CARVER COLLEGE OF MEDICINE

COURSE DESCRIPTIONS
for
Visiting Students
2020

Note: Courses listed here have potential to be available to visiting students, but may not be available at time of application

REVISED 3/4/2020
DEPARTMENT OF ANESTHESIA

Co-DIRECTOR: Dr. Andrew Feider
Co-DIRECTOR: Dr. Sapna Ravindranath

CONTACT PERSON: Lorri Barnes
6617 JCP
384-9273

ANES:8401 CLINICAL ANESTHESIA SENIOR ROTATION

OBJECTIVES: The student will: Build on the knowledge and experience gained from the two week Anesthesiology elective rotation (ANES:8301). Students will gain more advanced airway management skills. Students will encounter patients with complex medical and surgical conditions. The course will be tailored to meet the need and interest of the student; students will have an opportunity to spend extended time on subspecialty areas (OB, neuro, cardiac, pediatric, regional, ASC, and Pain Clinic). Completion of an academic project (case report and discussion) is a requirement.

This will be achieved through: 1) preoperative, intraoperative, and postoperative care for patients undergoing surgical procedures. 2) direct supervision by a staff anesthesiologist. 3) attendance at conferences and teaching activities of the section, and completion of an academic project.

FACULTY: Staff
MAX ENROLLMENT: 4
OFFERED: Arranged
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Lorri Barnes
REPORT TO: See ICON or departmental email
PREREQUISITE: ANES:8301
OBJECTIVES: The student will: 1) receive in-depth exposure to continuous invasive and non-invasive monitoring techniques including ECG, pulse oximetry, arterial blood pressure, central venous pressure, pulmonary artery pressure monitoring. 2) gain experience in use of vasoactive drugs. 3) gain experience in managing acid-base and fluid balance alterations associated with critical illness. 4) be introduced to ventilatory management of critically ill patients. 5) have exposure to critically ill patients. 6) have exposure to trauma, transplant, and post-surgical patients in addition it offers a unique opportunity to work in the largest ICU in the state of Iowa and largest Neurosurgical ICU in the state. 7) learn about neurologic monitoring, management of intracranial pressure, management of closed head injuries and exposure to management of other neurologic and neurosurgical emergencies; 8) be exposed to the role of multi-disciplinary management teams with clinical nutrition service, physical therapy, and social work.

This will be achieved through: 1) involvement in the care of critically ill patients in the Surgical and Neurosciences Intensive Care Unit (SNICU) and the Cardiovascular Intensive Care Unit (CVICU) under the supervision of residents, fellows and staff. 2) participation during teaching rounds. 3) attendance at conference seminars and teaching activities provided by the SNICU and the CVICU.

FACULTY: Dr. Anita Chazhikattu and Staff
MAX ENROLLMENT: 6
OFFERED: Closed Thanksgiving Block
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Mindi Allbaugh
REPORT TO: See ICON or departmental email
CTS:8401  SUB-INTERNSHIP CARDIOThorACIC SURGERY

OBJECTIVES: The student will participate in the diagnosis, preoperative, operative, and postoperative care of thoracic and cardiac patients. He/she will attend all scheduled conferences of the division. The student will assume responsibility and act as an intern. These students may concentrate their interest in either cardiac surgery or thoracic surgery. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and a faculty member.

FACULTY: Cardiothoracic Surgery Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Noel VanDenBosch
REPORT TO: See ICON or departmental email
DEPARTMENT OF DERMATOLOGY

COURSE DIRECTOR: Dr. Vincent Liu

CONTACT PERSON: Cheryl Moores
40027 PFP
356-1694

DERM:8401  DERMATOLOGY ELECTIVE

OBJECTIVES:
The student will 1) acquire a deeper familiarity with basic skin anatomy, physiology and pathology; 2) understand the importance of morphology and description of diagnosing cutaneous disease; 3) learn how to perform and document a complete skin examination; 4) learn to generate appropriate differential diagnoses for skin conditions; 5) learn the most common and clinically most significant dermatologic conditions; 6) become familiar with fundamental dermatologic diagnostic techniques; 7) become familiar with minor skin surgical procedures; and 8) formulate appropriate plans for management of patients with dermatologic disease.

This will be achieved through experience 1) in the UIHC Dermatology Clinic; 2) at the Iowa City VA Medical Center; 3) with specially-scheduled surgery patients; 4) on the UIHC Dermatopathology Service; and 5) with inpatient consultations.

FACULTY: Dr. Liu and Staff
MAX ENROLLMENT: 2
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cheryl Moores/Patricia Swenka
REPORT TO: See ICON or departmental/administrative email
DEPARTMENT OF EMERGENCY MEDICINE

COURSE DIRECTOR: Dr. Brooks Obr
brooks-obe@uiowa.edu

CONTACT PERSON: Kelby Kiefer
kelby-kiefer@uiowa.edu
1008 RCP
384-6468

EM:8401 ADVANCED LIFE SUPPORT

OBJECTIVES: Students will undergo an intensive program providing “basic training” in life support skills. This 4 week elective coincides with the emergency medicine intern orientation and is designed for the medical student with a strong interest in specializing in emergency medicine. The month is divided among lectures, demonstrations, skills labs, procedural workshops, small groups, high fidelity simulation, manikin training, cultural and diversity training, wilderness medicine, journal club, and patient care. Students will develop an advanced understanding of prehospital triage, transport, and initial stabilization of critically ill patients. Critical care procedures will be taught through procedural skills labs. Students will complete up to 7 clinical shifts in the department at UIHC.

In the process of the course, students can become certified in Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS). These courses are optional.

Students will receive training in the recognition and management of common clinical problems as well as critical care training in trauma, respiratory emergencies, cardiovascular emergencies, neurologic emergencies, endocrine emergencies, and septic shock. In addition, special populations will be discussed including pediatrics and geriatrics. The rotation will include a wilderness medicine race at Lake MacBride.

Nearly 100% of the faculty from the Department of Emergency Medicine will teach some aspect of this course, especially residency leadership with oversight by the course director.

COURSE DIRECTOR: Jon VanHeukelom, MD
MAX ENROLLMENT: 18
LENGTH OF ELECTIVE: 4 weeks
OFFERED: 7/6/20 ONLY
7/6/21 ONLY
ADMINISTRATIVE CONTACT: Kelby Kiefer
REPORT TO: See ICON or departmental email
PREREQUISITES: Strong interest in Emergency Medicine
SPECIAL CONDITIONS: Grading is PASS/FAIL only. Student should not take both ALS and EM:8409
A 4 week clerkship with emergency medicine residents and faculty in which the principles of acute care medicine and the approach to life threatening disease are emphasized. The student will perform under the close supervision of the staff and resident physicians in the Emergency Department.

Students will be scheduled for 17 shifts. A combination of day, evening, and night shifts including weekdays and weekends is required to maximize exposure to a wide range of patient presentations.

The Carver College of Medicine policy on attendance and time off requests will be followed. Please keep this in mind when registering during interview season.

Students must attend orientation typically at 8:00 am on the first day of the clerkship followed by a simulation day. Students are required to attend 16 hours of simulation lab and case conferences. Students are additionally required to complete a systems-based practice project and ethics paper. Student evaluation will be based on a combination of ED clinical performance and a EM Shelf exam.

