speaking preceptor  
Complete a scholarly project and provide a class presentation of project  
Shadow UCH Spanish language translators  
Spend time on Salud Mobile Health Units to Latino neighborhoods.

### IDPT8023  Refugee Health II

**Coordinator:** Course Director: Jamal Moloo  
**jamal.moloo@ucdenver.edu**

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<td>Longitudinal Course:</td>
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<tr>
<td>Restrictions:</td>
<td>Course director approval required to add this elective as it depends on availability.</td>
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<td>Semester Offered:</td>
<td>Summer;Fall;Spring</td>
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<td>Location:</td>
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<td>Additional Information:</td>
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**Description:** Refugee health II will provide Phase IV medical students with clinical exposure to the multifaceted nature of refugee healthcare through two or four week commitments at the Colorado Refugee Wellness Center.
IDPT8025  Ultrasound-EM-DHHA

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

Course Activities: This will be a busy 2 week elective as students must complete 200 scans in the 2 weeks. This will take approximately 30-40 hours but the actual schedule is flexible for the student.
IDPT8030  Laboratory Medicine

**Description:** Lecture-based elective provides a comprehensive overview of Clinical Pathology and laboratory testing. It reviews biochemical, physiologic, and pathologic phenomena on which laboratory tests are based and emphasizes approaches to the ordering, interpretation, and pitfalls of laboratory tests. An overview of transfusion medicine is also provided.

**Course Activities:** This is mostly a didactic lecture series, but hands-on use of ultrasound and non-invasive monitoring is included.

**Duration:** 4 weeks

**Coordinator:** Gretchen Haroldson  
gretchen.haroldson@ucdenver.edu

**Course Director:** Mary Berg  
mary.berg@ucdenver.edu

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1 Max: 50  

**Prerequisites:**  
**Restrictions:**

**Course Format:** Didactic  
**Location:** SOM

**Additional Information:**

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IDPT8040  Physician as Healthcare Improver

**Description:** Students complete IHI Open School on-line courses beyond their Basic Certificate of Completion. Course content includes: improvement capability, patient safety, leadership, person and family-centered care, quality, cost and value, and triple aim for populations. Students also reflect on learning and implications for future career.

**Course Activities:** Students pursue self-directed learning using IHI Open School courses beyond those required for the Basic Certification. Students select course work based on their individual learning goals. Students will also submit a reflective writing assignment related to their learning and implications for their future engagement in healthcare improvement.

**Duration:** 1 week per semester

**Coordinator:** Tina Roquemore  
tina.roquemore@ucdenver.edu

**Course Director:** Wendy Madigosky  
wendy.madigosky@ucdenver.edu

**Sub-I:** No  
**Longitudinal Course:** Yes  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1 Max: 99  

**Prerequisites:**  
**Restrictions:** After registering please e-mail Tina.Roquemore@ucdenver.edu. For graduation requirements this course counts one week per semester. Only one semester may be taken.

**Course Format:** Didactic  
**Location:**

**Additional Information:**
IDPT8041 Quality Improvement Practicum

Coordinator: Hemali Patel
hemali.patel@ucdenver.edu

Course Director: Hemali Patel
hemali.patel@ucdenver.edu

Course Format: Research/Scholarly Activity
Location: UCH

Duration: 2 weeks per semester

Semester Offered: Fall; Spring
Sections Available: Longitudinal Course
Semester 2-Week Offered: Longitudinal Course

Description: Students use the online IHI Open School Quality Improvement Practicum (QI 201) to provide a framework and join an interprofessional team engaged in a quality improvement project.

Course Activities: Students use the IHI Open School Quality Improvement Practicum course (QI 201) to guide their experiential learning. Prerequisite IHI Open School courses for the Practicum include QI 101, 102, and 103 which introduce foundational knowledge in Quality Improvement.

http://www.ihi.org/offerings/IHIOpenSchool/Courses/Pages/OpenSchoolCertificates.aspx

Students will then be integrated into ongoing quality improvement projects and work with Attending and/or Resident physicians to actively improve clinical processes within the hospital. Examples include reducing inappropriate use of antibiotics or telemetry, refine the discharge process or increase throughput in the hospital to improve patient safety. We will do our best to find ongoing projects that fit the student’s interest. Students do not need to have their own projects nor will they have to find QI projects on their own. Since students will likely join in the middle of active projects, we will update them on progress to date to ensure a complete and thorough educational process. The goal is to provide the best cost effective, efficient and patient-centered care.
**IDPT8091 MSA Phase IV Preparation**

**Coordinator:** Meleah Himber  
meleah.himber@ucdenver.edu  

**Course Director:** Allan Prochazka  
allan.prochazka@ucdenver.edu  

**Duration:** 4 weeks  

**Sub-I:** No  
**Longitudinal Course:** No  

**Approval Required:** Yes  

**Grading:** Pass/Fail  

**Enrollment:** Min: 1 Max: 99  

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

**Restrictions:** Section 45 is the last 4 week block to register for this course.

**Description:** 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.

**Course Activities:** 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.

**IDPT8093 IDPT Scholarly Activity**

**Coordinator:** Meleah Himber  
meleah.himber@ucdenver.edu  

**Course Director:** Allan Prochazka  
allan.prochazka@ucdenver.edu  

**Duration:** 4 weeks  

**Sub-I:** No  
**Longitudinal Course:** No  

**Approval Required:** Yes  

**Grading:** Pass/Fail  

**Enrollment:** Min: 1 Max: 99  

**Prerequisites:** 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 Assistant Dean for Student Affairs.  

**Restrictions:** Section 45 is the last 4 week block to register for this course.

**Description:** 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).

**Course Activities:** 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.
IDPT8601  Research Track, Rsrch I

**Coordinator:** Meleah Himber
meleah.himber@ucdenver.edu

Duration: 4 weeks

**Course Director:** Randy Ross
randy.ross@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: Yes

Grading: Honor/High Pass

Enrollment: Min: 1 Max: 99

Prerequisites:

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

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

**Course Activities:** Continue to work on completing scientific project.

IDPT8602  Research Track, Rsrch II

**Coordinator:** Meleah Himber
meleah.himber@ucdenver.edu

Duration: 4 weeks

**Course Director:** Randy Ross
randy.ross@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: Yes

Grading: Honor/High Pass

Enrollment: Min: 1 Max: 99

Prerequisites: IDPT8601, Research Track, Rsrch I

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

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

**Course Activities:** Continue to work on completing scientific project.
Description: The sub-intern functions as an intern and is responsible for the admission, evaluation, and continuing care of patients under the supervision of a Resident and an Attending. Sub-internships are offered at DHMC, P/SL, UCH, VAMC and St. Joseph's Hospital.

Course Activities: During the Internal Medicine Sub-Internship, students are expected to advance their knowledge, skills and attitudes needed to provide medical care for hospitalized adult patients. It is expected that students will function more independently during their sub-internship than they did during their Phase 3 training. By the completion of the rotation, the sub-intern should be able to function at or near the level of an intern with respect to the objectives of the rotation. In general, the sub-intern will move beyond the observation and participation phase and into the role of the primary provider. More specifically, the sub-internship is designed to help students achieve the following important competencies.
**MEDS8002  Hospital Medicine Sub-I**

**Coordinator:** Emilie Keeton  
emilie.keeton@ucdenver.edu  

**Sub-I:** Yes  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 0  Max: 2  

**Duration:** 4 weeks  
**Course Director:** Chris King  
christopher.king@ucdenver.edu  

**Sections Offered:** Summer; Fall; Spring  
**Semester 2-Week Offered:**  
**Course Format:** Clinical  
**Location:** UCH  
**Additional Information:** In addition to advancing the knowledge, skills & attitudes covered in the hospitalized adult care block this course focuses on teaching high value care concepts. Students will be responsible for caring for up to 8 patients at a time on an inpatient medicine service.

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

**Course Activities:** Students will be responsible for caring for up to 8 patients at a time on an inpatient medicine service. They will work directly with an attending hospitalist (no residents). This includes 4 nights of cross-coverage with an attending nocturnist (night hospitalist). Students will also have 2 didactics, one exploring value in healthcare and another discussing transitions of care between care settings. The students will also complete a project to analyze the value of the care they provide, specifically to identify waste within their lab ordering practices and they will create a plan to improve the value of the care they provide their patients. They will then reassess their progress in the last week. Students will also be responsible for standard Sub-Internship requirements: an advanced communication project, and a quality improvement project that is tied in with their value project noted above.

**MEDS8004  Cardiology**

**Coordinator:** Ashley Hurley  
ashley.hurley@ucdenver.edu  

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Enrollment:** Min: 1  Max: 3  

**Duration:** 2 or 4 weeks  
**Course Director:** Peter Buttrick  
peter.buttrick@ucdenver.edu  

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections for 4 week; available Spring semester for 2 week.  
**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:** UCH  

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

**Course Activities:** Students will perform initial clinical assessments, review diagnostic tests and formulate therapeutic plans under the supervision of a cardiology attending.
MEDS8005  Cardiac Diagnostic Skill  
**Coordinator:** Sarah Flores  
[jeanne.kittle@ucdenver.edu](mailto:jeanne.kittle@ucdenver.edu)  

**Course Director:** David Flitter  
[davidflitter@comcast.net](mailto:davidflitter@comcast.net)  

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Pass/Fail  
- **Enrollment:** Min: 1  Max: 7  
- **Semester Offered:** Summer;Fall;Spring  
- **Sections Available:** Not Available Section 1-2  
- **Semester 2-Week Offered:** All  
- **Course Format:** Didactic  
- **Location:** STJ  

**Description:** Course is at Exempla St. Joseph Hospital. Goals are to improve cardiac physical diagnosis skills, interpret EKG findings, recognize abnormal heart sounds and murmurs. Includes didactic sessions and home study.

**Course Activities:** Class lasts from 8-2:30 every day. From 8-10am the subject of the day is discussed. From 10-11 the homework from the previous night is discussed (usually about 4 EKG’s a night for homework) and example EKGs are reviewed. There is a break for lunch and then in the afternoon there is more discussion of EKGs or discussion of heart sounds and murmurs. Students are given a flash drive with example EKGs and articles for reading.

MEDS8006  Allergy/Clin Immunology  
**Coordinator:** Jeanne Kittle  
[jeanne.kittle@ucdenver.edu](mailto:jeanne.kittle@ucdenver.edu)  

**Course Director:** Jenny Stitt  

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** Yes  
- **Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
- **Enrollment:** Min: 1  Max: 1  
- **Semester Offered:** Summer;Fall;Spring  
- **Sections Available:**  
- **Semester 2-Week Offered:** All  
- **Course Format:** Clinical  
- **Location:** UCH  

**Description:** Outpatient Allergy and Clinical Immunology at the UCH adult clinic. Students will encounter conditions including allergic rhinitis, asthma, food allergy, eczema, and immunodeficiency. They will have the opportunity to attend journal clubs, case conferences and Denver Allergy Rounds.

**Course Activities:** Students will shadow fellows and/or faculty in Allergy clinic for the first few days. After the student is oriented to the clinic, they will interview and examine patients independently, with supervision by fellows and/or faculty. They will present patients to the faculty and participate in formulation of assessment and plans for evaluation and treatment. The elective will include at least 8 half-days of clinic per week and the remaining 1-2 half-days are for library time. Students will also have the opportunity to attend weekly educational conferences including: Allergy/Immunology Journal club, Allergy/Immunology program meetings, which include informal and formal case presentations, and Denver Allergy Rounds, which attracts speakers who are local and national experts in the field of allergy.
MEDS8007  Clinical Renal

Coordinator: Kendra Burghardt
kendra.burghardt@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass or Pass/Fail (<4 wks)
Enrollment: Min: 1     Max: 3

Prerequisites: Available: All

Restrictions: 2 week rotations offered anytime per Course Director

Duration: 2 or 4 weeks

Course Director: James Cooper
james.cooper@ucdenver.edu

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Course Format: Clinical
Location: UCH

Additional Information: Assigned to either UCH, VA, or DH.

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

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

MEDS8009  Clin Infectious Diseases

Coordinator: Hannah Daniels
hannah.daniels@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass or Pass/Fail (<4 wks)
Enrollment: Min: 1     Max: 4

Prerequisites: Available: All

Restrictions: Available: Summer;Fall;Spring
Sections Available: Available in all sections
Course Format: Clinical
Location: UCH

Additional Information: Assigned to either UCH, VA, or DH.

Duration: 2 or 4 weeks

Course Director: J. David Beckham
david.beckham@ucdenver.edu

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Clinical
Location: UCH

Description: UCH, DHMC, and VA Hospital assigned. Hospitalized patients with a variety of infectious diseases are available for study. Students will learn about diagnosis, pathophysiology, immunology, epidemiology, and management of complex ID patients. Antimicrobial use to treat infections is emphasized. Students attend and participate in ward rounds and conferences.

Course Activities: Depending on the rotation, students will actively participate in inpatient ID consult service care and/or outpatient care under the direct supervision of an ID attending. The student will complete ID consultations with the supervision of the ID fellow or resident, present the case to the ID attending and participate in the longitudinal management and care of the patient. The student will also participate in ID conferences and didactic opportunities during the rotation.
**MEDS8010  Clin Gastroenterology**

<table>
<thead>
<tr>
<th>Coordinator:</th>
<th>Kia Silverman</th>
<th>Course Director:</th>
<th>Joel Levine</th>
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<tbody>
<tr>
<td></td>
<td><a href="mailto:kia.silverman@ucdenver.edu">kia.silverman@ucdenver.edu</a></td>
<td><a href="mailto:joel.levine@ucdenver.edu">joel.levine@ucdenver.edu</a></td>
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<td>Sub-I:</td>
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<td>Prerequisites:</td>
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<td>Additional Information:</td>
<td>Students rotate at UCH, VA, and DH</td>
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</table>

**Description:** 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.

**Course Activities:** Students will work on the inpatient service, outpatient clinic, and attend conferences. Students will work 5 days/week, no call or nights. Outpatient clinics are scheduled weekly as follows: 2 DHMC, 1 UCH, 1 VA.

