# Anesthesiology

**Course Code:** ANES8000  
**Course Name:** Clinical Anesthesiology  
**Duration:** 2 or 4 weeks

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

**Course Director:** Bryan Ahlgren  
[bryan.ahlgren@ucdenver.edu](mailto:bryan.ahlgren@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

**Semester Offered:** Summer;Fall;Spring  
**Sections Available:** Available in all sections

**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:** CHCO, DHMC

**Accept Visiting Students:** MD: Yes  
**Int'l:** Yes

**Restrictions:**

**Additional Information:**

**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.
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.

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

**Description:** 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.

**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.

**Duration:** 2 or 4 weeks

**Coordinator:** Krystle Wetherbee  
krystle.wetherbee@ucdenver.edu  
**Course Director:** Bryan Ahlgren  
bryan.ahlgren@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:**  
**Restrictions:**  
**Sections Offered:** Summer;Fall;Spring  
**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:**  
**Additional Information:**  
Accept Visiting Students:  
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ANES8600  Research Anesthesiology

**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.

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

**Coordinator:** Krystle Wetherbee  
krystle.wetherbee@ucdenver.edu  
**Course Director:** Paul Wischmeyer  
paul.wischmeyer@ucdenver.edu

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

**DERM8001  Dermatology Clerkship**  
**Coordinator:** Amina Hashem  
amina.hashem@ucdenver.edu  
**Course Director:** Cory Dunnick  
**Duration:** 4 weeks  
**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 1 Max: 4  
**Restrictions:** 4 week rotations only  
**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.  
**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.

**DERM8600  Research in Dermatology**  
**Coordinator:** Amina Hashem  
amina.hashem@ucdenver.edu  
**Course Director:** Cory Dunnick  
**Duration:** 2, 4, 8 or 12 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:** 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.  
**Accept Visiting Students:** MD: Yes DO: No Int'l: No
Emergency Medicine

**EMED8004 Emergency Med Univ Hosp**

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

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

**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: 4

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

**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.

**EMED8005 Emergency Medicine DHMC**

**Coordinator:** Marie Bluitt  
marie.bluitt@dhha.org

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

**Duration:** 4 weeks

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

**Grading:** Honor/High Pass  
**Enrollment:** Min: 1  Max: 4

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

**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.
EMED8006 Emer Med Career Elective

**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.

**Course Format:** Clinical

**Duration:** 4 weeks

**Coordinator:** Marie Bluitt marie.bluitt@dhha.org

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

**Approval Required:** No

**Longitudinal Course:** No

**Grading:** Honor/High Pass

**Enrollment:** Min: 1 Max: 14

**Prerequisites:** Emergency Medicine Career track students until Section 21.

**Restrictions:** Accept Visiting Students: MD: Yes DO: No Int'l: No

EMED8017 PEDS Emergency DHMC

**Description:** 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.

**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 Format:** Clinical

**Duration:** 2 or 4 weeks

**Coordinator:** Marie Bluitt marie.bluitt@dhha.org

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

**Approval Required:** Yes

**Longitudinal Course:** No

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

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

**Prerequisites:** Department approval must be obtained and then approval by the Associate Dean for Student Affairs.

**Restrictions:** Accept Visiting Students: MD: Yes DO: No Int'l: No

**Additional Information:** Experience at Denver Health Medical Center. See PEDS 8025 for experience at Children's Hospital Colorado.
EMED8024  Clinical Toxicology

Coordinator: Darlene Vigil
darlene.vigil@rmpdc.org

Course Director: Chris Hoyte
christopher.hoyte@ucdenver.edu

Duration: 4 weeks

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

Prerequisites: 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.

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.

EMED8031  Wilderness Medicine

Coordinator: Cathy Maciel
cathy.maciel@ucdenver.edu

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

Duration: 2 weeks

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.

Accept Visiting Students: MD: Yes  DO: No  Int'l: No

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.
**Description:** 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).