<table>
<thead>
<tr>
<th>FACULTY:</th>
<th>Dr. Brooks Obr</th>
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<tbody>
<tr>
<td>MAX ENROLLMENT:</td>
<td>9</td>
</tr>
<tr>
<td>OFFERED:</td>
<td>All periods except when ALS is offered</td>
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<tr>
<td>LENGTH OF ELECTIVE:</td>
<td>4 weeks</td>
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<tr>
<td>ADMINISTRATIVE CONTACT:</td>
<td>Kelby Kiefer</td>
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<td>REPORT TO:</td>
<td>See ICON or departmental email</td>
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<tr>
<td>PREREQUISITES:</td>
<td>Completion of Core Clerkships</td>
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<tr>
<td>SPECIAL CONDITIONS:</td>
<td>All time off requests must be submitted 2 weeks prior to the start of the rotation. Attendance is mandatory at UIHC 1st day of rotation for orientation and simulation day.</td>
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FAM:8402  UNIVERSITY OF IOWA FAMILY MEDICINE CLERKSHIP

OBJECTIVES:  This course will emphasize the outpatient aspects of key components of family medicine, including:
- Continuity of care
- Comprehensive care
- Caring for entire families and caring for patients throughout the lifespan
- Integration of health care in the local community
- Patient education
- Care for acute and chronic diseases

EXPECTATIONS:  
- Gain skill in assessment, diagnosis, treatment, and management of patients with common illnesses seen in the ambulatory setting while assigned to the Family Care Center.
- Work collaboratively with the other members of the health care team.
- Attend Family Medicine conferences.

Students taking this rotation must be seriously considering entering the specialty of Family Medicine.

FACULTY:  Stacey Appenheimer, M.D., Course Director
MAX ENROLLMENT:  1
OFFERED:  All periods
LENGTH OF ELECTIVE:  2 or 4 weeks
ADMINISTRATIVE CONTACT:  Meggan Riggan-Rocha
REPORT TO:  See ICON or departmental email
IM:8410 CLINICAL ALLERGY-IMMUNOLOGY

OBJECTIVES: This subspecialty elective emphasizes experience in the diagnosis and treatment of clinical problems in allergy and immunology, including experience in skin testing, administering allergen immunotherapy, the use of immunoglobulin (IVIV and SCIG) & other immunomodulatory therapies, drug challenges and desensitizations, and interpreting pulmonary function tests. The student will assist in the diagnosis and management of asthma, allergic rhinitis, drug allergy, food allergy, atopic dermatitis, urticaria and angioedema, hereditary angioedema and immunodeficiency disease states. Outpatients will be evaluated by the student under supervision of the staff. Selected opportunities exist for students to join inpatient Complex Disorders team rounds. Students will participate in allergy-immunology conferences weekly including Immunology Grand Rounds (Wed, 1:00 pm, C423-1 GH), and the Fellows’ Didactic Core Conferences (Wed, 2:15 pm).

FACULTY: Dr. Fasano and Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Patty Bruffey Thoene, C42 GH
REPORT TO: See ICON or departmental email
OBJECTIVES: Internal scheduling for this course will be the responsibility of the department. Emphasis will be to acquire both breadth and depth in the diagnosis and therapeutic problems encountered in clinical cardiology.

The student will participate in the evaluation and decisions regarding patients seen at the Cardiovascular Clinic and/or Cardiovascular in-patient consult service (at the UIHC or VAH for consults). He/she will become familiar with techniques and regimens of management of ischemic heart disease, pre- and post-operative conditions, and the chronic cardiac states seen frequently in clinical cardiology, such as congestive heart failure and valvular heart disease, and management of common rhythm abnormalities. During each week of the rotation there will be an emphasis on one of these topic areas through computer assisted instruction, assigned readings, and meeting with one of our cardiology fellows.

The elective consists of either four weeks on the UIHC Clinic Service, or two weeks on the UIHC Clinic Service plus two weeks on General Cardiology In-patient Consult Service or two weeks on the VA Consult Service. In general, no more than one student can be assigned to the Cardiology Clinic at one time. If students have preferences as to their assignment during this rotation, they should contact Kathleen Detert, 354-8756, E316-1 GH, as soon as they have been notified of their acceptance into this elective.

COURSE DIRECTOR: Dr. Donald Brown
FACULTY: Staff of Cardiovascular Division
MAX ENROLLMENT: 3
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kathleen Detert, E316-1 GH, 384-8756, See ICON
REPORT TO: See ICON or departmental email
OBJECTIVES: Students electing this course will spend about half of their time in outpatient clinics and the other half on the endocrine consult team. During the outpatient clinic part of the rotation, students will attend endocrine and diabetes clinics every day, working alongside different faculty members. These clinics take place at Iowa River Landing, the University of Iowa, and the VA Hospital. While on consults, students will work with the Endocrine Consult team that consists of a staff physician, an endocrinology fellow and sometimes an internal medicine resident, and will see inpatient endocrine and diabetes consultation patients. When the consult service is not busy, students will also have the opportunity to spend all or part of their morning seeing patients in clinic with a staff physician. For each of these activities students will be expected to perform complete patient evaluations and to develop diagnostic programs and therapeutic plans. Students will also participate in the clinical conferences of the Division.

Conferences to be attended by the student:
* The Diabetes and Obesity Talks: Mondays 1:00 – 2:00 pm, 1289 Kelch
* Fellows Curriculum Lecture Series: Mondays 2:00 – 3:00 pm
* Endocrinology Clinical Conference: Mondays 4:00 – 5:00 pm.
* Internal Medicine Grand Rounds: Thursdays Noon, Med Alumn Aud
* Endocrine Grand Rounds: Fridays 7:30 – 8:15 am.

FACULTY: Dr. Amal Shibli-Rahhal and Staff
MAX ENROLLMENT: 2
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Abbey Gilpin, phone 3-7842
REPORT TO: See ICON or departmental email
OBJECTIVES: Gastroenterologists/Hepatologists are Internists that specialize in care of patients with diseases that impair the function of the esophagus, stomach, small bowel, colon, rectum, liver, biliary system, and/or exocrine pancreas. The goal of this rotation is to familiarize you with the differential diagnosis, evaluation, and management of common gastrointestinal and liver disorders.

By the end of the rotation, we expect that:
1) You will have refined your ability to obtain pertinent history and exam findings in patients with GI/Liver diseases.
2) You will be able to understand and learn the approach to the diagnosis and management of GI/Liver diseases in the inpatient and outpatient setting.
3) You will be able to understand the diagnostic and therapeutic indications of procedures performed in the management of patients with GI/Liver diseases (endoscopy, liver biopsy, FibroScan, motility studies).
4) You will be able to interpret the results of laboratory, endoscopic, and radiographic tests performed in the management of patients with GI/Liver diseases.
5) You will be able to recognize the need for appropriate gastroenterology/hepatology consultation.

This will be achieved through:
1) Active participation in the Inpatient GI and Inpatient Liver consult services.
2) Evaluation of select patients in the GI/Liver outpatient clinics with the consult fellow and attending.
3) Observation of invasive procedures performed in the Digestive Health Center’s Diagnostic and Therapeutic Unit, MICU, and SNICU by GI/Liver clinical faculty.

Attendance at weekly GI/liver teaching conferences – A hand out with information on the various didactics will be provided to the residents at the start of their rotation.

FACULTY: Gastroenterology-Hepatology Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Dr. Arvind Murali, 4553 JCP or Hilary Humphrey, 4608 JCP, 356-2132
REPORT TO: See ICON or departmental email
IM:8418  HEMATOLOGY ONCOLOGY

OBJECTIVES: This elective is designed to increase diagnostic skills in hematology and oncology.

The student will learn: 1) the methods and value of clinical staging of common cancers including solid tumors and lymphomas; 2) the principles and practice of rational chemotherapy; 3) the therapy and outpatient management of patients with solid tumors and lymphomas; 4) the principles of palliative care; 5) about hemostatic and thrombotic disorders; 6) the study of blood smears and bone marrow preparations; and 7) the principles and practice of rational therapy for benign and malignant hematological disorders.

This will be achieved through: 1) participation in oncology and hematology inpatient and outpatient consultation and outpatient clinic activities; 2) attendance at division conferences and 3) independent study.