**Duration:** 2 or 4 weeks

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**MEDS8011  Pulmonary**

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<thead>
<tr>
<th>Coordinator:</th>
<th>Jessica Preble</th>
<th>Course Director:</th>
<th>Joseph Crossno</th>
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<tbody>
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<td><a href="mailto:jessica.preble@ucdenver.edu">jessica.preble@ucdenver.edu</a></td>
<td><a href="mailto:joseph.crossno@ucdenver.edu">joseph.crossno@ucdenver.edu</a></td>
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<tr>
<td>Enrollment:</td>
<td>Min: 1</td>
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<td>UCH</td>
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<td>Prerequisites:</td>
<td>Max: 2</td>
<td>Additional Information:</td>
<td>Students go to UCH and the VA; visiting students only go to UCH. 4 Weeks – 5 to 6 Days a week at the assigned clinical location site</td>
</tr>
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</table>

**Restrictions:**

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

**Duration:** 4 weeks
Description: Students will learn how to recognize, diagnose, and treat common rheumatic disorders. Students will attend all formal teaching conferences in the Division of Rheumatology and attend 6 or more outpatient clinics each week at Denver Health, the Denver VA, and the University campus.

Course Activities: This is an outpatient clinical experience. The student will assigned patients with a broad mix of rheumatic diseases and disease severity. The students attend rheumatology clinics at the University, Denver Health, and the Denver VA resulting in a broad range of socioeconomic society. Students may perform supervised arthrocentesis, soft tissue and bursal injections, and synovial fluid crystal analysis in clinic. In addition, students attend a series of didactic lectures covering major rheumatic diseases, and Division of Rheumatology teaching conferences. Students' duty hours are typically 40 hours per week. No Rheumatology call or weekend service is required.
MEDS8013  Endocrinology

**Coordinator:** Holly Heilman  
holly.heilman@ucdenver.edu

**Duration:** 2 or 4 weeks

**Course Director:** Cecilia Low Wang  
cecilia.lowwang@ucdenver.edu

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Honor/High Pass or Pass/Fail (<4 wks)

**Enrollment:** Min: 1  Max: 2

**Restrictions:** A valid VA badge and computer codes are required. Please contact course coordinator 8 weeks prior to rotation to begin the VA badging process. 2 week rotations offered from October - May only.

**Description:** 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.

**Course Activities:** This rotation will help medical students become proficient in endocrine-focused history and physical exam skills, learn the appropriate selection and interpretation of endocrine-related diagnostic tests, and gain experience in integrating these to develop appropriate management plans for patients with common endocrine disorders referred for outpatient and inpatient endocrine consultation. The student will also be exposed to patients with less common endocrine disorders, and have the opportunity to interact with colleagues in other specialties to manage this patient population. Clinical locations: Denver VAMC, University of Colorado Hospital and Denver Health.
MEDS8014    Hematology / Oncology

Description: The goal of this elective is for students to be exposed to a wide range of patients seen in consultation for hematologic and oncologic problems. The elective has a flexible enough schedule to address student’s individual needs. During the elective the students will attend some of the numerous subspecialty outpatient clinics for patients with various malignancies and benign hematologic problems including blood coagulation.

Course Activities: The elective has a flexible enough schedule to address student’s individual needs. During the elective the students will attend some of the numerous subspecialty outpatient clinics for patients with various malignancies and benign hematologic problems including blood coagulation. Students are particularly encouraged to attend the inpatient hematologic malignancies and inpatient hematology consult services. Based on individual interests students can attend outpatient clinics devoted to specific “solid” tumors and other more specialized areas such as pathology specific to hematology and oncology.

MEDS8017    Hospice/Palliative Care

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

Course Activities: Integrating into the interdisciplinary team approach of patient-centered care; working as a team evaluating goals of care, complex family meetings and complex symptom control. Working with the palliative care team at UCH and Lutheran inpatient hospice.
### MEDS8023  Medicine Consult

**Description:** Medicine Consult is for students interested in learning about the 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.

**Course Activities:** The student will function as a sub-intern on the Medicine Consult team, working with the hospitalist attending, upper level hospitalist residents, and the rest of the interdisciplinary team. The student will co-manage orthopedic patients, including those undergoing total hip and knee arthroplasties and hip fracture repair, as well as select urology patients. The student will also complete general medical consultations for non-medical services and respond to stroke alerts as part of the stroke team.

**Coordinator:**

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<th>Approval Required</th>
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**Course Director:** Mary Anderson  
[mary.anderson@ucdenver.edu](mailto:mary.anderson@ucdenver.edu)

**Duration:** 2 or 4 weeks

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### MEDS8025  Medical Oncology

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

**Course Activities:** Students will attend 10 clinic sessions per week, seeing patients both independently and with the attending.

**Coordinator:**

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**Course Director:** Elaine Lam  
[elaine.lam@ucdenver.edu](mailto:elaine.lam@ucdenver.edu)

**Duration:** 4 weeks

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MEDS8029  Applied Clin Pharmacology  

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

**Course Activities:** The course is taught in classroom lecture format, during a 4-week period. There are two lectures per day, every day during the 4-week period. The students sign an attendance sheet every day. Three unexcused absences are allowed. At the end of the course a written final exam is given and the student must meet or exceed a set grade in order to pass the course.

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MEDS8032  Corrections Health Care  

**Description:** Provide primary care to inmates in corrections facilities. Experiences include manipulative or drug-seeking patients, correctional care psychiatry, the interface between health care and the legal system, and issues in correctional health care (i.e., HIV, TB, drug abuse).
**MEDS8034 Critical Care St Joseph's Sub-I**

**Coordinator:** Sarah Flores  
sarah.flores@sclhs.net

**Course Director:** Lisa Cyran  
elizabeth.cyran@sclhs.net

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

**Duration:** 4 weeks

**Coordinator:** Michelle Kerklo  
michelle.kerklo@ucdenver.edu

**Course Director:** Ellen Burnham  
elen.burnham@ucdenver.edu

**Description:** During the Sub-internship in Medical Critical Care, students are expected to advance their knowledge, skills and attitudes needed to provide medical care for hospitalized critically ill adult patients. It is expected that students will function more independently during their sub-internship than they did during their Phase 3 (third year) training.

**Course Activities:** Every student should be able to admit and care for up to 2/3 of the patient load of a typical intern on an inpatient service. More specifically, they should admit up to 3 patients while on call and function as the intern for up to 8 patients on a non-call day. These include not only patients they have admitted primarily, but might include other patients followed by their teammates. The number of patients admitted and cared for will be dependent on the complexity of the patient; a smaller number of complex patients would be expected to provide adequate exposure of the student to pertinent critical care issues. Every student should be able to provide cross coverage on patients of other medical providers (interns and other sub-interns) while they are on call.
MEDS8038 CAM Wellness

**Coordinator:**
- Sub-I: No
- Longitudinal Course: No
- Approval Required: Yes
- Grading: Pass/Fail
- Enrollment: Min: 1 Max: 2
- Prerequisites: Course director approval required to add this course.

**Course Activities:**
- TWO WEEK elective (FOUR WEEK in parenthesis):
  1.10 (20) half day shadowing experiences of CAM practitioners
  2. Didactic sessions watched or attended
  3.3 (4) “field trips” – secret shopper trip, meditation retreat, community lecture, patient experience at local school of TCM or massage therapy, time in the Health Sciences Library’s Strauss Indigenous Medicine Collection, shadowing another outside provider
  4.6 (10) online education modules
  5. Personal wellness/self-care goals and activities
  6. Personal research final project to be presented to fellow students – either a 2-3 page written review with references or PowerPoint presentation with references

**Course Director:** Lisa Corbin  
- lisa.corbin@ucdenver.edu

**Duration:** 2 or 4 weeks

**Coordinator:**
- Course Director: Lisa Corbin  
- lisa.corbin@ucdenver.edu

**Semester Offered:** Summer; Fall; Spring

**Sections Available:** Available in all sections

**Semester 2-Week Offered:** All

**Course Format:** Didactic

**Location:**

**Description:** In-depth exploration of complementary / alternative medicine therapies and personal wellness will be facilitated through shadowing experiences, field trips, online learning, reflection, and self-directed project.

---

MEDS8039 AIDS & American Culture

**Coordinator:** Amanda McGuigan  
- amanda.mcguigan@ucdenver.edu

**Course Director:** Therese Jones  
- therese.jones@ucdenver.edu

**Sub-I:** No
**Longitudinal Course:** No
**Approval Required:** Yes
**Grading:** Pass/Fail
**Enrollment:** Min: 6 Max: 30
**Prerequisites:** Offered Section 49 only.

**Course Activities:**
- Attend and participate in discussion of assigned materials.
- Prepare and present brief commentaries on HIV/AIDS outside of the US and on major figures in the epidemic.
- Complete a 5-7 page analysis/discussion of a cultural or clinical aspect of HIV or a creative expression such as a personal essay, story, or original poetry.

**Duration:** 2 weeks

**Semester Offered:** Spring

**Sections Available:** Available Section 49-50

**Semester 2-Week Offered:** Spring

**Course Format:** Didactic

**Location:** SOM

**Description:** This course approaches HIV/AIDS as a biomedical, social, political and creative phenomenon. We will investigate the discourse and images of AIDS in journalistic writing, autobiography, fiction, poetry, film, television and photography.
MEDS8040 Film and Mental Illness

Coordinator: Amanda McGuigan
amanda.mcguigan@ucdenver.edu
Course Director: Therese Jones
therese.jones@ucdenver.edu

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

Course Activities: Required attendance and participation in the discussion of selected films which are screened during class and selected reading materials. Presentation of a brief commentary on one of the selected readings for the class. Completion of a 5-7 page analysis/discussion of one or more films in relation to themes, characters, and cinematic techniques.

Duration: 2 weeks
Coordinator: Amanda McGuigan
amanda.mcguigan@ucdenver.edu
Course Director: Therese Jones
therese.jones@ucdenver.edu

Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 6 Max: 40
Prerequisites: Offered Section 43 only.
Restrictions: Additional Information:

MEDS8100 MEDS Elective Away

Coordinator: Angie Duet
angie.duet@ucdenver.edu
Course Director: Adam Trosterman
adamtrosterman@ucdenver.edu

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

Course Activities: This elective allows students to identify and address their specific learning needs whether it be experiencing a field of medicine, a practice location, or filling in specific gaps in their current knowledge and clinical acumen. As a result, it specifically meets their individual career development needs.

Duration: 2 or 4 weeks
Coordinator: Angie Duet
angie.duet@ucdenver.edu
Course Director: Adam Trosterman
adamtrosterman@ucdenver.edu

Sub-I: No
Semester Offered: Summer;Fall;Spring
Longitudinal Course: No
Sections Available: Not available sections 49-50.
Approval Required: Yes
Semester 2-Week Offered: All
Grading: Pass/Fail
Course Format: Location: Away
Enrollment: Min: 1 Max: 99
Additional Information:
Prerequisites: Department approval must be obtained, then Arrangements must be completed at least one month in advance of start.
Restrictions: Not available sections 49-50.
### MEDS8600 Research in Medicine

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

**Coordinator:** Angie Duet  
[angie.duet@ucdenver.edu](mailto:angie.duet@ucdenver.edu)

**Course Director:** Adam Trosterman  
[ad amatrosterman@ucdenver.edu](mailto:adam.trosterman@ucdenver.edu)

<table>
<thead>
<tr>
<th><strong>Duration:</strong></th>
<th>2, 4, 8 or 12 weeks</th>
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<tbody>
<tr>
<td><strong>Sub-I:</strong></td>
<td>No</td>
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<tr>
<td><strong>Longitudinal Course:</strong></td>
<td>No</td>
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<tr>
<td><strong>Approval Required:</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Grading:</strong></td>
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<tr>
<td><strong>Enrollment:</strong></td>
<td>Min: 1  Max: 99</td>
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<tr>
<td><strong>Prerequisites:</strong></td>
<td>Individual arrangements must be completed then Department approval must be obtained. Arrangements must be completed at least one month in advance of start.</td>
</tr>
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<td><strong>Restrictions:</strong></td>
<td>Not available sections 49-50.</td>
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</tbody>
</table>

### MEDS8630 MEDS Research Away

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

**Coordinator:** Angie Duet  
[angie.duet@ucdenver.edu](mailto:angie.duet@ucdenver.edu)

**Course Director:** Adam Trosterman  
[ad amatrosterman@ucdenver.edu](mailto:adam.trosterman@ucdenver.edu)

<table>
<thead>
<tr>
<th><strong>Duration:</strong></th>
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<tbody>
<tr>
<td><strong>Sub-I:</strong></td>
<td>No</td>
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<tr>
<td><strong>Longitudinal Course:</strong></td>
<td>No</td>
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<td><strong>Approval Required:</strong></td>
<td>Yes</td>
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<tr>
<td><strong>Grading:</strong></td>
<td>Pass/Fail</td>
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<tr>
<td><strong>Enrollment:</strong></td>
<td>Min: 1  Max: 99</td>
</tr>
<tr>
<td><strong>Prerequisites:</strong></td>
<td>Individual arrangements must be completed then Department approval must be obtained. Arrangements must be completed at least one month in advance of start.</td>
</tr>
<tr>
<td><strong>Restrictions:</strong></td>
<td>Not available sections 49-50. This course is graded on a pass/fail basis only.</td>
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<table>
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<tr>
<th><strong>Additional Information:</strong></th>
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<tr>
<td><strong>Location:</strong></td>
<td>Away</td>
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<tr>
<td><strong>Course Format:</strong></td>
<td>Research/Scholarly Activity</td>
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</tbody>
</table>
## Neurology

**NEUR8000 Neurology**

**Description:** This elective offers students further clinical experience with patients who have neurologic disorders. Students can rotate on either the inpatient service or a mix of ambulatory clinics and inpatient services at University of Colorado Hospital.