**Course Activities:** 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.

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**FMMD8007 Out-Patient Family Med**

**Coordinator:** Lisa Martinez  
**Course Director:** Caroline LeClair

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

**Duration:** 4 weeks

**Semester Offered:** Fall;Spring  
**Sections Available:** Available Sections 17-52  
**Course Format:** Clinical  
**Location:** UCH

**Description:** 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.

**Course Activities:** Students will engage in all patient care and team responsibilities and activities in the care of patients at AF Williams...
IDPT8018  Global Health & Disaster  

**Coordinator:** Michelle Shiver  
**Course Director:** Stephen Berman  

- Semester: Fall  
- Sections: Available Section 23-24 only  
- Semester 2-Week: Fall  
- Course Format: Didactic  
- Location: SOM  
- 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.

IDPT8030  Laboratory Medicine  

**Coordinator:** Gretchen Haroldson  
**Course Director:** Mary Berg  

- Semester: Fall  
- Sections: Available Sections 17-32 Only  
- Semester 2-Week:  
- Course Format: Didactic  
- Location: SOM  
- Prerequisites:  

**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.
**Medicine**

**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: 1
- Prerequisites: 

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

- Semester Offered: Summer;Fall;Spring
- Sections Available: Available in all sections
- 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 med
- Accept Visiting Students: MD: Yes DO: Yes Int'l: No

**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
Coordinator Email: ashley.hurley@ucdenver.edu

Duration: 2 or 4 weeks

Course Director: Peter Buttrick
Course Director Email: peter.buttrick@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: No

Semester Offered: Summer; Fall; Spring

Sections Available: Available in all sections for 4 week; available Spring semester for 2 week.

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

Enrollment: Min: 1 Max: 3

Additional Information: Accept Visiting Students: MD: Yes DO: Yes Int'l: No

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 cardiologist attending.

MEDS8006  Allergy/Clin Immunology

Coordinator: Jeanne Kittle
Coordinator Email: jeanne.kittle@ucdenver.edu

Duration: 2 or 4 weeks

Course Director: Jenny Stitt
Course Director Email: jenny.stitt@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: Yes

Semester Offered: Summer; Fall; Spring

Sections Available:

Course Format: Clinical

Location: UCH

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

Enrollment: Min: 1 Max: 1

Additional Information: Accept Visiting Students: MD: Yes DO: No Int'l: No

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

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

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: 1  Max: 3

Prerequisites:

Restrictions:

Accept Visiting Students: MD: Yes  DO: Yes  Int’l: No

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.

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  Duration:  2 or 4 weeks

Coordinator:  Hannah Daniels  
  hannah.daniels@ucdenver.edu

Course Director:  J. David Beckham  
  david.beckham@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:  
Restrictions:  2 week rotations offered anytime per Course Director

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  Duration:  2 or 4 weeks

Coordinator:  Kia Silverman  
  kia.silverman@ucdenver.edu

Course Director:  Joel Levine  
  joel.levine@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  
Prerequisites:  
Restrictions:  

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.
**MEDS8011 Pulmonary**  
**Coordinator:** Jessica Preble  
jessica.preble@ucdenver.edu  
**Duration:** 4 weeks  
**Course Director:** Joseph Crossno  
joseph.crossno@ucdenver.edu  
**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 1 Max: 2  
**Prerequisites:**  

**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.

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**MEDS8012 Clinical Rheumatology**  
**Coordinator:** Shirley Hanson  
shirley.hanson@ucdenver.edu  
**Duration:** 4 weeks  
**Course Director:** Robert Janson  
robert.janson@ucdenver.edu  
**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 1 Max: 1  
**Prerequisites:**  

**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

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

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: 1  Max: 2
Prerequisites:

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.