FACULTY: Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Erin Thompson, C-32 GH, 356-2148

IM:8422  CLINICAL INFECTIOUS DISEASE

OBJECTIVES: The student will: 1) Increase their understanding of the pathogenesis of infectious diseases and of the host's reaction to such disease processes; 2) Increase proficiency in the diagnosis and management of patients with infectious diseases, including the proper use of antibiotics; 3) Learn to apply clinical microbiology to the diagnosis of infectious diseases.

This will be achieved through: 1) Evaluation and follow-up of patients seen by the Infectious Diseases consult service; 2) Participation in daily clinical work rounds; 3) Clinical teaching during daily work rounds; 4) Participation in weekly Infectious Diseases grand rounds; 5) Participation in clinical microbiology rounds.

FACULTY: Infectious Disease Staff
MAX ENROLLMENT: 2
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Stephanie Cecil
REPORT TO: See ICON or departmental email
OBJECTIVES: The student will: 1. Refine history taking and physical exam skills, with emphasis on symptoms and signs common to diseases of the cardiopulmonary system. 2. Learn diagnostic and therapeutic strategies for adult patients with pulmonary disease. 3. Interpret pulmonary function tests and thoracic radiographic studies. 4. Gain exposure to the role of a consulting physician.

This will be achieved through: 1. Participation in the Adult Pulmonary Consult service at University Hospitals. 2. Interpretation of pulmonary function tests with the consult fellow and attending. 3. Review of thoracic imaging studies with the consult fellow and attending. 4. Observation of invasive diagnostic and therapeutic procedures. 5. Attendance at teaching conferences for the Pulmonary Disease and Critical Care Division, held two-to-three times weekly. 6. Present at the clinical case conference on Friday noon (optional).

FACULTY: Pulmonary faculty on rotational basis.
MAX ENROLLMENT: 2
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Lakshmi Durairaj, M.D.,
Alicia Hoerschelman, C 33 F GH
REPORT TO: See ICON or departmental email
OBJECTIVES:
1. To understand the use and basic interpretation of specialized tests of renal function
2. To evaluate and manage patients with acute kidney injury
3. To assess and manage patients with complex fluid, electrolyte and acid base problems
4. To manage patients with CKD or ESRD
5. To understand the indications and modalities for renal replacement therapy
6. To understand the evaluation and management of patients with HTN

Students on the Nephrology Consult Service are integral members of our patient care team and are afforded the opportunity to assume significant responsibilities and play a vital role in the clinical and educational activities of the Division of Nephrology. During the adult nephrology rotation the student will become acquainted with a wide variety of challenges and experiences encountered in the practice of clinical nephrology. Students will participate in rounds on the in-patients at UIHC (no on-call responsibilities) and will be assigned to one ½ day ambulatory renal clinic per week at either UIHC or the VAMC. In addition students will attend teaching conferences of the Nephrology Division and participate in daily review of renal test questions.

Faculty: Dr. Antes and Renal Division Staff
Max Enrollment: 1
Offered: All periods
Length of Elective: 2 or 4 weeks
Administrative Contact: Lisa Novak, E300 GH, 356-3446
Report To: See ICON or departmental email

OBJECTIVES: The student will: 1) increase his/her understanding of rheumatic diseases; 2) increase his/her skill in medical diagnosis of these diseases; 3) will learn the principles of management of patients with these diseases; 4) participate in clinical conferences.

This will be achieved through: 1) participation in daily clinical activities; 2) frequent patient-oriented discussion of problems as they arise on the clinical service; 3) independent study.

Faculty: Dr. Stafford and all Division faculty members
Max Enrollment: 1
Offered: All periods
Length of Elective: 2 or 4 weeks
Administrative Contact: Dr. Dee Dee Stafford & Patty Bruffey Thoene
Report To: See ICON or departmental email
**GOALS:**
Students will become familiar with the basic concepts of the delivery of hospice and palliative care in both the inpatient and outpatient setting. In addition, students will be introduced to the multidisciplinary care for patients with serious illnesses and their families and will work closely with team members of other disciplines.

**OBJECTIVES**
At the conclusion of the rotation, students will be able to:
1. understand the principles of hospice and palliative medicine in the inpatient and home settings including eligibility for hospice care.
2. describe situations in which palliative medicine consultation is appropriate.
3. define effective strategies and techniques for communicating with patients and families especially when communicating bad news.
4. appropriately prescribe opioid and non-opioid drugs for the treatment of pain and to accurately calculate equivalent doses of different opioids.
5. describe assessment and management strategies for non-pain symptoms in patients at the end of life, particularly nausea, dyspnea, anorexia, delirium and terminal restlessness.
6. educate and prepare family and staff for death.
7. work with patients regarding goals of care.
8. explore the emotional and psychosocial aspects of the illness experience and physician grief.

Goals and objectives will be achieved by:
1. assisting with the supervised care for patients on the UIHC Palliative Care Consult Service.
2. participating in educational conferences/meetings including the UIHC Palliative Care Conference and daily report at UIHC.
3. reading about patients encountered while on the rotation.

**COURSE DIRECTOR:** Timothy A. Thomsen, MD (Program Medical Director); William David Clark, MD

**MAX ENROLLMENT:** 1

**OFFERED:** All periods

**LENGTH OF ELECTIVE:** 4 weeks

**ADMINISTRATIVE CONTACT:** Suzanne Streitz, phone 467-5426

**REPORT TO:** See ICON or departmental email
DEPARTMENT OF NEUROLOGY

COURSE DIRECTOR: Dr. Tracey Cho

CONTACT PERSON: Caroline Martin
8820-20 JPP
384-5094

NEUR:8401  ADVANCED INPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience dealing with diagnosis of patients hospitalized because of neurologic disease. The student will be responsible for the initial assessment outline management plans and will be responsible for daily care, under the supervision of faculty and senior residents. Daily clinical conferences and teaching rounds are included.

FACULTY: Dr. Cho
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Caroline Martin
REPORT TO: See ICON or departmental email

NEUR:8402  ADVANCED OUTPATIENT NEUROLOGY

OBJECTIVES: Intensive period of experience with the diagnosis and treatment of patients with neurologic disease. The student will be assigned to the Neurology Outpatient Clinic. The student will perform the initial assessment of the patient and through consultation with the faculty, outline the management. Departmental conferences are held daily.

FACULTY: Dr. Cho
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Caroline Martin
REPORT TO: See ICON or departmental email
OBJECTIVES: This 4-week course provides opportunities in which the student to do the following

1) Develop skills related to the management of patients hospitalized with acute neurological disease
2) Gain experience in the diagnosis, evaluation, and treatment of patients with acute neurologic disease in the emergency department setting and on inpatient units
3) Participate in the emergency and acute medical management of patients, including the treatment of comorbid diseases, prevention and treatment of acute complications, initiation the therapies to prevent recurrent stroke, and development of plans for recovery and rehabilitation, including discharge planning.

SUPERVISION: The student will have direct patient care under the supervision of the faculty and senior level residents or fellows.

Patient care responsibilities:

The student will have appropriate management responsibilities for all aspects of patient care.

1) The student will follow assigned patients who are admitted for critical care to the surgical and neuroscience intensive care unit
2) The student will be involved in evening call on the stroke service
3) The student is expected to develop plans for evaluation and treatment of patients.
4) The student is expected to prepare clinical notes and orders that can be forwarded to faculty and residents.
5) The student is expected to join the team huddles in which allied health professionals also are present.

Evaluations; Student performance is assessed using the standard CCOM evaluation forms. The performance is based on the ACGME core competencies for resident education. The student is expected to provide an evaluation of his/her experience on the rotation.

FACULTY: Dr. Cho
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Caroline Martin
REPORT TO: See ICON or departmental email
NSG:8401  SUB-INTERNSHIP NEUROSURGERY

**Objectives:** This advanced clinical clerkship is designed for students interested in neurologic diseases. There will be emphasis on the diagnosis of neurologic disorders as well as operative therapy. **The student will** be expected to attend related conferences with Radiology and Neurology. The student will be responsible for diagnosis and management of patients on an inpatient service under close supervision by an upper level resident and faculty member. Evaluation will be based upon the ward performance.