**Course Activities:** Rotating on either the inpatient service, ambulatory clinics, or a combination of both. Students will be exposed to a variety of neurological complaints and have the option of choosing to work in Stroke, General Neurology Service, Epilepsy, Movement Disorders, Neuro-Oncology, Stroke/Vascular, or Neurocritical Care.

**NEUR8100 NEUR Elective Away**

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

**Course Activities:** Activities will vary based on the away site of choice.
**NEUR8600   Research in Neurology**

**Coordinator:** Holly Ables  
[holly.ables@ucdenver.edu](mailto:holly.ables@ucdenver.edu)  

**Course Director:** Pearce Korb  
[pearce.korb@ucdenver.edu](mailto:pearce.korb@ucdenver.edu)  

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

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.

**Duration:** 2, 4, 8 or 12 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  
Max: 99  

**Prerequisites:** At least one month prior to Research Elective, the student must make arrangements to work with a Research mentor, then Department approval must be obtained.

**Restrictions:**

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections  
**Semester 2-Week Offered:** All  
**Course Format:** Research/Scholarly Activity  
**Location:**

**Approval Required:** No  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  
Max: 99  

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections  
**Semester 2-Week Offered:** All  
**Course Format:** Research/Scholarly Activity  
**Location:**

**Additional Information:**
Neurosurgery

NSUR8014 Neurosurgery Sub-I

Description: 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.

Course Activities: The student will be expected to assist in the daily function of the clinical services, and exhibit the competencies required of junior neurosurgery residents. The student will also be expected to present a short grand rounds talk on the topic of the student’s choice.

Coordinator: Sophie Eggert
sophie.eggert@ucdenver.edu

Course Director: Yasuaki Harasaki
yasuaki.harasaki@dhha.org

Duration: 4 weeks
Sub-I: Yes
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1 Max: 5
Prerequisites: USMLE Step 1 score 215 or higher
Additional Information:

NSUR8100 NSUR Elective Away

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

Course Activities: Activities will vary based on the away site of choice

Coordinator: Sophie Eggert
sophie.eggert@ucdenver.edu

Course Director: Yasuaki Harasaki
yasuaki.harasaki@dhha.org

Duration: 2 or 4 weeks
Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1 Max: 99
Prerequisites: Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Clinical
Location: Away
Additional Information:
NSUR8600  Research in Neurosurgery  Duration:  2, 4, 8 or 12 weeks

Coordinator:  Sophie Eggert  
sophie.eggert@ucdenver.edu  
Course Director:  Yasuaki Harasaki  
yasuaki.harasaki@dhha.org

Sub-I: No  
Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1  Max: 99  
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:  

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

Course Activities:  Scholarly research. Specific activities created by the student and mentor based on the project.

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NSUR8630  NSUR Research Away  Duration:  2, 4, 8 weeks

Coordinator:  Sophie Eggert  
sophie.eggert@ucdenver.edu  
Course Director:  Yasuaki Harasaki  
yasuaki.harasaki@dhha.org

Sub-I: No  
Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1  Max: 99  
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:  Not available sections 49-50.

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

Course Activities:  Scholarly research. Specific activities created by the student and mentor based on the project.
### Obstetrics And Gynecology

<table>
<thead>
<tr>
<th>Code</th>
<th>General Obstetrics Sub-I</th>
<th>Duration: 4 weeks</th>
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</thead>
<tbody>
<tr>
<td>OBGY8000</td>
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<tr>
<td>Coordinator:</td>
<td>Lorrie Quintana</td>
<td>Course Director: Jennifer Hyer</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:lorrie.quintana@dhha.org">lorrie.quintana@dhha.org</a></td>
<td><a href="mailto:jennifer.hyer@dhha.org">jennifer.hyer@dhha.org</a></td>
</tr>
<tr>
<td>Sub-I: Yes</td>
<td>Sections Offered: Summer;Fall;Spring</td>
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<tr>
<td>Longitudinal Course: No</td>
<td>Sections Available: Available in all sections</td>
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<tr>
<td>Approval Required: No</td>
<td>Semester 2-Week Offered:</td>
<td></td>
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<tr>
<td>Grading: Honor/High Pass</td>
<td>Course Format: Clinical</td>
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<tr>
<td>Enrollment: Min: 1 Max: 1</td>
<td>Location: DHMC</td>
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<tr>
<td>Prerequisites:</td>
<td>Additional Information: q3 call, 1 day off every 7 days averaged over 4 weeks.</td>
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**Description:** Offered at DHMC only. Includes experience in outpatient high risk obstetrics, inpatient antepartum, intrapartum, postpartum, and family planning. Student works under clinical supervision of residents and attending staff.

**Course Activities:** Sub Interns will be integral members of an obstetrical service at Denver Health Hospital. They will participate in all aspects of antepartum, intrapartum, and postpartum patient care for which their team is responsible. Both normal and complicated obstetrical patients will be encountered. Sub interns will observe and participate in a wide variety of diagnostic and operative obstetrical procedures. Students will do no more than every 3rd night on call averaged over 4 weeks, and hold to resident duty hour rules.

<table>
<thead>
<tr>
<th>Code</th>
<th>General Gynecology Sub-I</th>
<th>Duration: 4 weeks</th>
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<td>OBGY8001</td>
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<tr>
<td>Coordinator:</td>
<td>Lorrie Quintana</td>
<td>Course Director: Jennifer Hyer</td>
</tr>
<tr>
<td></td>
<td><a href="mailto:lorrie.quintana@dhha.org">lorrie.quintana@dhha.org</a></td>
<td><a href="mailto:jennifer.hyer@dhha.org">jennifer.hyer@dhha.org</a></td>
</tr>
<tr>
<td>Sub-I: Yes</td>
<td>Sections Offered: Summer;Fall;Spring</td>
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<tr>
<td>Longitudinal Course: No</td>
<td>Sections Available: Available in all sections</td>
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<td>Grading: Honor/High Pass</td>
<td>Course Format: Clinical</td>
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<tr>
<td>Enrollment: Min: 1 Max: 1</td>
<td>Location: DHMC</td>
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<tr>
<td>Prerequisites:</td>
<td>Additional Information: q3 call; 1 day off every 7 days averaged over 4 weeks.</td>
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</table>

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

**Course Activities:** The course is designed to allow students to sample several areas of gynecology to assist with selection of an OB/GYN career and/or to broaden knowledge of gynecology for future primary care practitioners. Sub interns will spend the 4-week rotation on the Gynecology service working closely with the GYN team. The specific setting is hospital and clinic-based. Sub interns will participate in all clinical activities of the service, including observing and participating in procedures in the clinic and operating room.
OBGY8002  Directed Study in OBGYN  

Description: 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.

Course Activities: Student activities vary depending on arrangement with faculty members. Can be a clinical research project, laboratory project, directed literature review, or special clinical rotation. Arrangements made with course director.

Duration: 4 or 8 weeks

Coordinator: Deborah Jackson  
deborah.jackson@ucdenver.edu  

Course Director: Kristina Tocce  
kristina.tocce@ucdenver.edu

Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1  Max: 99  
Prerequisites: Must have approval from specific faculty involved and from Course Director to register.

Restrictions:

OBGY8004  High Risk Maternal/Fet Sub-I  

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

Course Activities: The overall objective of the course is to allow the student to function at the level of an intern in the care of patients with high-risk obstetrical diagnoses.

Duration: 4 weeks

Coordinator: Deborah Jackson  
deborah.jackson@ucdenver.edu  

Course Director: Meghan Donnelly  
meghan.donnelly@ucdenver.edu

Sub-I: Yes  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass  
Enrollment: Min: 1  Max: 1  
Prerequisites:

Restrictions:

Minimum of 1 night of call when there is not a third year OB student in house; arranged with Kristina Tocce; expected to participate in antepartum rounds on average 1 weekend day; must arrange with the antepartum team.
OBGY8005  Gynecologic Oncology Sub-I

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

Course Activities: The student will attend GynOnc clinics, scrub in on GynOnc surgical cases, and round on inpatients with the team, functioning as an acting intern. The student will attend pathology conference weekly with the team. Student will be required to perform a literature review and talk on a selected topic and will have an oral exam at the end of the rotation. Clinical research opportunities are available.

OBGY8009  GYN Subspecialties

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

Course Activities: This elective is designed to expose the student to a variety of outpatient subspecialty gynecologic clinics. These clinics include colposcopy, pediatric gynecology, vulvovaginitis, urogynecology, and pelvic pain. The student works under the direct supervision of attending physicians. An end of rotation presentation is required.
OGBY8010  Reproductive/Infertility  

Description:  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.

Course Activities:  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.

Duration:  4 weeks

Coordinator:  Deborah Jackson
deborah.jackson@ucdenver.edu

Course Director:  Serena Dovey
serena.dovey@ucdenver.edu

Sub-I:  No
Longitudinal Course:  No
Approval Required:  No
Grading:  Honor/High Pass or Pass/Fail (<4 wks)
Enrollment:  Min:  1  Max:  1
Prerequisites:  2 week rotations offered with special arrangement with course director only. Only offered in Fall and Spring.
Restrictions:  This elective is offered with special arrangement with course director only. Only offered in Fall and Spring.

OGBY8011  Family Planning

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

Course Activities:  The course is designed to promote proficiency in the medical and social aspects of family planning services. The elective will not only provide the knowledge to deal with family planning issues, the student also will become adept at caring for women with complicated cases (i.e., medically complicated patients needing contraception and/or termination of pregnancy, diagnosis and treatment of normal intrauterine pregnancies, abnormal pregnancies and ectopics, caring for women with incomplete and septic abortions, caring for complications of therapeutic abortions.

Duration:  4 weeks

Coordinator:  Deborah Jackson
deborah.jackson@ucdenver.edu

Course Director:  Kristina Tocce
kristina.tocce@ucdenver.edu

Sub-I:  No
Longitudinal Course:  No
Approval Required:  No
Grading:  Honor/High Pass
Enrollment:  Min:  1  Max:  1
Prerequisites:  This elective is for University of Colorado Students only; no visiting students.
Restrictions:  This elective is for University of Colorado Students only; no visiting students.
OBGY8012  UH Gynecology Sub-I

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

**Course Activities:** Sub-interns will spend the rotation on the Gynecology service working closely with the GYN team in the inpatient and clinic setting. Students will participate in all clinical activities of the service, including participating and observing procedures in the clinic and operating room.

**Duration:** 4 weeks

**Coordinator:** Deborah Jackson
deborah.jackson@ucdenver.edu

**Course Director:** Kristina Tocce
kristina.tocce@ucdenver.edu

**Sub-I:** Yes
**Longitudinal Course:** No
**Approval Required:** No
**Grading:** Honor/High Pass
**Enrollment:** Min: 1 Max: 1
**Prerequisites:**
**Restrictions:**

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OBGY8014  OB Surgical Skills Boot Camp

**Description:** Surgical Skills Boot Camp is intended for all fourth year students interested in surgical subspecialties. We will focus on improving individual skill sets and knowledge base that will improve transition into internship and residency.

**Course Activities:** We will begin with basic suture, knot tying technique, and procedure dry labs (such as hysteroscopy and hysteroscopic sterilization). The course will also include preoperative evaluation of patients, surgical technique and approach, and finish with postoperative evaluation and order sets.

**Duration:** 2 weeks

**Coordinator:** Jennifer Hyer
jennifer.hyer@dhha.org

**Course Director:** Kristina Tocce
kristina.tocce@ucdenver.edu

**Sub-I:** No
**Longitudinal Course:** No
**Approval Required:** No
**Grading:** Pass/Fail
**Enrollment:** Min: 0 Max: 10
**Prerequisites:**

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**OBGY8015  Group Prenatal Care: Pregnancy and Parenting Partners**

**Coordinate:** Susanne Kistin  
[mailto:susanne.kistin@ucdenver.edu](mailto:susanne.kistin@ucdenver.edu)

**Course Director:** Amy Nacht  
[mailto:amy.nacht@ucdenver.edu](mailto:amy.nacht@ucdenver.edu)

- Sub-I: No
- Longitudinal Course: Yes
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 0 Max: 2

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

**Course Activities:**
- Attend at least 8 of the 17 prenatal sessions
- Perform prenatal exams: fundal height, fetal hear tones etc
- Facilitate 1-2 sessions
- Participate in program evaluation

**Duration:** Entire year counts for 2 weeks

**OBGY8100  OBGY Elective Away**

**Coordinate:** Deborah Jackson  
[mailto:deborah.jackson@ucdenver.edu](mailto:deborah.jackson@ucdenver.edu)

**Course Director:** Kristina Tocce  
[mailto:kristina.tocce@ucdenver.edu](mailto:kristina.tocce@ucdenver.edu)

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 1 Max: 99
- Prerequisites: Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

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

**Course Activities:** Activities will vary based on the away site of choice

**Duration:** 2 or 4 weeks

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Additional Information:

This course is an opportunity to provide continuity of care for underserved women during pregnancy and postpartum within a group model of clinical care. This course provides exposure to midwifery care, and interaction with program evaluation.
OBGY8600  Research in OBGYN  Duration:  2, 4, 8 or 12 weeks

Coordinator: Deborah Jackson
deborah.jackson@ucdenver.edu
Course Director: Kristina Tocce
kristina.tocce@ucdenver.edu

Sub-I: No  Semester Offered: Summer; Fall; Spring
Longitudinal Course: No  Sections Available: Available in all sections
Approval Required: No  Semester 2-Week Offered: All
Grading: Pass/Fail  Course Format: Research/Scholarly Activity
Enrollment: Min: 1  Max: 99  Location: Away
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions: Additional Information:

Description: Scholarly research. Specific activities created by the student and mentor based on the project.