Accept Visiting Students: MD: Yes  DO: Yes  Int'l: No

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  

**Coordinator:** Theresa Martinez  
theadminz@ucdenver.edu  

**Course Director:** Paul Seligman  
paul.seligman@ucdenver.edu  

**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: 1 Max: 1  
**Additional Information:** Accept Visiting Students: MD: Yes DO: Yes Int'l: No  

**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.  

Meds8023 - Medicine Consult  

**Coordinator:**  
**Course Director:** Mary Anderson  
mary.anderson@ucdenver.edu  

**Duration:** 2 or 4 weeks  

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Pass/Fail  
**Enrollment:** Min: 1 Max: 2  
**Additional Information:** Accept Visiting Students: MD: Yes DO: No Int'l: No  

**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.
MEDS8025 Medical Oncology

Coordinator: Elaine Lam

Course Director: Elaine Lam

elaine.lam@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: No

Grading: Honor/High Pass

Enrollment: Min: 1 Max: 1

Prerequisites:

Restrictions:

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.

Duration: 4 weeks

MEDS8037 Critical Care UH

Coordinator: Michelle Kerklo

Course Director: Ellen Burnham

michelle.kerklo@ucdenver.edu

elen.burnham@ucdenver.edu

Sub-I: No

Longitudinal Course: No

Approval Required: No

Grading: Honor/High Pass

Enrollment: Min: 1 Max: 2*

Prerequisites: Sub I in Medicine or Surgery.

Restrictions: *Maximum enrollment is "1" for Sections 45, 5, 9, 33

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.

Duration: 4 weeks
**MEDS8038 CAM Wellness**

**Course Director:** Lisa Corbin  
[Contact Information]

**Coordinator:**

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

**Duration:** 2 or 4 weeks  

**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.

**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

**MEDS8039 AIDS & American Culture**

**Course Director:** Therese Jones  
[Contact Information]

**Coordinator:** Amanda McGuigan  
[Contact Information]

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

**Duration:** 2 weeks  

**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.

**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.
MEDS8040 Film and Mental Illness

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

Sub-I: No
Longitudinal Course: No
Approval Required: Yes
Grading: Pass/Fail
Enrollment: Min: 6 Max: 40
Prerequisites: Offered Section 43 only.

Additional Information: Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

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.

Duration: 4 weeks

Coordinator: Holly Ables
holly.ables@ucdenver.edu

Course Director: Pearce Korb
pearce.korb@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1 Max: 3
Prerequisites: Offered Section 43 only.

Additional Information: Rotation is M-F 8a-5pm. No call. No papers or presentations required.

Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered:
Course Format: Clinical
Location: UCH
Additional Information:
Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

Min: Sub-I: No
Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

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: 40
Prerequisites: Offered Section 43 only.

Additional Information: Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

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.

Duration: 4 weeks

Coordinator: Holly Ables
holly.ables@ucdenver.edu

Course Director: Pearce Korb
pearce.korb@ucdenver.edu

Sub-I: No
Longitudinal Course: No
Approval Required: No
Grading: Honor/High Pass
Enrollment: Min: 1 Max: 3
Prerequisites: Offered Section 43 only.

Additional Information: Rotation is M-F 8a-5pm. No call. No papers or presentations required.

Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes

Semester Offered: Summer;Fall;Spring
Sections Available: Available in all sections
Semester 2-Week Offered:
Course Format: Clinical
Location: UCH
Additional Information:
Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes
Neurosurgery

NSUR8014  Neurosurgery Sub-I

Coordinator: Sophie Eggert
sophie.eggert@ucdenver.edu
Course Director: Yasuaki Harasaki
yasuaki.harasaki@dhha.org
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
Restrictions: Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes
Duration: 4 weeks

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.