**Faculty:** Dr. Howard and Staff  
**Max Enrollment:** 5  
**Offered:** All periods  
**Length of Elective:** 4 weeks  
**Administrative Contact:** Carol Bontrager  
**Report To:** See ICON or departmental email
DESCRIPTION: Sub-internship focused on inpatient and outpatient care of women with co-morbid health conditions that complicate pregnancy, fetal conditions, and complications of pregnancy.

OBJECTIVES:

1. Under supervision by the antepartum resident and faculty member, the sub-intern will be responsible for managing high-risk antepartum patients admitted to the Obstetric Service. This will include ordering diagnostic studies, following labs, and being involved in the patients’ clinical courses. The student will develop skills in various diagnostic procedures such as non-stress testing and biophysical profiles. At daily sign-out, the sub-intern will present the patients he or she has evaluated and will participate in the discussion concerning other patients.

2. The sub-intern will see specific patients in the High Risk obstetrics clinics.

3. Assist with the evaluation of complicated obstetric patients admitted to labor & delivery. The sub-intern may be involved in the intrapartum care and delivery of the high-risk obstetric patient.

4. Completion of one formal referenced paper of a specific problem in Maternal-Fetal Medicine chosen by the student and one of the faculty members. The student will be evaluated by this evidence-based paper.

5. Required Clinical Experiences will be recorded and midblock feedback will be scheduled with your preceptor.

FACULTY: Drs. Stephen Hunter, Andrea Greiner, Kimberly Leslie, Janet Andrews, Mark Santillan and Nina Moreira MD

FACULTY DIRECTOR: Nina Moreira MD

MAX ENROLLMENT: 1

OFFERED: All periods

LENGTH OF ELECTIVE: 4 weeks

ADMINISTRATIVE CONTACT: Sally Fisher

REPORT TO: See ICON or departmental email
**DESCRIPTION:** Sub-intern experience in the evaluation and management of surgical & hospitalized gynecologic oncology patients with serious and often complex problems. The sub-intern will be evaluated by direct observation from faculty and residents. The sub-intern will interact and be closely supervised by the residents, fellow and faculty with weekly verbal feedback from this team on documentation, clinical decision-making and management plans. The mid-block evaluation meeting with Dr. Hill will include input from the Gyn Onc team. Dr. Hill will complete the final evaluation by completing input from the other faculty, residents and fellows.

**OBJECTIVES:**
1. Develop a better understanding of diagnosis, evaluation, and management of patients with a variety of gynecologic malignancies.
2. Participate in direct patient care under the supervision of faculty and resident physicians. The student’s experiences will consist predominantly of patient care.
3. Develop skills in the management of postoperative gynecological cancer patients, with emphasis on clinical decision-making and development of management plans.
4. Assume an appropriate level of management/responsibility for all aspects of patient care. Specifically, the sub-intern will participate in admissions, writing daily progress notes and discharge summaries, and assist in writing/reviewing postoperative admission orders.
5. Develop skills in management of postoperative fluid, electrolyte, and acid-base disorders as well as exposure to postoperative wound evaluation/care and assist in placement of nasogastric tubes or other on-floor procedures as appropriate.
6. Practice independent evaluation of postoperative pain, and develop an understanding of postoperative pain management.
7. Participate in the management of post-operative patients with anemia and malnutrition.
8. Engage in opportunities to independently identify critically ill patients who require immediate attention and require transfer to an intensive care setting.
9. Practice documenting clinical activities (admission notes, progress notes, discharge summaries) in the medical record.
10. Function collaboratively in a clinical management team including nursing staff, students, residents, consulting providers, social workers, ward clerks, and other support staff.

**EVALUATION METHODS:**
1. The sub-intern will attend the weekly Gynecologic Oncology Tumor Board, unless they are in the OR.
2. The last week of the rotation, the student will present an appropriately referenced topic in Gynecologic Oncology of his/her choice, typically drawn from a patient experience from the rotation.
3. Required Clinical Experiences will be recorded and midblock feedback will be scheduled with your preceptor.

**FACULTY:** Drs. David Bender, Michael Goodheart, Jesus Gonzalez-Bosquet, Emily K. Hill and Megan McDonald

**FACULTY DIRECTOR:** Emily K. Hill MD

**MAX ENROLLMENT:** 1

**OFFERED:** All periods

**LENGTH OF ELECTIVE:** 4 weeks

**ADMINISTRATIVE CONTACT:** Sally Fisher

**REPORT TO:** See ICON or departmental email
DESCRIPTION: Advanced elective in the field that studies the intricate physiology and endocrinology of female reproductive function. The student will be evaluated by all faculty members with whom they worked with in clinics, OR’s, and other settings including imaging (ultrasound, HSG), IVF, etc. All evaluations will be aggregated and the final grade submitted. As a member of a team caring for patients with infertility, reproductive endocrine disorders, and benign gynecologic conditions, the student will function under close supervision by residents, fellows and faculty.

OBJECTIVES: 1. Increase understanding and skill in evaluation, diagnosis, and treatment of patients with infertility, amenorrhea, recurrent pregnancy loss, and other gynecological endocrinopathies.
2. Increase understanding and ability to evaluate an OR patient pre-operatively, and care for patients post-operatively in the hospital.
3. Active participation in the Reproductive Endocrinology and Infertility Clinics several days a week.
4. A presentation to the division on a topic chosen by the student will be used to evaluate learning objectives.
5. Participation in related major in-patient and minor out-patient surgical procedures, including pre and post-operative evaluation and care.
6. Attendance at weekly student chapter review lectures.
7. Participation and assistance in preforming hysterosalpingograms one afternoon per week, assistance in preforming pelvic ultrasounds throughout the week, and study of assigned reading material.
8. Required Clinical Experiences will be recorded and midblock feedback will be scheduled with your preceptor.

FACULTY: Drs. Brad VanVoorhis, Hakan Duran, Jessica Kresowik, Abey Eapen and Rachel Mejia. Elizabeth Graf, PA and Dana Aybout El Sayed, ARNP

FACULTY DIRECTOR: Hakan Duran MD

MAX ENROLLMENT: 1

OFFERED: All periods

LENGTH OF ELECTIVE: 4 weeks

ADMINISTRATIVE CONTACT: Sally Fisher

REPORT TO: See ICON or departmental email
DEPARTMENT OF OPHTHALMOLOGY

COURSE DIRECTOR: Dr. Pavlina Kemp

CONTACT PERSON: Michelle Snyder

11290 PFP
356-2921

OPHT:8401  EXTERNAL EYE DISEASE

OBJECTIVES: Intended for students interested in learning about the most common non-refractive eye disorders.

The student is expected to: 1) learn basic techniques of eye examination; 2) learn to diagnose common diseases of the eyelids, conjunctiva, and cornea; 3) learn basic principles of therapeutics of external eye disease.

This will be achieved by: 1) reading assignments; 2) daily conferences; 3) clinical work-up of patients; 4) self-assessment programs.

The student will be evaluated throughout the elective and at its completion.

FACULTY: Mark Greiner, M.D.
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Michelle Snyder
REPORT TO: See ICON or departmental email
PREREQUISITE: OPHT:8301

OPHT:8402  NEURO-OPHTHALMOLOGY

OBJECTIVES: Intended for students with an interest in Neurology, Neurosurgery, Internal Medicine, or Ophthalmology.

The student is expected to learn the diagnosis and management of neuro-ophthalmic problems (visual loss, diplopia, field loss, pupil dysfunction).

This will be achieved by working up patients in the Neuro-ophthalmology Clinic and presenting them to the faculty.