Activities:

OBGY8630  OBGY Research Away  Duration:  2, 4, 8 weeks

Coordinator: Deborah Jackson
deborah.jackson@ucdenver.edu
Course Director: Kristina Tocce
kristina.tocce@ucdenver.edu

Sub-I: No  Semester Offered: Summer; Fall; Spring
Longitudinal Course: No  Sections Available: Available in all sections
Approval Required: No  Semester 2-Week Offered: All
Grading: Pass/Fail  Course Format: Research/Scholarly Activity
Enrollment: Min: 1  Max: 99  Location: Away
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions: Additional Information:

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

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.
Description: This elective is designed for senior students seriously considering a career in Ophthalmology. Students rotate at each hospital with in-depth exposure to each subspecialty area. Students are expected to participate with in- and outpatient care, call activities, teaching rounds and conferences.

Course Activities: Patient care and didactic sessions comprise the core features of this elective. For patient care, students will mainly participate in outpatient clinics. Students will be able to see patients independently and learn the basic components of a detail ophthalmology exam. Students will also observe or participate in surgical cases in all subspecialties. Morning case conferences, Grand Rounds, and didactic lectures will be required.

OPHT8100 OPHT Elective Away

Coordinator: Bethany Jackson  
Course Director: Eric Hink  
Sub-I: No  
Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1 Max: 99  
Prerequisites: Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.  
Restrictions:  

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

Course Activities: Clinical away rotation
OPHT8600 Research Ophthalmology

**Coordinator:** Bethany Jackson  
[bethany.jackson@ucdenver.edu](mailto:bethany.jackson@ucdenver.edu)

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  Max: 99  
**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

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

**Course Activities:** Research will be conducted under a Primary Investigator (PI) and may involve study design, preparation of an IRB, clinical data gathering and review, literature searches, and production of posters, presentations, and papers for publication.

**Duration:** 2, 4, 8 or 12 weeks

**Course Director:** Eric Hink  
[eric.hink@ucdenver.edu](mailto:eric.hink@ucdenver.edu)

Semester Offered: Summer;Fall;Spring  
Sections Available: Available in all sections  
Semester 2-Week Offered: All  
Course Format: Research/Scholarly Activity  
Location:

**OPHT8630 OPHT Research Away**

**Coordinator:** Bethany Jackson  
[bethany.jackson@ucdenver.edu](mailto:bethany.jackson@ucdenver.edu)

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  Max: 99  
**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

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

**Course Activities:** Research will be conducted under a Primary Investigator (PI) and may involve study design, preparation of an IRB, clinical data gathering and review, literature searches, and production of posters, presentations, and papers for publication.

**Duration:** 2, 4, 8 weeks

**Course Director:** Eric Hink  
[eric.hink@ucdenver.edu](mailto:eric.hink@ucdenver.edu)

Semester Offered: Summer;Fall;Spring  
Sections Available: Available in all sections  
Semester 2-Week Offered: All  
Course Format: Research/Scholarly Activity  
Location: Away  
Additional Information:

**Restrictions:**
ORTH8000  Orthopaedic Surgery Sub-I

Coordinator: Kelly Wright  
kelly.wright@ucdenver.edu

Course Director: Frank Scott  
frank.scott@ucdenver.edu

Duration: 4 weeks

Sub-I: Yes  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass  
Enrollment: Min: 1 Max: 8  
Restrictions: Offered summer and fall semesters.

Description: 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.

Course Activities: This a four-week elective designed for the student interested in Orthopaedics or a similar surgical specialty. The student will join a resident-faculty team for two weeks at two of our affiliated hospitals. They will take call, attend conferences, and participate in all inpatient and outpatient clinical activities. Student evaluation is by faculty and includes Pass/High Pass/Honors grading.

ORTH8001  Orthopaedic Primary Care

Coordinator: Kelly Wright  
kelly.wright@ucdenver.edu

Course Director: Frank Scott  
frank.scott@ucdenver.edu

Duration: 4 weeks

Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass or Pass/Fail (<4 wks)  
Enrollment: Min: 1 Max: 2  
Restrictions: Offered spring semester.

Description: 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.

Course Activities: This elective is designed for students planning a career in one of the primary care fields who wish more in-depth experience with musculoskeletal medicine. Time is spent primarily in the outpatient clinics and at department conferences. Students are given reference texts to use during the rotation.
### ORTH8005  Sports Medicine

**Coordinator:** Kelly Wright  
[mailto:kelly.wright@ucdenver.edu](mailto:kelly.wright@ucdenver.edu)  

**Course Director:** Frank Scott  
[mailto:frank.scott@ucdenver.edu](mailto:frank.scott@ucdenver.edu)

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<tr>
<th>Sub-L</th>
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<tr>
<td>Longitudinal Course</td>
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<tr>
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<td>No</td>
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<tr>
<td>Grading</td>
<td>Honor/High Pass or Pass/Fail (&lt;4 wks)</td>
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<tr>
<td>Enrollment</td>
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<tr>
<td>Prerequisites</td>
<td>Must have completed ORTH 8000 and be applying to orthopedic residency</td>
</tr>
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</table>

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections  
**Course Format:** Clinical  
**Location:** UCH  
**Additional Information:** Course is offered at UCH and Denver Sports

**Restrictions:** This is a surgical orthopaedic elective.

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

**Course Activities:** This course provides clinical experience in all aspects of Sports Medicine including orthopedic care, primary care, operating room procedures, and sporting event coverage. Students will work in the sports medicine clinics on the University of Denver and University of Colorado campuses. They will attend department, as well as sports specific, conferences.

### ORTH8006  Alpine Orthopedics

**Coordinator:** Kelly Wright  
[mailto:kelly.wright@ucdenver.edu](mailto:kelly.wright@ucdenver.edu)  

**Course Director:** Frank Scott  
[mailto:frank.scott@ucdenver.edu](mailto:frank.scott@ucdenver.edu)

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<tr>
<td>Grading</td>
<td>Honor/High Pass</td>
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<tr>
<td>Enrollment</td>
<td>Min: 0 Max: 1</td>
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<tr>
<td>Prerequisites</td>
<td>Must have completed ORTH 8000 and be applying to orthopedic residency</td>
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</table>

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections.  
**Course Format:** Clinical  
**Location:** Away  
**Additional Information:**

**Restrictions:**

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

**Course Activities:** Student will work with Dr. Gloria Beim, a fellowship trained Sports orthopedic surgeon, who practices in Gunnison, Crested Butte and Telluride. Student will participate in evaluation of orthopedic injuries and conditions under direct observation of history taking, physical examination and communication skills with patients. Student will assist on operative cases and any other procedures supervised by Dr. Beim. Student will also participate with ski patrol and on the field management of orthopedic injuries and other sports related events in these communities. Student will travel with Dr. Beim to these small communities to evaluate and manage musculoskeletal conditions. Student may also work with other providers as deemed appropriate by Dr. Beim.
### ORTH8100  ORTH Elective Away

**Coordinator:** Kelly Wright  
kelly.wright@ucdenver.edu  
**Course Director:** Frank Scott  
frank.scott@ucdenver.edu

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

**Restrictions:**

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

**Course Activities:** Activities will vary based on the away site of choice

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<td>Sections Available</td>
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### ORTH8600  Research in Orthopedics

**Coordinator:** Kelly Wright  
kelly.wright@ucdenver.edu  
**Course Director:** Frank Scott  
frank.scott@ucdenver.edu

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**Prerequisites:** Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Restrictions:**

**Description:** 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.

**Course Activities:** This elective provides an opportunity for students to participate in basic science or clinical research projects with members of the orthopaedic faculty. Students may participate in established projects or originate their own if time and funding permits.

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<td>Course Format</td>
<td>Research/Scholarly Activity</td>
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<tr>
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</table>

**Additional Information:**

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ORTH8630 ORTH Research Away

Coordinator: Kelly Wright
  kelly.wright@ucdenver.edu

Course Director: Frank Scott
  frank.scott@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 1 Max: 10

Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:

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

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.

Duration: 2, 4, 8 weeks
Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Research/Scholarly Activity
Location: Away

Additional Information:
**OTOL 8000 Clinical Otolaryngology**

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

**Course Activities:** Students will participate in outpatient clinics, inpatient care, and in the operating room. Students will attend multidisciplinary H&H tumor board and weekly teaching conferences. Students will complete a short (10 min) end of rotation talk, during grand rounds, for 4 week students.

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**OTOL 8100 OTOL Elective Away**

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

**Course Activities:** Activities will vary based on the away site of choice
OTOL8600  Otolaryngology Research

Description: Gain experience in Otolaryngology-related research in basic or clinical science at the University of Colorado.

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.

OTOL8630  OTOL Research Away

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

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.
PATH8000  Pathology

Duration:  2 or 4 weeks

Coordinator:  Gretchen Haroldson  
gretchen.haroldson@ucdenver.edu

Course Director:  Miriam Post  
miriam.post@ucdenver.edu

Sub-I:  No
Longitudinal Course:  No
Approval Required:  No
Grading:  Honor/High Pass
Enrollment:  Min: 1  Max: 2
Prerequisites:
Restrictions:

Description:  Student rotates through Anatomic Pathology (AP) services (surgical, cytology, autopsy, pediatric).  Subspecialty rotations can be arranged in AP (hematopathology, neuropathology, renal, urologic, GI, pulmonary, molecular) or Clinical Pathology (CP) (clinical chemistry, microbiology, coagulation, transfusion medicine) per student's interest.

Course Activities:  The student will rotate through a variety of anatomic and clinical pathology services, participating in the daily functioning of the service.  Their responsibilities will vary depending on which service they are on and the services they are assigned to will be determined by their career goals and interests.

PATH8100  PATH Elective Away

Duration:  2 or 4 weeks

Coordinator:  Gretchen Haroldson  
gretchen.haroldson@ucdenver.edu

Course Director:  Miriam Post  
miriam.post@ucdenver.edu

Sub-I:  No
Longitudinal Course:  No
Approval Required:  Yes
Grading:  Pass/Fail
Enrollment:  Min: 1  Max: 99
Prerequisites:  Department approval must be obtained, then approval by the Assistant Dean for Student Affairs.  Arrangements must be completed at least one month in advance of start.  A full written description from course director at outside institution.
Restrictions:

Description:  This elective will be held at a site in Colorado, out of state or internationally.  Students must obtain Course Director approval at least one month in advance.  International sites must be approved by the University Student Affairs Office.

Course Activities:  Per outside institution requirements.
### PATH8600 Research in Pathology

**Description:** The student will rotate with a Pathology faculty member or in their lab to participate in ongoing research which is relevant to his or her clinical or long-term academic interests.

**Course Activities:** Varies per student interest and laboratory selected.

**Coordinator:** Gretchen Haroldson  
gretchen.haroldson@ucdenver.edu  

**Course Director:** Miriam Post  
miriam.post@ucdenver.edu  

**Duration:** 2, 4, 8 weeks

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1 Max: 99

**Prerequisites:** Departmental approval and all arrangements made at least one month in advance

**Restrictions:**

### PATH8630 PATH Research Away

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

**Course Activities:** Varies per student interest and laboratory selected.

**Coordinator:** Gretchen Haroldson  
gretchen.haroldson@ucdenver.edu  

**Course Director:** Miriam Post  
miriam.post@ucdenver.edu  

**Duration:** 2, 4, 8 weeks

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1 Max: 99

**Prerequisites:** Departmental approval and all arrangements made at least one month in advance

**Restrictions:**

**Course Format:** Research/Scholarly Activity  
**Location:** UCH  
**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections  
**Semester 2-Week Offered:** All  
**Course Format:** Research/Scholarly Activity  
**Location:** UCH  
**Additional Information:**
### Pediatric

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<th>Course Title</th>
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<th>Course Director</th>
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<tr>
<td>PEDS8000</td>
<td>Pediatric Sub-I</td>
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<td>Michael Baca</td>
<td>Jennifer Soep</td>
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<td><a href="mailto:michael.baca@childrenscolorado.org">michael.baca@childrenscolorado.org</a></td>
<td><a href="mailto:jennifer.soep@ucdenver.edu">jennifer.soep@ucdenver.edu</a></td>
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<td>Description: Designed for students interested in further training in pediatrics. Students function as an intern and are responsible for the admission, evaluation and continuing care of inpatients. Sub-internships are offered at Children’s Hospital Colorado and Denver Health.</td>
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<td>Pediatric Cardiology</td>
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<td>Michael Baca</td>
<td>Michael Schaffer</td>
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<td><a href="mailto:michael.baca@childrenscolorado.org">michael.baca@childrenscolorado.org</a></td>
<td><a href="mailto:michael.schaffer@childrenscolorado.org">michael.schaffer@childrenscolorado.org</a></td>
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<td>Description: This elective provides an opportunity to become acquainted with the special diagnostic and therapeutic problems of the infant and child with heart disease. Diagnosis by history, physical examination, electrocardiography, chest x-ray, echocardiography, and cardiac catheterization will be stressed. Discriminations between significant and insignificant findings and murmurs will be taught and the medical management and rationale behind selection of patients for surgery will be covered. The student may make rounds with the cardiology team, see consults, attend outpatient clinics, and participate in conferences. Oral and written performance evaluations are given at the end of the course. Medical students and pediatric residents are given the same responsibilities and opportunities for participation.</td>
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**Course Activities:** Students are expected to be present and prepared for all daily patient-related activities and learning experiences.

**Activities:** There is no night call during this rotation, but there are opportunities to attend outreach clinics.
PEDS8005  Allergy and Immunology CHCO

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

**Course Activities:** Students are expected to be present and prepared for all daily patient-related activities and learning experiences.

There are no night call during this rotation. Students will primarily spend time in allergy and immunology clinics at Children’s Hospital Colorado. Students will also have half-day learning experiences in the pulmonary function lab and the Children’s Hospital Colorado clinical laboratory.