NSUR8600  Research in Neurosurgery

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: Accept Visiting Students: MD: No DO: Yes Int'l: Yes
Duration: 2, 4, 8 or 12 weeks

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.
## Obstetrics And Gynecology

### OBGY8000  General Obstetrics Sub-I

<table>
<thead>
<tr>
<th>Coordinator:</th>
<th>Lorrie Quintana</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><a href="mailto:lorrie.quintana@dhha.org">lorrie.quintana@dhha.org</a></td>
</tr>
<tr>
<td>Sub-I:</td>
<td>Yes</td>
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<td>Longitudinal Course:</td>
<td>No</td>
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<tr>
<td>Approval Required:</td>
<td>No</td>
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<tr>
<td>Grading:</td>
<td>Honor/High Pass</td>
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<tr>
<td>Enrollment:</td>
<td>Min: 1 Max: 1</td>
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<tr>
<td>Prerequisites:</td>
<td></td>
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<td>Restrictions:</td>
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</tr>
<tr>
<td>Description:</td>
<td>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.</td>
</tr>
<tr>
<td>Course Activities:</td>
<td>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.</td>
</tr>
<tr>
<td>Course Director:</td>
<td>Jennifer Hyer</td>
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<tr>
<td></td>
<td><a href="mailto:jennifer.hyer@dhha.org">jennifer.hyer@dhha.org</a></td>
</tr>
<tr>
<td>Duration:</td>
<td>4 weeks</td>
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<tr>
<td>Semester Offered:</td>
<td>Summer;Fall;Spring</td>
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<tr>
<td>Sections Available:</td>
<td>Available in all sections</td>
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<tr>
<td>Semester 2-Week Offered:</td>
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<tr>
<td>Course Format:</td>
<td>Clinical</td>
</tr>
<tr>
<td>Location:</td>
<td>DHMC</td>
</tr>
<tr>
<td>Additional Information:</td>
<td>q3 call, 1 day off every 7 days averaged over 4 weeks.</td>
</tr>
<tr>
<td>Accept Visiting Students:</td>
<td>MD: Yes DO: No Int'l: No</td>
</tr>
</tbody>
</table>

### OBGY8001  General Gynecology Sub-I

<table>
<thead>
<tr>
<th>Coordinator:</th>
<th>Lorrie Quintana</th>
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<tbody>
<tr>
<td></td>
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</tr>
<tr>
<td>Sub-I:</td>
<td>Yes</td>
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<tr>
<td>Longitudinal Course:</td>
<td>No</td>
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<tr>
<td>Grading:</td>
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<tr>
<td>Enrollment:</td>
<td>Min: 1 Max: 1</td>
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<tr>
<td>Prerequisites:</td>
<td></td>
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<td>Restrictions:</td>
<td></td>
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<tr>
<td>Description:</td>
<td>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.</td>
</tr>
<tr>
<td>Course Activities:</td>
<td>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.</td>
</tr>
<tr>
<td>Course Director:</td>
<td>Jennifer Hyer</td>
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<tr>
<td></td>
<td><a href="mailto:jennifer.hyer@dhha.org">jennifer.hyer@dhha.org</a></td>
</tr>
<tr>
<td>Duration:</td>
<td>4 weeks</td>
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<tr>
<td>Semester Offered:</td>
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<td>Course Format:</td>
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<tr>
<td>Location:</td>
<td>DHMC</td>
</tr>
<tr>
<td>Additional Information:</td>
<td>q3 call, 1 day off every 7 averaged over 4 weeks.</td>
</tr>
<tr>
<td>Accept Visiting Students:</td>
<td>MD: Yes DO: No Int'l: No</td>
</tr>
</tbody>
</table>
**OBGY8004  High Risk Maternal/Fetal 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.

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

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

**Duration:** 4 weeks

**Approval Required:** No

**Sections Available:** Available in all sections

**Course Format:** Clinical

**Location:** UCH

**Additional Information:** 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.

**Sub-I:** Yes

**L:** No

**Accept Visiting Students:** MD: Yes  DO: No  Int'l: No

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

**Prerequisites:**

**Restrictions:**

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**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.