FACULTY: Matthew Thurtell, MBBS, MSc, FRACP
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Michelle Snyder
REPORT TO: See ICON or departmental email
PREREQUISITE: OPHT:8301
DEPARTMENT OF ORTHOPEDICS AND REHABILITATION

COURSE DIRECTOR: Dr. Charles Clark
CO-DIRECTOR: Dr. Jose Morcuende

CONTACT PERSON: Kelly Schnoebelen
01016R JPP
353-7951

ORTH:8407 ORTHOPEDICS - ADULT HIP/KNEE RECONSTRUCTION

OBJECTIVES: The student will: 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Blue Team-adult hip and knee reconstruction service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email
ORTH:8408  ORTHOPEDICS - TRAUMA

OBJECTIVES: The student will: 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Red Team-trauma service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email

ORTH:8409  ORTHOPEDICS - PEDIATRICS

OBJECTIVES: The student will: 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Green Team-pediatrics service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email
ORTH:8410  ORTHOPEDICS - SPORTS MEDICINE

OBJECTIVES:  The student will: 1) develop in-depth skill in the physical diagnosis and approach to
diseases of the musculoskeletal system; 2) he/she will increase his/her ability to
establish a differential list of problems to recommend appropriate solutions to each
problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Black Team-sports medicine service;
duties will be analogous to those of a junior resident with responsibility for patient
care in clinic, hospital and the operating room; 3) participation in staff conferences and
rounds including presentation of patients for discussion; 4) development of surgical and
non-surgical skills in the care of patients.
In addition, the student will take night call with the assigned team at least one night per
week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email

ORTH:8411  ORTHOPEDICS - HAND, WRIST, ELBOW

OBJECTIVES:  The student will: 1) develop in-depth skill in the physical diagnosis and approach to
diseases of the musculoskeletal system; 2) he/she will increase his/her ability to
establish a differential list of problems to recommend appropriate solutions to each
problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Yellow Team-hand, wrist, elbow
service; 2) duties will be analogous to those of a junior resident with responsibility for patient
care in clinic, hospital and the operating room; 3) participation in staff conferences and
rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.
In addition, the student will take night call with the assigned team at least one night per
week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email
ORTH:8412  ORTHOPEDICS - SPINE

OBJECTIVES: The student will: 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Orange Team-spine service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email

ORTH:8413  ORTHOPEDICS - PATHOLOGY/TUMOR AND FOOT/ANKLE

OBJECTIVES: The student will: 1) develop in-depth skill in the physical diagnosis and approach to diseases of the musculoskeletal system; 2) he/she will increase his/her ability to establish a differential list of problems to recommend appropriate solutions to each problem and assist in the management of the problem and each solution.

This will be achieved by: 1) participation in the Silver Team-tumor, foot, and ankle service; 2) duties will be analogous to those of a junior resident with responsibility for patient care in clinic, hospital and the operating room; 3) participation in staff conferences and rounds including presentation of patients for discussion; 4) development of surgical and non-surgical skills in the care of patients.

In addition, the student will take night call with the assigned team at least one night per week and one 12-hour weekend call.

FACULTY: Orthopedic Staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Kelly Schnoebelen, 01016R JPP
REPORT TO: See ICON or departmental email
OTO:8402  ADVANCED OTOLARYNGOLOGY

**OBJECTIVES:**  
The student will: 1) become proficient in the physical examination of the head and neck; 2) increase his ability to diagnose, evaluate and manage common disorders of the ears, nose, and throat; 3) work in the outpatient clinic, on inpatient services, and in the operating room.

This will be achieved through: 1) examination of a large number of patients; 2) assuming interns level responsibility inpatient care; 3) independent study; 4) exposure to the operating room if desired.

**FACULTY:**  
**MAX ENROLLMENT:**  
**OFFERED:**  
**LENGTH OF ELECTIVE:**  
**ADMINISTRATIVE CONTACT:**  
**REPORT TO:**  

Staff  
3  
All periods  
4 weeks  
Jodi Klein  
See ICON or departmental email
DEPARTMENT OF PATHOLOGY

SENIOR CONTACT PERSON: Vicky Farrington-Howrey
C683 GH
356-0319

PATH:8402 HEMATOPATHOLOGY CLERKSHIP

OBJECTIVES: The student will: 1) develop proficiency in the evaluation of peripheral blood and bone marrow, lymph node, and body fluid cell evaluation; 2) increase skills in recognition of benign and malignant disorders of the hematopoietic system; 3) learn the appropriate laboratory work-up of anemia, thrombocytopenia/thrombocytosis, leukocytic disorders, and suspected hemoglobinopathy/thalassemia; 4) increase understanding of the functioning of the hematology laboratory; and 5) correlate hematologic findings with molecular, flow cytometric and cytogenetic laboratory findings.

This will be achieved through: 1) performance of written reports on peripheral blood and bone marrow cases; 2) attendance at daily review of bone marrows and abnormal peripheral blood and body fluid films; 3) review of hemoglobin electrophoresis cases in conjunction with CBC data, blood smear findings, and clinical history; 4) attendance at hematopathology and lymphoma conferences.

FACULTY: Drs. S. Bhagavathi, S. Syrbu, C. Holman and C. Zhao

MAX ENROLLMENT: 1
OFFERED: All Periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Vicky Farrington-Howrey
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: Instructor consent required.
PATH:8403 SURGICAL PATHOLOGY

OBJECTIVES: 1) To become acquainted with the contributions to and limitations of tissue examination to patient care, 2) to learn basic aspects of tissue examination and approaches to anatomic diagnosis, 3) to be exposed to a variety of diseases at the gross and microscopic level.

The student will actively participate in surgical pathology by: 1) observing the gross and assisting in the microscopic examination, clinical pathological correlation and report preparation of current surgical and medical specimens, 2) participating in daily surgical pathology conferences.

FACULTY: Dr. Anthony Snow and Staff
MAX ENROLLMENT: 2
OFFERED: Closed March
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Vicky Farrington-Howrey
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: Scheduling approval Dr. Snow

PATH:8404 TRANSFUSION MEDICINE

OBJECTIVES: To be exposed to common activities and functions of a comprehensive transfusion service. Upon completion of the clinical clerkship the student will:

1) Understand the preparation of and indications for the transfusion of components such as platelets, plasma, RBC’s and cryoprecipitate.
2) Participate in Morning Report and be aware of common indications for therapeutic apheresis and therapeutic phlebotomy, and the common risks and complications associated with these procedures.
3) Answer requests from the clinical services regarding the transfusion of blood components and special services (e.g., therapeutic plasma exchange).
4) Observe specific procedures such as: plasmapheresis, photopheresis, therapeutic phlebotomy, and peripheral blood progenitor cell collection.
5) Participate in an offsite blood drive with DeGowin Donor Center Staff (optional).
6) Be familiar with Blood Bank procedures and regulations including knowing techniques of erythrocyte typing, compatibility testing, antibody detection and antibody identification. Students will participate in specific procedures including pretransfusion compatibility testing, RBC typing and antibody screen.
7) Be able to apply knowledge of Transfusion Medicine to other specialties of obstetrics, anesthesia, medicine, and surgery.
8) Give a 30 min presentation on a Transfusion Medicine topic.

Students performing a 4 week rotation (Monday–Friday only) will have progressively more lab electives, pager coverage and will be expected to give a short case presentation at CP morning report.

FACULTY: Drs. M. Knudson, A. Schlueter and J. Blau
MAX ENROLLMENT: 1(2 with Medical Director Approval)
OFFERED: All periods – based on availability of an open trainee slot in the DeGowin rotation schedule
LENGTH OF ELECTIVE: 2/4 weeks No Holidays or weekends.
ADMINISTRATIVE CONTACT: Vicky Farrington-Howrey
REPORT TO: See ICON or departmental email
The pediatric inpatient services are staffed with a physician care team which includes the attending faculty, pediatric residents, and Phase 2 and Phase 3 medical students. All Pediatric inpatient rotations will include one week of nights. Individual team information can be found on ICON.