**Course Director:** Daniel Searing
daniel.searing@ucdenver.edu

**Coordinator:** Flor Ibarra
flor.ibarra@childrenscolorado.org

**Duration:** 4 weeks

**Semester Offered:** Fall; Spring

**Sections Available:** Available Sections 1, 5, 33, 37, 45

**Course Format:** Clinical

**Location:** CHCO, DHMC

**Enrollment:** 0 Max: 1

**Prerequisites:**

**Restrictions:**

Additional Information:

PEDS8006  National Jewish - Immunology/Allergy

**Description:** Students participate in the care of outpatients at National Jewish, attend lectures, rounds and conferences. Opportunities provided to observe laboratory procedures in immunology and pulmonary physiology laboratories.

**Course Director:** Nathan Rabinovitch

**Coordinator:** Mariama Sannoh

**Duration:** 4 weeks

**Semester Offered:** Spring; Summer

**Sections Available:** Only available in select sections (1-8, 33-36, 45-52 )

**Course Format:** Clinical

**Location:**

**Additional Information:** There are no night call during this rotation.

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Honor/High Pass or Pass/Fail (<4 wks)

**Enrollment:** Min: 0 Max: 1

**Restrictions:**

**Prerequisites:**
PEDS8007  Child Abuse and Neglect  

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

**Duration:** 4 weeks

**Coordinator:** Michael Baca  
[Michael.Baca@childrenscolorado.org](mailto:Michael.Baca@childrenscolorado.org)

**Course Director:** Andrew Sirotnak  
[Andrew.Sirotnak@childrenscolorado.org](mailto:Andrew.Sirotnak@childrenscolorado.org)

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Honor/High Pass

**Enrollment:** Min: 0  Max: 1

**Prerequisites:**

**Restrictions:**

PEDS8008  Birth Defects/Genetics

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

**Course Activities:** Students are expected to be present and prepared for all daily patient-related activities and learning experiences.

**Duration:** 4 weeks

**Coordinator:** Michael Baca  
[Michael.Baca@childrenscolorado.org](mailto:Michael.Baca@childrenscolorado.org)

**Course Director:** Margarita Saenz  
[Margarita.Saenz@childrenscolorado.org](mailto:Margarita.Saenz@childrenscolorado.org)

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** No

**Grading:** Honor/High Pass

**Enrollment:** Min: 0  Max: 1

**Prerequisites:**

**Restrictions:**

**Location:** CHCO

Additional Information:
PEDS8009  Peds Infectious Disease                          Duration:  2 or 4 weeks

Coordinator:  Michael Baca                                   Course Director:  Kevin Messacar
               michael.baca@childrenscolorado.org

Sub-I:  No                        Semester Offered:  Summer;Fall;Spring
Longitudinal Course:  No                  Sections Available:  Not available sections 49-51
Approval Required:  No                           Semester 2-Week Offered:  All
Grading:  Honor/High Pass or Pass/Fail (<4 wks)          Course Format:  Clinical
Enrollment:  Min: 0    Max: 1                        Location:  CHCO

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

PEDS8011  Pediatric Pulmonary                          Duration:  4 weeks

Coordinator:  Michael Baca                                   Course Director:  Oren Kupfer
               michael.baca@childrenscolorado.org

Sub-I:  No                        Semester Offered:  Summer;Fall;Spring
Longitudinal Course:  No                  Sections Available:  Not available sections 49-51
Approval Required:  No                           Semester 2-Week Offered:  All
Grading:  Honor/High Pass or Pass/Fail (<4 wks)          Course Format:  Clinical
Enrollment:  Min: 0    Max: 1                        Location:  CHCO

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

Course Activities:  The student will attend pulmonary clinics and participate in consultations with other members of the service. The student will attend weekly conferences. Each student will be expected to prepare and present a seminar/case discussion on a pediatric pulmonary topic.
PEDS8012  Pediatric Neurology  
Coordinator: Michael Baca  
michael.baca@childrenscolorado.org  
Course Director: Padmini Palat  
Duration: 4 weeks  
Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass  
Enrollment: Min: 0  Max: 2  
Prerequisites:  
Restrictions:  
Description: 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.

PEDS8013  Pediatric Endocrinology  
Coordinator: Michael Baca  
michael.baca@childrenscolorado.org  
Course Director: Christine Chan  
Duration: 4 weeks  
Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass or Pass/Fail (<4 wks)  
Enrollment: Min: 0  Max: 1  
Prerequisites:  
Restrictions:  
Description: Patients with abnormalities of growth and sexual development, thyroid disorders, and diabetes mellitus are evaluated and treated. Extended diagnostic testing and management are conducted on ward rounds, in endocrine and diabetes clinics, and in clinical research clinics.

Course Activities: Students will be provided a calendar at the start of the rotation. The calendar will include their schedule for the month, which generally consists of 1-2 weeks in outpatient endocrinology clinic, 1 week in outpatient diabetes clinic, and 1 week on the wards/ICU covering both endocrine and diabetes consults. Outpatient weeks may include time spent in multi-disciplinary clinics learning about endocrine management of the following conditions: PCOS, Prader Willi Syndrome, XY disorders (ex. Klinefelter syndrome), type 2 diabetes, neuro-oncologic disorders, Turner syndrome, and pediatric thyroid cancer. Students are expected to work with the attendings and/or fellows to whom they are assigned and to assist in history taking and coming up with assessment and plans.
**PEDS8015  Pediatric Neonatology Sub-I**

**Coordinator:** Michael Baca  
michael.baca@childrenscolorado.org

**Course Director:** Jennifer Soep  
jennifer.soep@ucdenver.edu

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

**Duration:** 4 weeks

**Sub-I:** Yes  
**Longitudinal Course:** No  
**Approval Required:** No

**Grading:** Honor/High Pass  
**Enrollment:** Min: 0 Max: 3

**Prerequisites:**  
**Restrictions:** Only 2 spots available in Sections 9 and 13.

**PEDS8018  General Academic Peds**

**Coordinator:** Michael Baca  
michael.baca@childrenscolorado.org

**Course Director:** Christina Suh

**Duration:** 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No

**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Enrollment:** Min: 0 Max: 2

**Prerequisites:**  
**Restrictions:**

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

**Course Activities:** Students are expected to attend 8am daily didactic teaching sessions as well as noon conference and morning reports. Students will be seeing patients from 8:30 to approximately 5pm each day. Most learning is done at the bedside and through discussions about patients with their attendings.
PEDS8020  Adolescent Medicine  

Coordinator:  Michael Baca  
  michael.baca@childrenscolorado.org  

Course Director:  Paritosh Kaul  
  paritosh.kaul@childrenscolorado.org  

Sub-l: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass  
Enrollment: Min: 0 Max: 1  
Prerequisites:  
Restrictions:  

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

Course Activities: Students will spend their time attending a variety of clinics at Children's Hospital Colorado. Adolescent Clinic, Eating Disorder, Micro Lab, Synergy Adolescent Treatment Services, Young Mother's Clinic and Adolescent Gynecology and the Colorado Adolescent Maternity Program. Students will also spend time at the two Denver Health community clinics; Eastside Clinic and Westside Clinic. With approval from the Denver Public School System, students have the opportunity to attend the school based clinics that are part of the Denver Health System. Students will also attend three half-day didactic sessions for each of the four weeks of the rotation.

PEDS8020  Adolescent Medicine  

Coordinator:  Michael Baca  
  michael.baca@childrenscolorado.org  

Course Director:  Paritosh Kaul  
  paritosh.kaul@ucdenver.edu  

Sub-l: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass  
Enrollment: Min: 0 Max: 1  
Prerequisites:  
Restrictions:  

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

Course Activities: Students will spend their time attending a variety of clinics at Children's Hospital Colorado. Adolescent Clinic, Eating Disorder, Micro Lab, Synergy Adolescent Treatment Services, Young Mother's Clinic and Adolescent Gynecology and the Colorado Adolescent Maternity Program. Students will also spend time at the two Denver Health community clinics; Eastside Clinic and Westside Clinic. With approval from the Denver Public School System, students have the opportunity to attend the school based clinics that are part of the Denver Health System. Students will also attend three half-day didactic sessions for each of the four weeks of the rotation.
Peds Disability Medicine  

**Coordinator:** Michael Baca  
**Course Director:** Ellen Elias  
**Coordinator:** michael.baca@childrenscolorado.org  
**Course Director:** ellen.elias@ucdenver.edu  

**Duration:** 4 weeks  

**Sub-I:** No  
**Semester Offered:** Summer; Fall; Spring  
**Longitudinal Course:** No  
**Sections Available:** Available in all sections.  
**Approval Required:** No  
**Semester 2-Week Offered:**  
**Grading:** Pass/Fail  
**Course Format:** Clinical  
**Enrollment:** Min: 0 Max: 1  
**Location:** CHCO, UCH, MCPN, Wheat Ridge Regional Center  

**Restrictions:** Additional Information:  

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

**Course Activities:** If students select the pediatric focused model, students will spend approximately 3 weeks in pediatric focused training sites, including the Special Care Clinic, Special Care Consult Service, Special Care Clinic nutrition services, Sie Center for Down Syndrome (including time with physical, occupational and speech therapists), Children's Colorado Cerebral Palsy Program, home visits, Early Intervention services, and school services; they will spend approximately 1 week in adult focused training sites including Wheat Ridge Regional Center, MCPN, home visits, and/or work training site or day program visit.

Peds Gastroenterology  

**Coordinator:** Michael Baca  
**Course Director:** Edward Hoffenberg  
**Coordinator:** michael.baca@childrenscolorado.org  
**Course Director:** edward.hoffenberg@childrenscolorado.org  

**Duration:** 2 or 4 weeks  

**Sub-I:** No  
**Semester Offered:** Summer; Fall; Spring  
**Longitudinal Course:** No  
**Sections Available:** Not available sections 49-51  
**Approval Required:** No  
**Semester 2-Week Offered:** All  
**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Course Format:** Clinical  
**Enrollment:** Min: 0 Max: 2  
**Location:** CHCO  

**Restrictions:** Not available section 9. 2 week rotations offered from October - May only.  

**Additional Information:**  

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

**Course Activities:** Sample calendar Outpatient week Monday am-Liver clinic Monday pm-Procedure Unit Tuesday am-Fellows rounds 7:30-8 Tuesday am-IBD clinic or Eosinophilic disorders clinic Tuesday pm-Intestinal Rehab clinic Wednesday am-Interventional procedure block Wednesday pm-celiac disease clinic Wednesday 4-6 conferences: radiology, pathology, research, topic, journal club Thursday am-General GI clinic Thursday pm-choice of: GI clinic, procedures, reading Friday am-General GI clinic or IBD clinic Friday pm-procedures, reading, other There are options to attend liver, eosinophilic disorders, and IBD team meetings weekly. Inpatient week Is different in that you will go on rounds with the GI or Liver team as well as the consultation team. In addition, there will be opportunity to see patients in GI clinic and urgent clinics. Students will gain experience in the GI or liver focused physical examination including of ano-rectal malformations, performing digital rectal examinations, abdominal exams.
PEDS8023  Healthy Beginnings Clinic 4th Year Manager  Duration:  2 weeks

Coordinator:  
Sub-I:  No  
Longitudinal Course:  Yes  
Approval Required:  No  
Grading:  Pass/Fail  
Enrollment:  Min: 0  Max: 8  
Prerequisites:  Students must be members of the Warren Village Healthy Beginnings Clinic Steering Committee.  
Restrictions:  
Description:  Fourth year course for students who are already members of the Warren Village Healthy Beginnings Clinic Steering Committee. Students will continue to attend meetings and manage clinic. They are also expected to lead teaching and clinical development of students.  
Course Activities:  
- Students will attend steering committee meetings once per month and, if unable, are expected to read the meeting minutes and respond in a timely manner.  
- Students will manage clinic 2-4 times per semester. During these sessions, students are expected  

Course Director:  Stephanie Stevens  
stephaniestevens@earthlink.net  
Semester Offered:  Fall;Spring  
Sections Available:  Longitudinal Course  
Semester 2-Week Offered:  Fall;Spring  
Course Format:  Clinical  
Location:  Ray Cushman House at Warren Village  

PEDS8024  Child Development/Behav.  Duration:  2 or 4 weeks

Coordinator:  Michael Baca  
Sub-I:  No  
Longitudinal Course:  No  
Approval Required:  No  
Grading:  Pass/Fail  
Enrollment:  Min: 0  Max: 1  
Prerequisites:  
Restrictions:  - Section 29 Blocked per request of Director  
Description:  Medicals students will participate in the medical assessment and treatment of children with developmental and behavioral problems. They will attend lectures, participate in the seminars, and observe multidisciplinary assessments of children with developmental disorders. Primarily observational.  
Course Activities:  Developmental Behavioral Pediatric medical evaluations and medical management Psychology developmental evaluation multidisciplinary developmental evaluations observation of occupational therapy, speech language pathology, physical therapy, feeding, and nutrition evaluations observation and review of typical developmental milestones at an early learning center group learning sessions with residents developmental pediatric didactics with fellows independent reading  

Course Director:  Robyn Nolan  
robyn.nolan@childrenscolorado.org  
Semester Offered:  Summer;Fall;Spring  
Sections Available:  Not available sections 49-51  
Semester 2-Week Offered:  All  
Course Format:  Clinical  
Location:  CHCO  
Additional Information:  
Prerequisites:  
Restrictions:  

PEDS8025  PEDS Emergency Medicine  
**Coordinator:** Michael Baca  
*michael.baca@childrenscolorado.org*  
**Course Director:** Kelley Roswell  
*kelley.roswell@childrenscolorado.org*  
**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No

**Grading:** Honor/High Pass or Pass/ Fail (<4 wks)  
**Enrollment:** Min: 0 Max: 1

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

**Course Activities:** Skills will be taught through one on one interaction with faculty and case presentations.

PEDS8026  Pediatric Nephrology  
**Coordinator:** Michael Baca  
*michael.baca@childrenscolorado.org*  
**Course Director:** Melisha Hanna  
*melisha.hanna@childrenscolorado.org*  
**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No