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

**Course Director:** Jaime Arruda  
jaime.arruda@ucdenver.edu

**Duration:** 4 weeks

**Approval Required:** No

**Sections Available:** Available in all sections

**Course Format:** Clinical

**Location:** UCH

**Additional Information:**

**Accept Visiting Students:** MD: Yes  DO: No  Int'l: No

**Sub-I:** Yes

**L:** No

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

**Prerequisites:**

**Restrictions:**
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

Approval Required:  No

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

Enrollment:  Min: 1  Max: 1

Restrictions:  2 week rotations offered with special arrangement with course director only. Only offered in Fall and Spring.

OGBY8012  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

Approval Required:  No

Grading:  Honor/High Pass

Enrollment:  Min: 1  Max: 1

Additional Information:  Accept Visiting Students:  MD: Yes  DO: No  Int'l: No
### Ophthalmology

**OPHT8000  Ophthalmology**

**Duration:** 2 or 4 weeks

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

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

**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.

### Orthopedic

**ORTH8000  Orthopaedic Surgery Sub-I**

**Duration:** 4 weeks

**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)

**Sub-I:** Yes  
**Longitudinal Course:** No  
**Approval Required:** No  
**Grading:** Honor/High Pass  
**Enrollment:** Min: 1 Max: 8

**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.
### Otolaryngology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Coordinator(s)</th>
<th>Course Director(s)</th>
<th>Semester Offered</th>
<th>Sections Available</th>
<th>Approval Required</th>
<th>Course Format</th>
<th>Location</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>OTOL8000</td>
<td>Clinical Otolaryngology</td>
<td>2 or 4 weeks</td>
<td>Vicki Muscatello</td>
<td>Adam Terella</td>
<td>Summer;Fall;Spring</td>
<td>Available in all sections</td>
<td>No</td>
<td>Clinical</td>
<td>UCH, CHCO</td>
<td>course is offered throughout the year; 4 week blocks during June-September, 2 week blocks October-May. Students applying for Otolaryngology residency should select the 4 week block.</td>
</tr>
</tbody>
</table>

**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.

### Pathology

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Name</th>
<th>Duration</th>
<th>Coordinator(s)</th>
<th>Course Director(s)</th>
<th>Semester Offered</th>
<th>Sections Available</th>
<th>Approval Required</th>
<th>Course Format</th>
<th>Location</th>
<th>Restrictions</th>
</tr>
</thead>
<tbody>
<tr>
<td>PATH8000</td>
<td>Pathology</td>
<td>2 or 4 weeks</td>
<td>Gretchen Haroldson</td>
<td>Miriam Post</td>
<td>Summer;Fall;Spring</td>
<td>Available in all sections</td>
<td>No</td>
<td>Clinical</td>
<td>UCH, CHCO</td>
<td>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. 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.</td>
</tr>
</tbody>
</table>

**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.
### PEDS8000  Pediatric Sub-I

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

- **Sub-I:** Yes  
- **Longitudinal Course:** No  
- **Approval Required:** No  
- **Grading:** Honor/High Pass  
- **Enrollment:** Min: 0  Max: 4  
- **Prerequisites:**  
- **Restrictions:**  

**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.

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

**Duration:** 4 weeks  

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Available in all sections  

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### PEDS8004  Pediatric Cardiology

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

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

**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.

**Course Activities:** Students are expected to be present and prepared for all daily patient-related activities and learning experiences. There is no night call during this rotation, but there are opportunities to attend outreach clinics.

**Course Director:** Michael Schaffer  
* michael.schaffer@childrenscolorado.org  

**Duration:** 4 weeks  

**Semester Offered:** Summer; Fall; Spring  
**Sections Available:** Not available Section 49  

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**Additional Information:** Students rotate at CHCO and DH  

**Accept Visiting Students:** MD: Yes  DO: Yes  Int'l: Yes
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 is 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*

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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  
*rabinovitchn@njhealth.org*

**Coordinator:** Mariama Sannoh

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**Duration:** 4 weeks
**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.