**OBJECTIVES:**

The student will within the limits of time available:

1. Learn to obtain a historical database to make the diagnosis of and characterize the following problems:
   a) Asthma
   b) Cystic fibrosis
   c) Bronchiectasis
   d) Bronchopulmonary dysplasia
   e) Interstitial lung disease
   f) Anatomical disorders of the respiratory tract
   g) Rhinitis
   h) Atopic dermatitis
   i) Urticaria
   j) Angioedema
   k) Anaphylaxis
   l) Stinging insect reactions

2. Learn to perform and interpret pulmonary function testing in children and to combine this information with history, physical, chest x-ray, and blood gases in defining physiological abnormalities of the lower airway. 3. Be able to appropriately choose, perform and interpret skin tests for inhalant allergens, and demonstrate an understanding of the indications and limitations of these tests. 4. Learn appropriate environmental, immunological, and pharmacologic management of the diseases listed under #1. 5. Review the basic science areas of immunology, physiology, and pharmacology related to the diagnosis and treatment of the diseases listed under #1.

These goals will be achieved through exposure to ambulatory patients in the clinics and the performance of consultations on in-patient and out-patients. Students will assist in performing and interpreting pulmonary function testing on their own and other patients. Educational reading material and library references will be available.
OBJECTIVES: This elective would be suitable for students with an interest in pediatrics, family practice and cardiology. The student will learn the skills required to assess the cardiovascular status of a child in an outpatient situation.

The rotation focuses on enhancing physical exam skills and physiology knowledgebase from a cardiovascular perspective. Students will learn to clinically integrate cardiovascular physiology with physical findings and laboratory tests. An emphasis will be placed on learning to differentiate innocent versus organic heart murmurs. By the end of the rotation, students should be able to explain the mechanism for the production of heart sounds and murmurs, distinguish normal from abnormal cardiovascular signs and symptoms and explain normal cardiac physiology as it applies to interpreting physical exam or laboratory tests. Students will have the opportunity to participate in all cardiology clinical activities including inpatient rounds, outpatient clinics, cardiac radiography, teaching conferences; including cardiac catheterization conferences, surgical conferences, journal club and seminars in pediatric cardiology are held weekly. The elective is well-structured, yet can be tailored to meet individual interests.

FACULTY: Ben Reinking, MD and staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
OBJECTIVES: The student will increase his proficiency in the diagnosis, management and treatment of various diseases of the gastrointestinal tract, liver and pancreas and their nutritional consequences during infancy and childhood. A greater depth of knowledge concerning normal and abnormal nutrition will also result.

The objectives will be achieved through: 1) Participation in clinical activities such as daily ward rounds, consultations on pediatric patients with GI problems, outpatient clinics, and diagnostic procedures such as endoscopies; 2) Attending teaching and patient management conferences.

FACULTY: Eyad Hanna MD and staff
MAX ENROLLMENT: 2
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
OBJECTIVES: The goal of this rotation is for the student to gain familiarity with the diagnosis and ongoing management of children with common and rare hematologic and immunologic disorders and malignancies. Through exposure to a wide variety of hematologic and oncologic diagnoses, the student will gain experience in diagnosing and treating patients in a multidisciplinary team. Students will also observe and participate in procedures, chemotherapy planning and delivery, and transfusion medicine. The students will learn different roles in the clinic working with faculty, trainees, nurse practitioners, physician assistants, clinic nurses, social workers, child life specialists, and others.

The above goals will be achieved by attending pediatric hematology/oncology outpatient clinics. Students will participate in the initial diagnostic evaluation of patients referred to the Pediatric Hematology-Oncology Service, interpret the microscopic examination of blood smears and bone marrow specimens, and complete a selective reading list.

FACULTY: Mariko Sato, MD and staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
OBJECTIVES: The student will: Increase proficiency in doing a neurologic examination on infants, children and young adults. Students will develop competence at obtaining a neurologic history, including developmental history and genetic history. The student will learn an approach to diagnosing and managing common and rare neurologic problems in childhood, including seizures, developmental delay, neurocutaneous disorders and muscular dystrophy. Through exposure to patients in follow-up visits, the student will learn the natural history of common neurologic disorders. Students will learn to use written and computer based resources and interpret the results of laboratory testing (CT, MRI, EEG) in the diagnostic evaluations.

These goals will be achieved through: Clinical activities will be focused on the outpatient clinic, with limited involvement in the inpatient service and consult service. The student will see patients independently and staff them with an attending. Students will participate in clinical conferences, and will be expected to read selected readings in pediatric neurology. Students will be expected to participate in the weekly child neurology clinical conference.

FACULTY: Leah Zhorne MD and staff
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
OBJECTIVES:

1. Understand the normal developmental sequence of childhood, and the impact of environmental influences.
2. Be aware of the antecedents of selected developmental disabilities including ADHD, autism, intellectual and physical disabilities.
3. Identify methods to detect cognitive and motor delays in infancy.
4. Identify methods to detect physical and cognitive delays in the preschool child.
5. Understand the long-term consequences of developmental disabilities.
6. Work with an interdisciplinary team and understand its advantages in addressing developmental disabilities.

FACULTY: Dianne McBrien, MD and staff
MAX ENROLLMENT: 1
OFFERED: All blocks
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop goals for their rotation (1 goal/week). Students completing a 4-week rotation will use their goals as the basis of their midrotation feedback of which the signed and completed form must be uploaded to ICON in order to receive full credit. ALL students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are required to initiate on-line evaluations and to complete the CCOM Clerkship Evaluation.
OBJECTIVES:

Primary emphasis during this elective is to prepare the student to recognize and feel competent with genetic birth defect problems present in his/her future patients. A wide variety of genetics and birth defect problems will be seen. Clinical applications are stressed.

Students participate in clinical activities of the Division of Medical Genetics, Stead Family Department of Pediatrics. This may include General Genetics Clinics, Connective Tissue Disorder Clinics, Neurofibromatosis Clinics, Metabolic Clinics or Outreach Clinics. Clinics are held at the University of Iowa Children’s Hospital, Iowa River Landing, North Liberty and at designated Outreach sites throughout the state.

Students also participate in weekly Genetics Journal Club, weekly Clinical and Molecular Genetics Case Review Conference and participate in weekly rounds for inpatients. Students assist in the evaluation and counseling of referred patients. Opportunities exist for students to be exposed to laboratory techniques of chromosome and/or DNA analysis through the Shivanand R. Patil Cytogenetics and Molecular Genetics Laboratory.

The student will present a 10 minute case review at the end of the rotation.

FACULTY: J. Bernat, MD PhD and staff
MAX ENROLLMENT: 1
OFFERED: All Blocks
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Cathy Chavez
REPORT TO: See ICON
EVALUATIONS: Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback.

Students are expected to upload a picture of the completed and signed midrotation form to ICON to receive full credit.

All students will write and upload to ICON a 1-page reflection of their experience at the end of the rotation.

Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
**Peds: 8421 Pediatric Endocrinology**

**Objectives:**

The student will increase his/her knowledge of and proficiency in the diagnosis, management, and treatment of pediatric endocrine diseases such as growth disorders (short stature, tall stature, delayed puberty, precocious puberty), thyroid disorders (hypothyroidism, hyperthyroidism, thyroid nodules), diabetes mellitus, diabetes insipidus, dysgenetic syndromes, ambiguous genitalia, adrenal insufficiency or adrenal steroid excess, and hypopituitarism.

These objectives will be achieved primarily through participating in outpatient endocrine clinics but will also include consultation on inpatients with pediatric endocrine problems when appropriate. Students will also attend weekly division case conference, journal club, and combined endocrine grand rounds.