**Grading:** Honor/High Pass  
**Enrollment:** Min: 0 Max: 1

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

**Course Activities:** This is a combined inpatient and outpatient rotation. Students will act as a member of the inpatient renal consult service and also attend nephrology ward rounds. The student will also see patients in the outpatient setting. Responsibilities include: 1. Attend morning rounds for both the primary inpatient team and kidney consult service (Monday-Friday mornings) 2. Attend Kidney Center outpatient clinics a. Peritoneal dialysis (Mon afternoon) b. Transplant clinic (Mon and Thurs mornings) c. Cystinosis clinic (Wed morning in select months) d. Stone clinic (Wed morning in select months) e. General Nephrology (Wed and Thurs afternoons, Fri mornings) f. PUV Clinic (Fri morning in select months) 3. Attend clinical meetings a. Kidney Center clinical patient review b. Dialysis quality improvement c. Transplant meeting 4. Attend any quarterly educational conferences that are scheduled during your rotation a. Urology/Nephrology conference b. Adult/Pediatric Nephrology conference c. Kidney biopsy conference Typical outpatient schedule: Monday AM Inpatient Rounds/Consults or Transplant Clinic PM Peritoneal Dialysis Clinic Tuesday AM Inpatient Rounds/Consults PM Reading/Cases/ Consults Wednesday AM Inpatient Rounds/Consults PM General Nephrology Clinic Thursday AM Inpatient Rounds/Consults or Transplant Clinic PM General Nephrology Clinic Friday AM Inpatient Rounds/Clinic PM Reading/Cases/Consults
PEDS8027 Pediatric ICU Sub-I

Coordinator: Michael Baca
michael.baca@childrenscolorado.org

Course Director: Angela Czaja
angela.czaja@childrenscolorado.org

Duration: 4 weeks

Sub-I: Yes
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 0 Max: 1
Prerequisites: 
Restrictions: 

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

PEDS8029 Breastfeeding Management

Coordinator: Laura Primak
laura.primak@ucdenver.edu

Course Director: Maya Bunik
maya.bunik@childrenscolorado.org

Duration: 2 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Pass/Fail
Enrollment: Min: 0 Max: 2
Prerequisites: Contact Dr. Maya Bunik and Laura Primak 2 weeks prior to start. (maya.bunik@childrenscolorado.org; laura.primak@ucdenver.edu)
Restrictions: 

Description: 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.

Course Activities: Students will spend time with lactation consultants in clinical and community settings. Students may also visit a milk bank, a La Leche league meeting, and have opportunities to participate in other community breastfeeding events.
PEDS8030 Vaccination in Pediatrics

**Description:** 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.

**Course Activities:** This course is designed for anyone interested in improving their ability to talk with parents who have questions about vaccines. The course is a combination of one-on-one teaching with the course director, online modules, reading materials including review articles and original literature, and clinical time with primary care providers with expertise in vaccines. Prepare a 15-20 minute talk designed for either parents, providers, or both, on a topic of your choice.

**Duration:** 2 or 4 weeks

Coordinator: Michael Baca
- michael.baca@childrenscolorado.org

Course Director: Sean O'Leary
- sean.oleary@childrenscolorado.org

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Pass/Fail
- Enrollment: Min: 0 Max: 2

- Sections Available: Summer;Fall;Spring
- Semester 2-Week Offered: All
- Course Format: Clinical
- Location: CHCO

- Approval Required: No
- Grading: Honor/High Pass or Pass/Fail (<4 wks)
- Enrollment: Min: 0 Max: 1

- Sections Available: Not available sections 49-51
- Semester 2-Week Offered: All
- Location: CHCO

Additional Information: Students rotate at CHCO and outpatient community physician's office

PEDS8031 Pediatric Hem/Onc

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

**Course Activities:** First two weeks (inpatient): Monday-Friday: The student will pre-round on his/her patients in the morning. They will have the option of attending the general pediatrics morning report, which is at 7:30 AM. Hematology rounds usually start at 9 AM and Oncology rounds usually start at 9:30 AM, finishing around noon.

**Duration:** 4 weeks

Coordinator: Michael Baca
- michael.baca@childrenscolorado.org

Course Director: Brian Greffe
- brian.greffe@childrenscolorado.org

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Honor/High Pass or Pass/Fail (<4 wks)
- Enrollment: Min: 0 Max: 1

- Sections Available: Summer;Fall;Spring
- Semester 2-Week Offered: All
- Course Format: Clinical
- Location: CHCO

- Approval Required: No
- Grading: Honor/High Pass or Pass/Fail (<4 wks)
- Enrollment: Min: 0 Max: 1

- Sections Available: Not available sections 49-51
- Semester 2-Week Offered: All
- Course Format: Clinical
- Location: CHCO

Additional Information: Students rotate at CHCO and outpatient community physician's office
**PEDS8032 Pediatric Radiology**  
**Duration:** 2 or 4 weeks

**Coordinator:** Michael Baca  
[ michael.baca@childrenscolorado.org ]

**Course Director:** Kari Hayes  
[ kari.hayes@childrenscolorado.org ]

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
- **Enrollment:** Min: 0 Max: 1  
- **Prerequisites:** Students rotate at CHCO and DH

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

**Course Activities:** Morning readout at work stations attend all conferences relevant to practice daily afternoon conferences, procedures, ultrasound and fluoroscopy as available online learning when instructor unavailable

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**PEDS8100 PEDS Elective Away**  
**Duration:** 2 or 4 weeks

**Coordinator:** Michael Baca  
[ michael.baca@childrenscolorado.org ]

**Course Director:** Jennifer Soep  
[ jennifer.soep@ucdenver.edu ]

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Pass/Fail  
- **Enrollment:** Min: 0 Max: 1  
- **Prerequisites:** Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

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

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

**Course Activities:** Activities will vary based on the away site of choice

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**PEDS8600  Research in Pediatrics**

**Coordinator:** Michael Baca  
* michael.baca@childrenscolorado.org

**Course Director:** Jennifer Soep  
* jennifer.soep@ucdenver.edu

**Duration:** 2, 4, 8 or 12 weeks

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

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.

**PEDS8630  PEDS Research Away**

**Coordinator:** Michael Baca  
* michael.baca@childrenscolorado.org

**Course Director:** Jennifer Soep  
* jennifer.soep@ucdenver.edu

**Duration:** 2, 4, 8 weeks

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

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.
PHMD8000  Physical Med & Rehab

**Description:** The elective provides experience in the diagnosis and treatment of patients with pathology of the neurologic and musculoskeletal systems. 4 different locations (VA, DH, UCH, CHC) allow treatment of a variety of conditions related to rehabilitation.

**Course Activities:** Students attend weekly resident lectures and journal clubs, participate in daily rounds, family meetings, and discharge planning. They will be working in conjunction with our residents, fellows, and faculty in providing direct patient care daily.

Residents clinical schedules vary widely from clinical site, section, and supervising attending.

PHMD8100  PHMD Elective Away

**Description:** The elective provides experience in the diagnosis and treatment of patients with pathology of the neurologic and musculoskeletal systems. 4 different locations (VA, DH, UCH, CHC) allow treatment of a variety of conditions related to rehabilitation.

**Course Activities:** Activities will vary based on the away site of choice
### PHMD8600  Research Physical Med

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

**Course Activities:** Scholarly research. Specific activities created by the student and mentor based on the project.

<table>
<thead>
<tr>
<th>Coordinator: Mallory Pridy</th>
<th>Course Director: Scott Laker</th>
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<tr>
<td><a href="mailto:mallory.pridy@ucdenver.edu">mallory.pridy@ucdenver.edu</a></td>
<td><a href="mailto:scott.laker@ucdenver.edu">scott.laker@ucdenver.edu</a></td>
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**Restrictions:**
- Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Additional Information:**

Page 84 of 107
**Preventive Medicine**

**PRMD8003  Specialty Preventive Med**

**Course Director:** Tim Byers  
*tim.byers@ucdenver.edu*

**Coordinator:**

- Sub-I: No
- Longitudinal Course: No
- Approval Required: Yes
- Grading: Pass/Fail
- Enrollment: Min: 1  Max: 4
- Prerequisites: Course Director approval required to add course.

**Description:** 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.

**Course Activities:** Students will have an experience in preventive med tailored to their specific career plans.

**Duration:** 4 weeks

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**Course Format:** Clinical  
**Location:** Away

**Additional Information:** Varied location; arranged between student and course director.

**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  Max: 4  
**Prerequisites:** Course Director approval required to add course.

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**PRMD8006  Dir Study Ethics/Humanit**

**Course Director:** Jackie Glover  
*jackie.glover@ucdenver.edu*

**Coordinator:**

- Sub-I: No
- Longitudinal Course: No
- Approval Required: Yes
- Grading: Pass/Fail
- Enrollment: Min: 1  Max: 99
- Prerequisites: Course Director approval required to add course.

**Description:** 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.

**Course Activities:** Students will complete a final project, either written or presented.

**Duration:** 2, 4, 8 weeks

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**Course Format:** Research/Scholarly Activity  
**Location:** SOM

**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1  Max: 99  
**Prerequisites:** Course Director approval required to add course.

**Additional Information:**
PRMD8100  PRMD Elective Away

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

**Course Activities:** Students will have an experience is preventive med tailed to their specific career plans.

**Duration:** 4 weeks

**Coordinator:**

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1  Max: 4
Prerequisites: Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Course Director:** Tim Byers
tim.byers@ucdenver.edu

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: 
Course Format: Clinical
Location: Away

**Restrictions:**

**PRMD8600  Research Preventive Med**

**Description:** 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.

**Course Activities:** Students will have an experience is preventive med tailed to their specific career plans.

**Duration:** 2, 4, 8 or 12 weeks

**Coordinator:**

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1  Max: 4
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

**Course Director:** Tim Byers
tim.byers@ucdenver.edu

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Research/Scholarly Activity
Location: SOM

**Restrictions:**

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

Course Activities: Students will have an experience is preventive med tailed to their specific career plans.
Psychiatry

PSYM8000  Advanced Adult Inpatient Psychiatry

Coordinator: Sharon Campbell
   sharon.campbell@ucdenver.edu

Course Director: Abraham Nussbaum
   abraham.nussbaum@dhha.org

Duration: 4 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1 Max: 3

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

Description: Evaluate and manage adults hospitalized with psychiatric disorders. In an interdisciplinary team, students learn about psychopathology, psychopharmacology, psychotherapy, and the systems of care for adults with mental illness. Students assume the responsibilities for care of patients typical of interns.

Course Activities:
1. Review the American Psychiatric Association practice guidelines (if available) and other relevant peer-reviewed, evidence-based sources.
2. Diagnose patients using DSM-5 criteria.
3. Formulate patients using developmental, psychological, and biological perspectives.
4. Function at the level of a psychiatric intern.
5. Present an article at the weekly journal club.
**PSYM8001  Prim. Care Subst. Probs.**

**Coordinator:** Elisa Upwood  
[elisa.upwood@ucdenver.edu](mailto:elisa.upwood@ucdenver.edu)

**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Enrollment:** Min: 1 Max: 2  
**Prerequisites:** Course Director approval required to add course. Must contact course director at least 6 weeks before course starts to add.

**Description:** 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.

**Course Activities:** In the first 2 weeks students are scheduled for eight tutorial sessions, each 1-2 hours in length with eight different faculty members; the sessions are to guide students as they formulate their six treatment plans. Separately, they meet for about 3.5 hours with Dr. Riggs for a course orientation, a tutorial, and a review and grading of the written plans (described below). They spend 1-2 hours in adolescent case conferences run by Dr. Sakai. Students see substance-dependent patients with Drs. Sakai and Hoffenberg, each for about 3 hours. They also are responsible for completing a lengthy reading list before writing their final paper.

**PSYM8003  Elective in Psychiatry**

**Coordinator:** Sharon Campbell  
[sharon.campbell@ucdenver.edu](mailto:sharon.campbell@ucdenver.edu)

**Duration:** 2 or 4 weeks

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Pass/Fail  
**Enrollment:** Min: 0 Max: 99  
**Prerequisites:** Pre-approval of course director and coordinator.

**Description:** A student, in conjunction with the office of psychiatry medical student education, chooses to work with patients on an inpatient psychiatry ward, an outpatient clinic, or other psychiatric service (for which another elective is not already available) as a member of a treatment team.

**Course Activities:** Learning activities will vary and must be agreed upon between the course director and supervising faculty member prior to the start of the elective. Learning activities must also be discussed with the student prior to the start of the elective.
PSYM8004  Advanced Child and Adolescent Psych  Duration:  4 weeks

Coordinator: Sharon Campbell  
sharon.campbell@ucdenver.edu  
Course Director: Abraham Nussbaum  
abraham.nussbaum@dhha.org

Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Semester Offered: Summer;Fall;Spring  
Sections Available: Available in all sections  
Course Format: Clinical  
Location: DHMC, CHCO

Grading: Honor/High Pass  
Enrollment: Min: 0  Max: 2

Prerequisites:
Restrictions:

Description: Evaluate and manage children and adolescents hospitalized with psychiatric disorders. As members of an interdisciplinary team, students learn about psychopathology, psychopharmacology, psychotherapy, family therapy, as well as the systems of care for children and adolescents with mental illness.

Course Activities:
1. Review the Academy of Adolescent and Child Psychiatry practice guidelines (if available) and other relevant peer-reviewed, evidence-based sources.
2. Diagnose patients using DSM-5 criteria.
3. Formulate patients using developmental, psychological, and biological perspectives.
4. Function at the level of a psychiatric intern.

Additional details are available in the syllabus.

PSYM8006  Clinical PSYM C/L  Duration:  4 weeks

Coordinator: Sharon Campbell  
sharon.campbell@ucdenver.edu  
Course Director: Abraham Nussbaum  
abraham.nussbaum@dhha.org

Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Semester Offered: Summer;Fall;Spring  
Sections Available: Available in all sections  
Course Format: Clinical  
Location: UCH, DHMC

Grading: Honor/High Pass  
Enrollment: Min: 0  Max: 1

Prerequisites:
Restrictions:

Description: Consultation-Liaison Psychiatry, a board-certified subspecialty, combines knowledge of medical illnesses, psychotherapy, and psychopharmacology, with an ability to forge liaisons within the medical community. Students evaluate and aid patients with psychiatric disorders within medical settings as part of an interdisciplinary team.