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

**Course Director:** Andrew Sirotnak  
andrew.sirotnak@childrenscolorado.org

**Duration:** 4 weeks

**Course Format:** Clinical

**Location:**

Additional Information: Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes

**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.

**Course:**

**Activities:** There is no night call during this rotation.

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

**Course Director:** Margarita Saenz  
margarita.saenz@childrenscolorado.org

**Duration:** 4 weeks

**Course Format:** Clinical

**Location:** CHCO

Additional Information: Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes

**Prerequisites:**

**Restrictions:**

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

**Sections Available:** Not available sections 49-51

**Semester 2-Week Offered:** Not Available Sections 9-12
**PEDS8009  Peds Infectious Disease**

**Coordinator:** Michael Baca  
[childrenscolorado.org](http://childrenscolorado.org)  
**Course Director:** Kevin Messacar  
[childrenscolorado.org](http://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:** 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.

**Coordinator:** Michael Baca  
[childrenscolorado.org](http://childrenscolorado.org)  
**Course Director:** Oren Kupfer  
[childrenscolorado.org](http://childrenscolorado.org)  
**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

**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

**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.

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

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<tr>
<th>Sub-I:</th>
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<td>Longitudinal Course:</td>
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**Course Director:** Padmini Palat  
[Email](mailto:padmini.palat@childrenscolorado.org)

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</table>

**Grading:** Honor/High Pass

**Enrollment:** Min: 0  Max: 2

**Prerequisites:**

**Restrictions:**

**Duration:** 4 weeks

### PEDS8013 Pediatric Endocrinology

**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.

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

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<td>Longitudinal Course:</td>
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**Course Director:** Christine Chan  
[Email](mailto:christinel.chan@childrenscolorado.org)

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<td>Not available sections 49-51</td>
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**Grading:** Honor/High Pass or Pass/Fail (<4 wks)

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

**Prerequisites:**

**Restrictions:**

**Duration:** 4 weeks

**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

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

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
Semester Offered: Summer; Fall; Spring
Sections Available: Not available sections 9-16 and 49-51
Semester 2-Week Offered: 
Course Format: Clinical
Location: CHCO, DH
Additional Information: Students rotate at CHCO and DH
Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes
Prerequisites: Only 2 spots available in Sections 9 and 13.
Restrictions: 

PEDS8018  General Academic Peds

Coordinator: Michael Baca
  michael.baca@childrenscolorado.org

Course Director: Christina Suh
  christina.suh@childrenscolorado.org

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

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.

Duration: 4 weeks
Semester Offered: Summer; Fall; Spring
Sections Available: Not available sections 49-51
Semester 2-Week Offered: 
Course Format: Clinical
Location: CHCO
Additional Information: 
Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes
Prerequisites: Honor/High Pass or Pass/Fail (<4 wks)
Enrollment: Min: 0  Max: 2
Restrictions: 

Page 31 of 53
**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 time 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  
michael.baca@childrenscolorado.org  
Course Director: Edward Hoffenberg  
edward.hoffenberg@childrenscolorado.org  
Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Honor/High Pass or Pass/Fail (<4 wks)  
Enrollment: Min: 0  Max: 2  
Restrictions: Not available section 9. 2 week rotations offered from October - May only.  

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 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 anorectal malformations, performing digital rectal examinations, abdominal exams.

Peds Developmental/Behav.

Coordinator: Michael Baca  
michael.baca@childrenscolorado.org  
Course Director: Robyn Nolan  
robyn.nolan@childrenscolorado.org  
Sub-I: No  
Longitudinal Course: No  
Approval Required: No  
Grading: Pass/Fail  
Enrollment: Min: 0  Max: 1  
Restrictions: - Section 29 Blocked per request of Director  
Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes  

Description: Medics 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.
PEDS8025  PEDS Emergency Medicine

Coordinator: Michael Baca
michael.baca@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:
Restrictions:

Course Director: Kelley Roswell
kelley.roswell@childrenscolorado.org

Semester Offered: Summer; Fall; Spring
Sections Available: Not available sections 47-51
Semester 2-Week Offered: All
Course Format: Clinical
Location:
Additional Information:
Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes

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

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

Course Director: Melisha Hanna
melisha.hanna@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:
Accept Visiting Students: MD: Yes  DO: Yes  Int'l: Yes

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

- 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.