**Faculty:** Vanessa Curtis, MD and staff

**Max Enrollment:** 1

**Offered:** All Blocks

**Length of Elective:** 4 weeks

**Administrative Contact:** Cathy Chavez

**Report to:** See ICON

**Evaluations:** Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.

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**Peds: 8431 Pediatric Nephrology**

**Goals**

Become familiar with and gain an appreciation for the manifestations of kidney disease in children. Begin to formulate management plans for patients with all types of kidney disease.

**Faculty:** Jennifer Jetton, MD and staff

**Max Enrollment:** 1

**Offered:** All periods

**Length of Elective:** 4 weeks

**Administrative Contact:** Cathy Chavez

**Report to:** See ICON

**Evaluations:** Each student will develop 4 goals for their rotation and will use these for the basis of their midrotation feedback. Students are expected to upload the completed and signed midrotation form to ICON to receive full credit. All students will write a 1-page reflection of their experience at the end of the rotation and upload it to ICON. Students are responsible for initiating on-line evaluations and for completing the CCOM Clerkship Evaluation.
PSYC:8401  ADULT INPATIENT PSYCHIATRY

OBJECTIVES: This advanced elective offers the opportunity to study clinical psychiatry in greater depth. Elective clerks carry a smaller case load than residents, but are otherwise expected to act as junior residents with staff supervision. Clerks also participate in a program of directed readings, didactic seminars, and clinical conferences. Feedback on directly observed clinical interviews will be provided. Options include general adult psychiatry, geriatrics, mood, or psychotic disorders/neuropsychiatry. Student learning will emphasize assessment to develop a foundation of skills in clinical interviewing, mental status examination, differential diagnosis, and formulation. Psychotherapeutic and pharmacological management approaches will be emphasized. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: Dr. Anthony Miller  
MAX ENROLLMENT: 2  
OFFERED: All periods  
LENGTH OF ELECTIVE: 4 weeks  
ADMINISTRATIVE CONTACT: Sarah Butler  
REPORT TO: See ICON or departmental email

PSYC:8402  CHILD PSYCHIATRY

OBJECTIVES: This elective offers the student the opportunity to study in depth the behavioral manifestations of psychiatric disorders in children and adolescents. The elective will include both inpatient and outpatient experiences so that students have an opportunity to observe how psychiatrists diagnose and treat acute and chronic disorders in children. Outpatient clinic experiences will include diagnostic evaluations, medication follow-ups, and full team evaluations. Students will also have the opportunity to observe neuropsychological and psychological evaluations. Students also participate in a program of clinical readings, didactic seminars, and clinical conferences. This elective is well-suited for the student who is planning a career in pediatrics. A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: Dr. Carissa Gunderson  
MAX ENROLLMENT: 1  
OFFERED: All periods  
LENGTH OF ELECTIVE: 4 weeks  
ADMINISTRATIVE CONTACT: Sarah Butler  
REPORT TO: See ICON or departmental email
PSYC:8403  ADULT OUTPATIENT PSYCHIATRY

OBJECTIVES: This elective offers students the opportunity to study outpatient psychiatry and emergency management of psychiatric patients. Students will be expected to participate with more independence in the diagnostic assessment of new patients in the clinic, as well as to assist senior residents in the evaluation and treatment of patients with psychiatric emergencies. An emphasis will be placed on the further development of psychiatric interviewing skills and diagnostic assessment skills. Students will be exposed to both psychotherapeutic and psychopharmacologic treatment modalities. Observation of group psychotherapy and participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective. The elective will be tailored as possible to the student’s interests, including exposure to the University Adult Psychiatry Outpatient Clinic, the VA Adult Psychiatry Outpatient Clinic, geriatric evaluations, addictions treatment, and community psychiatry sites.

A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: Dr. Anthony Miller
MAX ENROLLMENT: 1
OFFERED: All periods
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Sarah Butler
REPORT TO: See ICON or departmental email

PSYC:8404  WOMEN’S WELLNESS & COUNSELING SERVICE

OBJECTIVES: Fourth year medical students can pursue a Women’s Mental Health senior elective in the Women’s Wellness and Counseling Service (WWC) at the University of Iowa Hospitals and Clinics and at the VA Women’s Clinic. During this four week rotation, students will have the opportunity for greater autonomy in evaluation and treatment of women with mental illness with a special emphasis on pregnant and postpartum women. They will be expected to participate in case conferences, attend regularly scheduled educational activities in women’s mental health, prepare a presentation for the WWC service, and develop a working knowledge of fundamental literature in this field. The majority of clinical and educational activities will be devoted to women’s mental health. Depending on in the interests of the student, other psychiatric learning activities will be arranged during this rotation.

A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

FACULTY: Dr. Hristina Koleva
MAX ENROLLMENT: 1
OFFERED: Closed June/July/Aug
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Sarah Butler
REPORT TO: See ICON or departmental email
PSYC:8405  SUB-INTERNSHIP MEDICAL PSYCHIATRY

**OBJECTIVE:**
The Medical Psychiatry Clerkship is designed to provide hands-on experience in the evaluation and treatment of patients with combined medical and psychiatric disease. The fourth year student under the supervision of residents in both medicine and psychiatry will learn to make appropriate medical and psychiatric diagnoses while considering the relationship of these conditions. The student will act at intern level selecting appropriate consultations, diagnostic tests, and treatments. The student will be expected to develop familiarity with the etiology and pathophysiology of the conditions being treated, review potential complications, and develop skills in direct interactions with the patients to facilitate team-teaching and patient care. The student is required to prepare and present an article at the Medicine-Psychiatry noon conference. Contact Dr. Vicki Kijewski for details about the noon conference schedule at the beginning of the elective. Participation in senior elective clinical readings, resident didactic seminars, and resident clinical conferences are expected of the clerk during this elective.

**FACULTY:**  
Dr. Vicki Kijewski

**MAX ENROLLMENT:** 2

**OFFERED:** All periods

**LENGTH OF ELECTIVE:** 4 weeks

**ADMINISTRATIVE CONTACT:** Sarah Butler

**REPORT TO:** See ICON or departmental email

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PSYC:8408  SUB-INTERNSHIP MOOD/PSYCHOTIC DISORDERS

**OBJECTIVE:**
The sub-internship in adult psychiatry will provide an experience for the student that maximizes autonomy and responsibility. The inpatient rotation will focus on one sub-specialty area (psychotic disorders or mood disorders) and emphasize the substantial other medical co-morbidity. The sub-Intern will be expected to assess and address the medical and psychiatric needs of their assigned patients in a collaborative and integrative fashion. Students will be expected to assess and manage their patients independently at the level of a psychiatry intern, reporting directly to the attending. Call is required. The didactic curriculum focuses on critical appraisal of the medical literature.

**FACULTY:** Drs. Jess Fiedorowicz and Aubrey Chan

**MAX ENROLLMENT:** 2

**OFFERED:** All periods

**LENGTH OF ELECTIVE:** 4 weeks

**ADMINISTRATIVE CONTACT:** Sarah Butler

**REPORT TO:** See ICON or departmental email
**OBJECTIVES**  
The elective in eating disorders will provide an experience for the student that maximizes autonomy and responsibility. The inpatient or partial hospital rotation will emphasize the co-occurring psychiatric and co-morbid medical conditions associated with the eating disorders. Students will be expected to assess and manage their patients at an advanced level. Students will provide direct patient care and engage in clinical decision making for complex patients with substantial co-morbidity. The didactic curriculum focuses on critical appraisal of the relevant medical literature. Students will be introduced to cognitive behavioral psychotherapy techniques.  
A presentation of scholarly work (oral presentation or paper) is required. Call is not required.