Course Activities:
1. Diagnose patients using DSM-5 criteria.
2. Formulate patients using developmental, psychological, and biological perspectives.
3. Function at the level of a psychiatric intern.
4. Critically engage the evidence-based literature.
5. Learn motivational interviewing techniques for the engagement of patients with substance use disorders.
6. Appreciate the close relationship between medical and psychiatric illness and increase the ability to identify delirium and dementia and other syndromes requiring immediate medical intervention.

Additional details are available in the syllabus.
Description: The student will encounter, evaluate and treat a broad range of acute psychiatric difficulties while gaining an appreciation for the ways medical, psychiatric, and psychosocial problems interact in a dedicated psychiatric emergency department. Learn to intervene in a psychiatric crisis, to diagnose mental disorders, and to evaluate lethality.

Course Activities:
1. Review the American Psychiatric Association practice guidelines (if available) and other relevant peer-reviewed, evidence-based sources.
2. Diagnose patients using DSM-5 criteria.
3. Formulate patients using developmental, psychological, and biological perspectives.
4. Function at the level of a psychiatric intern.
5. Work effectively as an integral part of a multidisciplinary team.

Additional details are available in the syllabus.

Description: An introduction to the clinical interface of psychiatry and law. Students participate in the evaluation of people entering pleas of incompetency to stand trial by reason of insanity as well as the treatment and restoration to competency process.

Course Activities:
1. Demonstrate capacity to complete one competency assessment interview under supervision of resident/attending.
2. Demonstrate capacity to complete one competency assessment report for the court.
3. Diagnose patients using DSM-5 criteria.
4. Formulate patients using developmental, psychological, and biological perspectives.
5. Function at the level of a psychiatric intern.

Additional details are available in the syllabus.
**PSYM8009  Clinical PSYM Addiction**

**Coordinator:** Sharon Campbell  
[sharon.campbell@ucdenver.edu](mailto:sharon.campbell@ucdenver.edu)

**Course Director:** Abraham Nussbaum  
[abraham.nussbaum@dhha.org](mailto:abraham.nussbaum@dhha.org)

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Honor/High Pass  
- **Enrollment:** Min: 0  
  Max: 2  

**Description:** Learn the essentials of identification, assessment, and treatment of patients with substance use disorders, with emphasis on screening and brief intervention techniques. Learn the principles of detoxification for alcohol, opioids, cocaine, interpretation of drug testing results, proper prescribing practices, including buprenorphine.

**Course Activities:**
1. Evaluate and diagnose substance use disorders in adults, using DSM-5 criteria.  
2. For each assigned patient, develop and implement a treatment plan specific to substance use disorders.  
3. Formulate patients using developmental, psychological, and biological perspectives.  
4. Exhibit expertise and skill in working with and coordinating a multidisciplinary team for the treatment of a person with a substance use disorder.  
5. Function at the level of a psychiatric intern.

Additional details are available in the syllabus.

**PSYM8010  Clin PSYM Eating Disorders**

**Coordinator:** Sharon Campbell  
[sharon.campbell@ucdenver.edu](mailto:sharon.campbell@ucdenver.edu)

**Course Director:** Abraham Nussbaum  
[abraham.nussbaum@dhha.org](mailto:abraham.nussbaum@dhha.org)

- **Sub-I:** No  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Honor/High Pass  
- **Enrollment:** Min: 0  
  Max: 2  

**Description:** Evaluate and manage patients with eating disorders under the direction of fellows and attendings. Student will gain specific knowledge of classification, epidemiology, etiology, physiology and treatment of eating disorders.

**Course Activities:**
1. Review the American Psychiatric Association practice guidelines and American Academy of Child & Adolescent Psychiatry practice parameters (if available) and other relevant peer-reviewed, evidence-based sources.  
2. Diagnose patients using DSM-5 criteria.  
3. Formulate patients using developmental, psychological, and biological perspectives.  
4. Function at the level of a psychiatric intern.  
5. Actively participate in clinical supervision to include readings, current literature reviews, case discussions, and discussions with team members on psychotherapeutic approaches to individual, group and family work.

Additional details are available in the syllabus.
**PSYM Elective Away**

**Coordinator:** Sharon Campbell  
[sharon.campbell@ucdenver.edu](mailto:sharon.campbell@ucdenver.edu)

**Course Director:** Abraham Nussbaum  
[abraham.nussbaum@dhha.org](mailto:abraham.nussbaum@dhha.org)

**Duration:** 2 or 4 weeks

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<tr>
<td>Prerequisites:</td>
<td>Pre-approval of course director and coordinator. Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.</td>
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**Description:** The Psychiatry elective will be held at a non-affiliate site in Colorado, another state, or internationally. Students must obtain departmental approval one month prior to the start. International sites must be pre-approved by Student Affairs.

**Course Activities:** Learning activities will vary and must be agreed upon between the course director and supervising faculty member prior to the start of the elective. Learning activities must also be discussed with the student prior to the start of the elective.
PSYM8600  Research in Psychiatry

Coordinator: Sharon Campbell
sharon.campbell@ucdenver.edu

Course Director: Joseph Sakai
joseph.sakai@ucdenver.edu

Duration: 2, 4, 8 or 12 weeks

Semester Offered: Summer; Fall; Spring
Sections Available: Available in all sections
Semester 2-Week Offered: All
Course Format: Research/Scholarly Activity
Location: UCH, CHCO, VA, DHMC
Additional Information:

Description: Research in Psychiatry is an elective course for phase IV medical students. Students may focus in various areas of Psychiatry. Contact Randy Ross, MD or Joseph Sakai, MD for a menu of research options. Students must receive prior approval from the Course Director and the Associate Dean for Student Affairs to add the course.

Course Activities: Learning activities must be agreed upon between the course director and research mentor prior to the start of the elective. Learning activities must also be discussed with the student prior to the start of the elective. Based on the research mentor and lab the learning activities will vary but may include:

1.a. Conduct a targeted but in depth literature review. Consider utilizing resources available within their lab or at the Health Sciences library.
1.b. Read and synthesize the collected literature citing their relevance to the lab’s ongoing work or the student’s identified project.
1.c. Review findings with research mentor and together identify gaps in the literature review.
1.d. Continue steps 1.a-c in an iterative process to improve understanding of the extant literature.

2.a. Demonstrate proficiency in basic lab techniques essential to the research project.
2.b. Demonstrate understanding of basic elements of study design.
2.c. Demonstrate basic proficiency with phenotypic assessments, such as structured diagnostic instruments.
2.d. Demonstrate basic understanding of data analysis techniques.

3.a. Develop knowledge about research ethics via ongoing conversations with mentor.
3.b. Develop knowledge about research ethics via completion of courses such as CITI-basic.
3.c. Develop knowledge about research ethics via campus trainings on the topic.

4.a. Presentation of research results at a lab meeting.
4.b. Presentation of research results at a local research meeting.
4.c. Presentation of research results at a national meeting.

5.a. Contribute to ongoing research efforts within the lab by producing scholarly written materials, such as an abstract, review of the literature, or research poster, that the student reviews with mentor.
5.b. Co-author or author a review of the literature with the mentor.
5.c. Co-author or author original research manuscript with the mentor.
RAON8005  Radiation Oncology

Coordinator: Sandra Korn  
sandra.korn@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1  Max: 2
Prerequisites:

Course Director: Christine Fisher  
christine.fisher@ucdenver.edu

Semester Offered: Summer;Fall;
Sections Available: Not Available Sections 25-32
Semester 2-Week Offered:
Course Format: Clinical
Location: UCH, Anschutz Cancer Pavilion
Additional Information: Attend Tumor Boards, Multi-Disciplinary clinics, Chart Rounds, Attending lectures, Resident lectures, Resident Education courses, shadow residents and Attending’s during consults, follow ups, week checks and CT simulations.

Restrictions: Fall term will need to be restricted to only the Aug 31-Sept 25 session and the Sept 28-Oct 23 session.

Description: 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.

Course Activities: Attend Tumor Boards, Multi-Disciplinary clinics, Chart Rounds, Attending lectures, Resident lectures, Resident Education courses, shadow residents and Attending’s during consults, follow ups, week checks and CT simulations.

RAON8100  RAON Elective Away

Coordinator: Sandra Korn  
sandra.korn@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1  Max: 99
Prerequisites: Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Course Director: Christine Fisher  
christine.fisher@ucdenver.edu

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered:
Course Format: Clinical
Location: Away
Additional Information:

Restrictions: Course Format: Clinical
Location: Away
Additional Information:

Description: 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.

Course Activities: Activities will vary based on the away site of choice
RAON8600    Research RAD Oncology

Coordinator: Sandra Korn

Course Director: Christine Fisher

Duration: 4 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1 Max: 2
Prerequisites: Must have completed RAON 8005 & have Dr. Fisher’s approval

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

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.

RAON8630    RAON Research Away

Coordinator: Sandra Korn

Course Director: Christine Fisher

Duration: 2, 4, 8 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 1 Max: 99
Prerequisites: Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions: Additional Information:

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

Course Activities: Scholarly research. Specific activities created by the student and mentor based on the project.
### Diagnostic Radiology

**Code:** RADI8000  
**Duration:** 4 weeks

**Coordinator:** Katelynn Weber  
**Course Director:** James Davidson

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Honor/High Pass
- Enrollment: Min: 1  Max: 4
- Restrictions: Course not available sections 29 and 33.

**Description:** 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.

**Course Activities:** Active work station assessment of both current patients and teaching file studies. Oral discussion of imaging of ED, ICU, inpatient and must see-can't miss" radiographs.

### Nuclear Medicine

**Code:** RADI8002  
**Duration:** 2 or 4 weeks

**Coordinator:** Katelynn Weber  
**Course Director:** Jennifer Kwak

- Sub-I: No
- Longitudinal Course: No
- Approval Required: No
- Grading: Honor/High Pass or Pass/Fail (<4 wks)
- Enrollment: Min: 1  Max: 1
- Restrictions:

**Description:** Nuclear Medicine encompasses the various uses of radiopharmaceuticals 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.

**Course Activities:** The medical student will shadow the radiology residents in the performance of their major duties. Students will be assigned Module 1, which are the goals and objectives given to first year radiology resident during their first month rotation in Nuclear Medicine.
RADI8007  Interventional Radiology                         Duration:  2 or 4 weeks
Coordinator: Katelynn Weber  Course Director: Kimi Kondo
   katelyn.2.weber@ucdenver.edu  kimili.kondo@ucdenver.edu
Sub-I: No  Semester Offered: Summer;Fall;Spring
Longitudinal Course: No  Sections Available: Not Available Sections 45-48
Approval Required: Yes: for 2wk course  Semester 2-Week Offered: All
Grading: Honor/High Pass or Pass/Fail (<4 wks)  Course Format: Clinical
Enrollment: Min: 1 Max: 4  Location: UCH
Prerequisites:  Additional Information: 2 week courses require director approval.
Restrictions: During May – November, maximum of 1 student taking the 2-week course. Courses not offered during sections 45-48

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

Course Activities: Medical students attend morning rounds with the IR attendings, fellows, residents, and physician assistants during which the cases for the day are discussed. Inpatients on the service are also discussed and ongoing clinical issues addressed. Students are to scrub in and assist on procedures throughout the day and are expected to follow 1-2 inpatients per week on the floor. Students will take weekday and/or weekend call. Students will use the PACS to review patient’s prior and current imaging and the EMR to review laboratory values and relevant clinical information. Students attend all IR conferences that include a weekly didactic IR conference and a multidisciplinary vascular medicine conference. They can also attend the daily radiology resident noon conference. “Bedside” learning and teaching occurs throughout the day and there are informal teaching sessions in between cases. Interventional radiology handbooks and texts are also readily available for additional or more in-depth learning.

RADI8100  RADI Elective Away                             Duration:  2 or 4 weeks
Coordinator: Katelynn Weber  Course Director: Kimi Kondo
   katelyn.2.weber@ucdenver.edu  kimili.kondo@ucdenver.edu
Sub-I: No  Semester Offered: Summer;Fall;Spring
Longitudinal Course: No  Sections Available: Available in all sections
Approval Required: Yes  Semester 2-Week Offered: All
Grading: Pass/Fail  Course Format: Clinical
Enrollment: Min: 1 Max: 99  Location: Away
Prerequisites: The student must receive approval from the Associate Dean for Student Affairs and the Course Director one month in advance. For rotation approval, students must first provide name, address, email address and phone number of the preceptor or away course director.

Restrictions:  Additional Information:

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

Course Activities: Activities will vary based on the away site of choice.

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RADI8600  Research in Radiology

**Coordinator:** Katelynn Weber
katelynn.2.weber@ucdenver.edu

**Course Director:** Kimi Kondo
kimi.kondo@ucdenver.edu

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1  Max: 4

**Prerequisites:** Approval must be obtained from the course director prior to starting the course. For rotation approval, the student must provide: 1) Name and contact information for the research mentor (address, email address and phone number); 2) Approval from the mentor.

**Restrictions:**

**Description:** Phase 4 medical students perform clinical or basic science research under the supervision of a Radiology faculty member. Project is defined with individual mentor and approved by course director. Course is graded on a pass/fail basis.

**Duration:** 2, 4, 8 or 12 weeks

**Course Activities:** Students will work with a faculty member on a research project. Activities can include literature search, data collection and analysis, writing abstract, protocol, IRB application, and manuscript.