**Duration:** 4 weeks

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

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

**Sections Available:** Available in all sections

**Course Format:** Clinical

**Location:** TCH

**Accept Visiting Students:** MD: Yes DO: Yes Int'l: Yes

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PEDS8030  Vaccination in Pediatrics

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

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

**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

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

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

**Sections Available:** Not available sections 49-51

**Course Format:** Clinical

**Location:** CHCO

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

**Accept Visiting Students:** MD: Yes DO: Yes Int'l: Yes
PEDS8031 Pediatric Hem/Onc

Coordinator: Michael Baca
Course Director: Brian Greffe
michael.baca@childrenscolorado.org
brian.greffe@childrenscolorado.org

Duration: 4 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: No
Semester Offered: Summer; Fall; Spring
Sections Available: Not available sections 49-51
Semester 2-Week Offered:

Grading: Honor/High Pass or Pass/Fail (< 4 wks)
Enrollment: Min: 0 Max: 1
Course Format: Clinical
Location: CHCO

Prerequisites: Additional Information:
Restrictions: Accept Visiting Students: MD: Yes DO: Yes Int’l: No

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.

PEDS8032 Pediatric Radiology

Coordinator: Michael Baca
Course Director: Kari Hayes
michael.baca@childrenscolorado.org
kari.hayes@childrenscolorado.org

Duration: 2 or 4 weeks

Sub-I: No
Longitudinal Course: No
Approval Required: No
Semester Offered: Summer; Fall; Spring
Sections Available: Not available sections 1-4; 45-51
Semester 2-Week Offered: All
Course Format: Clinical
Location: CHCO, DH

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

Additional Information: Students rotate at CHCO and DH
Accept Visiting Students: MD: Yes DO: Yes Int’l: Yes

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.
### Physical Medicine And Rehabilitation

**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.

<table>
<thead>
<tr>
<th>Coordinator: Mallory Pridy</th>
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<tr>
<td><a href="mailto:mallory.pridy@ucdenver.edu">mallory.pridy@ucdenver.edu</a></td>
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<tr>
<td>Course Director: Scott Laker</td>
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<tr>
<td><a href="mailto:scott.laker@ucdenver.edu">scott.laker@ucdenver.edu</a></td>
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<td>Course Format: Clinical</td>
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<td>Location: UCH, CHCO, VA, DHMC</td>
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<td>Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes</td>
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### Preventive Medicine

**PRMD8006**  **Dir Study Ethics/Humanit**

**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.

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<tr>
<td>Course Director: Jackie Glover</td>
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<td><a href="mailto:jackie.glover@ucdenver.edu">jackie.glover@ucdenver.edu</a></td>
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**PSYM8000  Advanced Adult Inpatient Psychiatry**

**Coordinator:** Sharon Campbell  
*sharon.campbell@ucdenver.edu*

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

**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.

**Duration:** 4 weeks

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

**Sections Available:** Available in all sections

**Course Format:** Clinical

**Location:** VA, DHMC

**Accept Visiting Students:** MD: Yes  DO: Yes  Int'l: Yes
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.
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.
PSYM8007  Clinical PSYM Emer Srvs  Duration:  4 weeks

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

Sub-L:  No  Semester Offered:  Summer;Fall;Spring
Longitudinal Course:  No  Sections Available:  Available in all sections
Approval Required:  No  Semester 2-Week Offered:  
Grading:  Honor/High Pass  Course Format:  Clinical
Enrollment:  Min: 0  Max: 2  Location:  DHMC
Prerequisites:  
Restrictions:  Additional Information:

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 an 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)  

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**Duration:** 4 weeks  
**Semester Offered:** Summer;Fall;Spring  
**Sections Available:** Available in all sections  
**Semester 2-Week Offered:**  
**Course Format:** Clinical  
**Location:** CeDAR  
**Additional Information:**  
**Accept Visiting Students:** MD: Yes  DO: Yes  Int'l: Yes

**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.
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.
**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:

**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.

**Duration:** 4 weeks

**Coordinator:** Sandra Korn  
`sandra.korn@ucdenver.edu`

**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.

**Accept Visiting Students:** MD: Yes  DO: No  Int'l: No

**RAON8600 Research RAD Oncology**

**Coordinator:** Sandra Korn  
`sandra.korn@ucdenver.edu`

- 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
- Restrictions:

**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.

**Duration:** 4 weeks

**Coordinator:** Sandra Korn  
`sandra.korn@ucdenver.edu`

**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:** Research/Scholarly Activity
**Location:** UCH, Anschutz Cancer Pavilion
**Additional Information:**

**Accept Visiting Students:** MD: Yes  DO: No  Int'l: No
RADI8000 Diagnostic Radiology

**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.

**RADI8002 Nuclear Medicine**

**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**

**Coordinator:** Katelynn Weber  
**Course Director:** Kimi Kondo  

**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.

**Duration:** 2 or 4 weeks

**Coordinator:** Katelynn Weber  
**Course Director:** Kimi Kondo  

**Sub-I:** No  
**Longitudinal Course:** No  
**Approval Required:** Yes: for 2wk course  
**Grading:** Honor/High Pass or Pass/Fail (<4 wks)  
**Enrollment:** Min: 1 Max: 4  
**Prerequisites:**  
**Restrictions:** During May – November, maximum of 1 student taking the 2-week course. Courses not offered during sections 45-48  

**Semester Offered:** Summer;Fall;Spring  
**Sections Available:** Not Available Sections 45-48  
**Semester 2-Week Offered:** All  
**Course Format:** Clinical  
**Location:** UCH  
**Additional Information:** 2 week courses require director approval.  

**Accept Visiting Students:** MD: Yes DO: Yes Int'l: No
RADI 8600  Research in Radiology

**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.

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

**Course Director:** Kimi Kondo  
kiwi.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 men

**Restrictions:** Accept Visiting Students: **MD:** Yes  **DO:** Yes  **Int'l:** No  
**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:**

**Restrictions:** Course Format: Research/Scholarly Activity  Location:
SURG8000 Gen Surg Univ Sub-I

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.
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.

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 VAMC. 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.
SURG8010  Burn Critical Care/Surg

Coordinator:  Trina Smidt
drina.smidt@ucdenver.edu

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

Duration:  4 weeks
Sub-I:  No
Longitudinal Course:  No
Approval Required:  Yes
Grading:  Pass/Fail
Enrollment:  Min: 1  Max: 2
Prerequisites:
Restrictions:

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

SURG8011  Hand Surgery

Coordinator:  Mandy Whitton
mandy.whitton@ucdenver.edu

Course Director:  Mickey Gordon
mickey.gordon@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
Prerequisites:
Restrictions:

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.
### SURG8012  Urology Sub-I

**Coordinator:** Ashley Lane  
**Course Director:** Ty Higuchi  
ashley.2.lane@ucdenver.edu  
ty.higuchi@ucdenver.edu

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<td>Enroll</td>
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**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 to attend. 

**Course Activities:** Students will participate in clinic, minor clinic 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, and 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.

### SURG8019  Plastic Surgery

**Coordinator:** Mandy Whitton  
**Course Director:** Ashley Ignatiuk  
mandy.whitton@ucdenver.edu  
ashley.ignatiuk@ucdenver.edu

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<td>Accept Visiting Students: MD: Yes DO: Yes Int'l: Yes</td>
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**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.
SURG8030  Transplant Surgery

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.