**FACULTY:**  
**Dr. Emily Morse**

**MAX ENROLLMENT:**  
1

**OFFERED:**  
All Periods

**LENGTH OF ELECTIVE:**  
2 or 4 weeks

**ADMINISTRATIVE CONTACT:**  
Sarah Butler

**REPORT TO:**  
See ICON or departmental email
RAD 8401  ADVANCED CLINICAL RADIOLOGY

OBJECTIVES: This elective is intended for students who want to improve their radiologic abilities whether or not they plan to pursue a career in radiology. The course consists of 4 one-week blocks in the radiologic subspecialties of the student’s choice. This is a hands-on rotation in which the student will become a full member of the clinical team participating in all aspects of patient care including radiologic procedures. In addition, there is a program of lectures, case presentations, and guided self-instruction to update the student on the latest regarding integrating diagnostic and interventional imaging into patient management.

Upon successful completion of the rotation, the student will be able to: 1) develop differential diagnoses of common pathology based on radiographic imaging, and 2) understand the appropriate integration of radiologic imaging into patient management.

FACULTY: Drs. Maheen Rajput and Shawn Sato
MAX ENROLLMENT: 6
OFFERED: All periods, except 11/23/20 block
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Lucy Fasano
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: Must be dropped 4 weeks prior to the beginning of the section.

RAD 8402  VASCULAR AND INTERVENTIONAL RADIOLOGY

OBJECTIVES: The purpose of this elective is to expose the student to the broad range of diagnostic and therapeutic procedures performed by Interventional Radiology. Interventional radiology is a subspecialty of Radiology, which is responsible for the performance of a wide array of percutaneous, vascular and non-vascular procedures. These include angiography, angioplasty, vascular reconstructions, vascular embolization, percutaneous nephrostomies, biliary drainage, and placement of custom devices in the vascular tree and elsewhere.

Students in this elective will join the clinical interventional service, staff, fellows and residents. You will be expected to participate in the diagnostic workup and management of interventional patients as well as in the performance of selected interventional procedures. You will be involved in the daily readouts and teaching on the interventional clinical service and participate in interventional and interdisciplinary interventional conference, and familiarize yourself with research opportunities.

FACULTY: Sandeep Laroia, M.D.
MAX ENROLLMENT: 2
OFFERED: All periods pending approval of Dr. Laroia
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Lucy Fasano
REPORT TO: See ICON or departmental email
OBJECTIVES:

Students are involved directly with the patient care and management under the immediate supervision of the faculty. They rotate through all five clinical services:

1. Head and Neck Carcinoma, 2. Thoracic, 3. GI/GU/Metastases, 4. Lymphoma/CNS/Pediatric, 5. Gynecological/Breast/Sarcomas

Under the direction of the faculty, the students evaluate patients for radiotherapy and help plan the course of radiotherapy treatments. They also participate in the discussion regarding these patients in multidisciplinary tumor boards and departmental conferences. The students are exposed to a variety of neoplasms and attend the multidisciplinary conferences relating to their patients.

The goal of the course is to expose the student to the field of radiation oncology and cancer management, and give them an understanding of the interactions of radiation therapy, chemotherapy, and surgery.

FACULTY: John Buatti, M.D.
MAX ENROLLMENT: 3
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Shawn Reynolds
REPORT TO: See ICON or departmental email
DEPARTMENT OF SURGERY

COURSE DIRECTOR: Dr. Luis Garcia

CONTACT PERSON: Noel VanDenBosch
1527 JCP
356-4499

SURG:8401 ADVANCED GENERAL SURGERY

OBJECTIVES Students on senior electives in surgery will increase their knowledge by focusing on a specific area of surgical practice with a particular full-time faculty member, serving as a preceptor. The students will strengthen their clinical skills in perioperative patient assessment and management, in use of diagnostic studies pertinent to the surgeon’s practice, and assisting or performing procedures under direct supervision.

ACTIVITIES A broad range of clinical activities in the operating room, clinics, wards, and intensive care units is possible depending on the preceptor’s practice. This may also include night and/or weekend call activity at the discretion of the preceptor. However, more than 40 but less than 80 total hours of clinical activity should be expected.

FACULTY: Department of Surgery Faculty
MAX ENROLLMENT: 5
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Noel VanDenBosch
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: No more than one senior student can be on a general surgery team with junior students on their required clerkship, whether those students are doing electives or sub-internships. Coordinator will request team preferences prior to rotation start date.
OBJECTIVES: Sub-interns will improve students’ clinical skills by assuming an intern’s level of responsibility for the assessment and management of a limited number of patients, under the direct supervision of a senior surgery resident. The sub-interns will increase their proficiency with perioperative patient assessment and management, including selecting and interpreting appropriate laboratory and radiologic studies. Sub-interns may also participate in procedures, but at least 80% of their time should be spent managing in-patients.

Sub-interns will accomplish this by working as a member of a surgical resident team, including approximately weekly night/weekend call at the same time as a faculty member on the team so that the sub-interns may participate in the entire spectrum of patient management from the stage of initial surgical consultation. Sub-interns will be asked to submit goals and strategies for achieving their goals in advance. The chief residents will be asked to review and revise these goals as appropriate. At the end of the month, sub-interns will be asked to review how these goals have been met with the course director, residency program director, or chair of surgery.

FACULTY: General Surgery Staff
MAX ENROLLMENT: 5
OFFERED: All periods
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Noel VanDenBosch
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: Only one student per team. Coordinator will request team preferences prior to rotation start date.
DEPARTMENT OF UROLOGY

COURSE DIRECTOR: Dr. Chad Tracy
CONTACT PERSON: Amy Candelario
            3251-B RCP
            356-2910

URO:8401     ADVANCED GENERAL UROLOGY

OBJECTIVES: The student will become an integral member of the team, functioning at the PGY-1 level (i.e. responsible for histories and physicals on admission, daily inpatient rounds, attending surgery, and seeing patients in the urology clinic). The student will be given graded responsibility for as much as possible in surgical cases.

FACULTY: Dr. Tracy
MAX ENROLLMENT: 2
OFFERED: All blocks
LENGTH OF ELECTIVE: 4 weeks
ADMINISTRATIVE CONTACT: Amy Candelario
REPORT TO: See ICON or departmental email
SPECIAL CONDITIONS: Students considering a Urology residency are encouraged to meet with Dr. Tracy.

URO:8402     PEDIATRIC UROLOGY

OBJECTIVES: Under the direction of the urology resident assigned to the pediatric service as well as the pediatric urology faculty, the senior student is expected to participate in the evaluation of clinical patients and the care of selected surgical patients, including preoperative evaluation, intraoperative assistance, and postoperative care. The student is encouraged to work under a close mentor-student relationship to develop skills in pediatric urology.

FACULTY: Drs. Cooper, Storm, and Lockwood
MAX ENROLLMENT: 1
OFFERED: All blocks, limited in May and September
LENGTH OF ELECTIVE: 2 or 4 weeks
ADMINISTRATIVE CONTACT: Amy Candelario
REPORT TO: See ICON or departmental email
OBJECTIVES: The student will have a multispecialty exposure to the diagnosis and treatment of patients with current and newly diagnosed urologic malignancies. The student will spend on average 1-2 days per week in either medical oncology or radiation oncology and the remainder of the time in either the urology oncology clinic or ORs. The student will attend the urology conferences, specifically indications, radiology, and pathology, in addition to the bi-monthly multispecialty tumor board. This course is designed for students planning to enter into primary care and have an interest in oncology or men’s health issues and for students with an interest in urology.

FACULTY: Drs. O’Donnell, Brown, Tracy, Nepple, Gellhaus, and Pearlman

MAX ENROLLMENT: 1

OFFERED: All blocks, limited in November and December

LENGTH OF ELECTIVE: 2 or 4 weeks

ADMINISTRATIVE CONTACT: Amy Candelario

REPORT TO: See ICON or departmental email