RADI8630  RADI Research Away

**Coordinator:** Katelynn Weber
katelynn.2.weber@ucdenver.edu

**Course Director:** Kimi Kondo
kimi.kondo@ucdenver.edu

**Sub-I:** No

**Longitudinal Course:** No

**Approval Required:** Yes

**Grading:** Pass/Fail

**Enrollment:** Min: 1  Max: 99

**Prerequisites:** The student must receive approval from the Associate Dean for Student Affairs and the Course Director one month in advance. For rotation approval, students must first provide name, address, email address and phone number of the preceptor or away course director.

**Restrictions:**

**Description:** Phase 4 medical students perform clinical or basic science research under the supervision of a Radiology faculty member. Project is defined with individual mentor and approved by course director. Course is graded on a pass/fail basis.

**Course Activities:** Students will work with a faculty member on a research project. Activities can include literature search, data collection and analysis, writing abstract, protocol, IRB application, and manuscript.
### Surgery

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<tr>
<td>SURG8001</td>
<td>Gen Surg DHMC Sub-I</td>
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#### SURG8000  Gen Surg Univ Sub-I

**Coordinator:** Mary Kay Anderson  
[mary.k.anderson@ucdenver.edu](mailto:mary.k.anderson@ucdenver.edu)

**Course Director:** Thomas Whitehill  
[thomas.whitehill@va.gov](mailto:thomas.whitehill@va.gov)

- **Sub-I:** Yes
- **Longitudinal Course:** No
- **Approval Required:** No
- **Grading:** Honor/High Pass
- **Enrollment:** Min: 1  Max: 5
- **Prerequisites:**
  - **Restrictions:** Max enrollment of only 4 in sections 17, 21, 25, 29.

**Description:** Students perform intern responsibilities on General Surgery 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.

**Course Activities:** Students are expected to function like interns on the surgery teams with full responsibilities and expectations. The rotation emphasizes professionalism, system-based practice and communication skills important for interprofessional cooperation. Additional focus is placed on patient care and safety culture including SBAR communication methodology, hand-offs, and sign-out skills. Students can choose from one of five surgical specialty team assignments. The educational goals and teaching strategies adopted across this surgery sub-I rotation are geared towards preparing graduating students to be better prepared for their duties as interns functioning under senior supervision. On-call duties will be assigned and are usually one to two nights per week. Students have the same duty hours as an R2 resident. University of Colorado students have to complete a CAPE session where they have two Standardized Patient experiences. These are not graded. One has to do with informed consent and the other delivering bad news to a patient and their family. There are no papers or exam for this course.

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<td>SURG8001</td>
<td>Gen Surg DHMC Sub-I</td>
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**Coordinator:** Lance Loveday  
[lance.loveday@dhha.org](mailto:lance.loveday@dhha.org)

**Course Director:** Carlton Barnett  
[carlton.barnett@dhha.org](mailto:carlton.barnett@dhha.org)

- **Sub-I:** Yes
- **Longitudinal Course:** No
- **Approval Required:** No
- **Grading:** Honor/High Pass
- **Enrollment:** Min: 1  Max: 3
- **Prerequisites:** Course director approval required to add this course. A mentor will be required.

**Description:** Acute Care Surgery Team at a Level I Trauma Center. Course emphasizes pre- and postoperative evaluation, O.R. decisions making and clinical research. Student will attend clinics, rounds, conferences and surgical procedures. A Faculty Mentor is for the research component.
SURG8002  Gen Surg St Joseph’s Sub-I

Coordinator: Laurie Cooper
lauriejoanne.cooper@sclhs.net

Course Director: G. Edward Kimm
g.edward.kimm@sclhs.net

Sub-I: Yes
Longitudinal Course: No
Approval Required: No

Grading: Honor/High Pass
Enrollment: Min: 1  Max: 2
Prerequisites: 
Restrictions:

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

Course Activities: Students are expected to complete 3 call shifts. Students will act like an intern on the team.

Duration: 4 weeks

SURG8008  Cardiothoracic Surg Sub I

Coordinator: Linsey Kasper
linsey.kasper@ucdenver.edu

Course Director: David Fullerton
david.fullerton@ucdenver.edu

Sub-I: Yes
Longitudinal Course: No
Approval Required: No

Grading: Honor/High Pass
Enrollment: Min: 1  Max: 2
Prerequisites: 
Restrictions:

Description: Adult cardiac and general thoracic surgery and critical care monitoring on the Cardiothoracic Service at UH and Denver VA. Students will participate in preoperative, operative and postoperative care.

Course Activities: Students will attend rounds and conferences and will function like an intern on the team.

Duration: 4 weeks
SURG8010  Burn Critical Care/Surg  

**Coordinator:** Trina Smidt  
trina.smidt@ucdenver.edu  

**Course Director:** Gordon Lindberg  
gordon.lindberg@ucdenver.edu  

**Description:** Acting sub-intern on the Burn Service, works with Burn and related Surgical Critical Care cases. High level of patient care responsibility, including bedside procedures, burn care, and line changes. Works with attending faculty to gain a multidisciplinary approach to burns.

**Course Activities:** Morning Rounds, Discharge Rounds, Burn Surgery Day, Multidisciplinary Rounds, Burn Clinic

**Duration:** 4 weeks

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SURG8011  Hand Surgery  

**Coordinator:** Mandy Whitton  
mandy.whitton@ucdenver.edu  

**Course Director:** Mickey Gordon  
mickey.gordon@ucdenver.edu  

**Description:** 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.

**Course Activities:** The student will participate as a member of the plastic surgery team including rounding on inpatients, participating in the OR and observing patients in clinic.

**Duration:** 4 weeks
### SURG8012  Urology Sub-I

**Coordinator:** Ashley Lane  
[ashley.2.lane@ucdenver.edu](mailto:ashley.2.lane@ucdenver.edu)

**Course Director:** Ty Higuchi  
[ty.higuchi@ucdenver.edu](mailto:ty.higuchi@ucdenver.edu)

**Duration:** 4 weeks

**Sub-I:** Yes  
**Longitudinal Course:** No  
**Approval Required:** Yes  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 1  Max: 6

**Prerequisites:**

- All students must contact course director for permission to enroll.

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

**Course Activities:** Students will participate in clinic, minor clinical procedures (cystoscopy, prostate biopsy, vasectomy, botox injections, circumcision, etc), urologic inpatient and outpatient surgeries, hospital consults and rounding on inpatients. The duration of the course is 4 weeks and will be divided into two week blocks at UCH, CHCO, or DH. The blocks will be divided into one week with the residents and one week with an assigned attending. The resident week will allow students to become familiar with the day to day responsibilities of urology residents and allow you to familiarize yourself with the hospital system. The second week will be with an assigned attending physician and you will be expected to function as their intern on their service and participate in their clinic, urologic surgeries and round on all of their inpatients. All Urology Conferences are mandatory and you will be required to give a Grand Rounds presentation on a urology topic of your choice.

### SURG8015  Pediatric Surgery

**Coordinator:** Melissa Gray  
[melissa.gray@childrenscolorado.org](mailto:melissa.gray@childrenscolorado.org)

**Course Director:** Jonathan Roach  
[jonathan.roach@childrenscolorado.org](mailto:jonathan.roach@childrenscolorado.org)

**Duration:** 2 or 4 weeks

**Sub-I:** Available

- Summer; Fall; Spring

**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Enrollment:** Min: 1  Max: 1

**Prerequisites:**

**Description:** 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.

**Course Activities:** The student will join the Pediatric Surgery team (fellows, residents, midlevels); Participate in operating room, attending outpatient clinic, assist with evaluations in the Emergency Department and inpatient. Limited overnight call experience is available, but not mandatory.
SURG8019  Plastic Surgery  

**Description:** Students learn basic principles of wound healing, care, and management; management and reconstruction of maxillofacial trauma; head and neck cancer; congenital anomalies; tissue transplantation; breast reconstruction, cosmetic surgery; and management of post-surgical patients.

**Course Activities:** The student will participate as a member of the plastic surgery team including rounding on inpatients, participating in the OR and observing patients in clinic.

**Coordinator:** Mandy Whitton  
mary.whitton@ucdenver.edu

**Course Director:** Ashley Ignatiuk  
ashley.ignatiuk@ucdenver.edu

**Duration:** 4 weeks

Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass or Pass/Fail (<4 wks)  
Enrollment: Min: 1 Max: 1

**Course:** No Longitudinal Course: No  
Approval Required: No  
Grading: Pass/Fail  
Enrollment: Min: 1 Max: 1

**Restrictions:**

**Additional Information:**

SURG8020  Vascular Surg Research

**Description:** 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.

**Coordinator:** Mary Kay Anderson  
mary.k.anderson@ucdenver.edu

**Course Director:** Mark Nehler  
mark.nehler@ucdenver.edu

**Duration:** 4, 8 or 12 weeks

Sub-I: No  
Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1 Max: 2

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

**Additional Information:**

**Course:** No Longitudinal Course: No  
Approval Required: Yes  
Grading: Pass/Fail  
Enrollment: Min: 1 Max: 2

**Restrictions:**

**Additional Information:**
SURG8021  Surgical Critical Care Sub-I  

**Coordinator:** Lance Loveday  
[Mail] lance.loveday@dhha.org  

**Sub-I:** Yes  
**Longitudinal Course:** No  
**Approval Required:**  
  - **Grading:** Honor/High Pass  
  - **Enrollment:** Min: 1  Max: 2  
  - **Prerequisites:**  
  - **Restrictions:**  

**Description:** 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 ill pts.  

**Duration:** 4 weeks  

**Course Director:** Carlton Barnett  
[Mail] carlton.barnett@dhha.org  

**Semester Offered:** Summer;Fall;Spring  
**Sections Available:**  
**Semester 2-Week Offered:**  
**Course Format:** Clinical  
**Location:**  
**Additional Information:**  

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SURG8030  Transplant Surgery  

**Coordinator:** Bretlyn Davis  
[Mail] bretlyn.davis@ucdenver.edu  

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:**  
  - **Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
  - **Enrollment:** Min: 1  Max: 3  
  - **Prerequisites:**  
  - **Restrictions:**  

**Description:** The medical student will round with the transplant team, such as: surgeons, nephrologists, and hepatologists. They will be exposed to all aspects of transplant care including preoperative work up, such as: donor surgery, transplant surgery and post-operative care.  

**Course Activities:** The student will assess each patient on the service, develop a plan, and present the patient on rounds. The student will implement the plan on follow up on the results. the student will participate in transplant operations.  

**Duration:** 4 weeks  

**Course Director:** Trevor Nydam  
[Mail] trevor.nydam@ucdenver.edu  

**Semester Offered:** Summer;Fall;Spring  
**Sections Available:** Available in all sections  
**Semester 2-Week Offered:**  
**Course Format:** Clinical  
**Location:** UCH  
**Additional Information:**  

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SURG8100  SURG Elective Away

Coordinator:  Mary Kay Anderson
  mary.k.anderson@ucdenver.edu

Sub-I:  No  
Longitudinal Course:  No  
Approval Required:  Yes  
Grading:  Pass/Fail  
Enrollment:  Min: 1  Max: 99  
Prerequisites:  Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:  Not available sections 49-50.

Description:  This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Life, and there may be additional requirements for these. The student needs to send Approval for Course Work Away form to Dr. Thomas Whitehill, with a cc to Mary Kay Anderson, for approval which will then be sent to Student Life for final approval. This needs to be completed at least one month in advance.

Course Activities:  Determined by the institution where the Away Course is being taken.

Duration:  4 weeks
Course Director:  Thomas Whitehill  thomas.whitehill@va.gov
Semester Offered:  Summer;Fall;Spring
Sections Available:  Not Available Sections 49-50
Semester 2-Week Offered:  
Course Format:  Clinical  
Location:  Away  
Additional Information:  This elective will be held at a site in Colorado, another state, or internationally. International sites must be preapproved by Student Life, and there may be additional requirements for these. The student needs to send Approval for Course Work Away form to Dr. Thomas Whitehill, with a cc to Mary Kay Anderson, for approval which will then be sent to Student Life for final approval. This needs to be completed at least one month in advance.

SURG8600  Research in Surgery

Coordinator:  Mary Kay Anderson
  mary.k.anderson@ucdenver.edu

Sub-I:  No  
Longitudinal Course:  No  
Approval Required:  Yes  
Grading:  Pass/Fail  
Enrollment:  Min: 1  Max: 99  
Prerequisites:  Individual arrangements must be completed, then the Application for Research Credit form is submitted to Thomas A. Whitehill, MD (cc: Mary Kay Anderson, Coordinator) for approval. Then the form is sent to Student Life for final approval. Arrangements must

Restrictions:  

Description:  This Research Surgery elective will be held at a site in Colorado or another state. Students must obtain departmental approval one month prior to the start. A research mentor must be designated at the time of Departmental approval.

Course Activities:  Determined by the student and the Principal Investigator they are working with.

Duration:  2, 4, 8 or 12 weeks
Course Director:  Thomas Whitehill  thomas.whitehill@va.gov
Semester Offered:  Summer;Fall;Spring
Sections Available:  Not Available Sections 49-50
Semester 2-Week Offered:  All  
Course Format:  Research/Scholarly Activity  
Location:  SOM  
Additional Information:  

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SURG8630   SURG Research Away

Coordinator:  Mary Kay Anderson
   mary.k.anderson@ucdenver.edu

Course Director:  Thomas Whitehill
   thomas.whitehill@va.gov

Duration:  2, 4, 8 or 12 weeks

Sub-I:  No
Longitudinal Course:  No
Approval Required:  Yes
Grading:  Pass/Fail
Enrollment:  Min: 1  Max: 99

Prerequisites:  Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start.

Restrictions:  Not available sections 49-50

Description:  This research elective will be held at a site in Colorado, another state, or internationally. Individual arrangements must be completed then Department approval must be obtained, then approval by the Assistant Dean for Student Affairs. Arrangements must be completed at least one month in advance of start. International sites must be pre-approved by Student Life. There may be additional requirements for these.

Course Activities:  Determined by the student and the Principal Investigator they are working with.

Course Format:  Research/Scholarly Activity
Location:  Away

Additional Information: