3rd Year Family Practice

3 FP | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Course Description

Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

3rd Year Medicine

3 MED | 4th Year Elective | Internal Medicine | Clinical Science

Course Description

Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Kathy Pipkins (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA
Course Materials
TBA

3rd Year Neurology/Geriatrics Makeup
3 NEUR | 4th Year Elective | Neurology | Clinical Science

Course Description
Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
This course is designed to use as a placeholder on a 4th year student schedule. Course makeup time includes 3 weeks Neurology and 1 week Geriatrics and must be prearranged with Denise Chichester in Educational Affairs

3rd Year Obstetrics and Gynecology
3 OBG | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

Course Description
Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)
3rd Year Pediatrics

3 PEDS | 4th Year Elective | Pediatrics | Clinical Science

Course Description

Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Additional Information

This needs to be approved by the clerkship director at least one month prior to starting.

3rd Year Psychiatry

3 PSY | 4th Year Elective | Psychiatry | Clinical Science

Course Description

Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)
• Beth Magyari (Course Staff)

Meeting Place and Time
TBA

Course Materials
TBA

3rd Year Surgery
3 SURG | 4th Year Elective | Surgery | Clinical Science

Course Description
Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule. This course should be scheduled during the time period in which a 3rd year clerkship is to be completed during the 4th year.

Course Faculty and Staff
• Matthew Ryan MD, PhD (Director)
• Beth Magyari (Course Staff)

Meeting Place and Time
TBA

Course Materials
TBA

4th-Year Required Geriatrics/Rehabilitation Clerkship - Shands/Jacksonville
MED R 3J | 4th Year Required | Aging and Geriatrics Research | Clinical Science

Prerequisites
NOT OFFERED UNTIL FURTHER NOTICE

Course Description
NOT OFFERED UNTIL FURTHER NOTICE

Course Faculty and Staff
4th-Year Required Geriatrics/Rehabilitation Clerkship-Brooks Rehabilitation Hospital/Jacksonville
MED R 5J | 4th Year Required | Aging and Geriatrics Research | Clinical Science

Prerequisites
4th year UF medical student

Course Description
2 weeks Jax (Mon-Th), 2 weeks plus all Fridays UF/Gvl area. The student will serve as the sub-intern for medically complex patients in a subacute, rehabilitative, palliative care, or long term care setting. Students will manage medical problems and also learn how to function as part of an interdisciplinary team.

Course Faculty and Staff
- Brian K Stanton (Course Staff)
- Melanie Hagen MD (Other Faculty)
- Geneva Jacobs MD (Other Faculty)
- Dani Brown (Course Staff)
- Trevor Paris MD (Other Faculty)
- Mallory Otto MD (Co-Director)
- Jacobo Echeverri MD (Co-Director)

Meeting Place and Time
4 weeks: 2 Jax Mon-Thurs, 2 weeks and Fridays in Gvl. 2 Brooks sites: Rehabilitation Hospital or Bartram Crossing Skilled Nursing / Rehab. 1 week on Palliative and 1 week on Geriatric Medicine at UF or VA assigned by program.

Course Materials
All materials required for successful completion of the clerkship are available in StudyCore:
Geriatric Clerkship - For Material Distribution
https://studycore.medinfo.ufl.edu/php/content.php?courseid=1628

**Additional Information**

*Bring a copy of your driver’s license, immunization and TB records.
*Your active participation is required in each of these small group sessions as outlined in the Student Responsibilities and Expectations portion of the course syllabus

**4th-Year Required Geriatrics/Rehabilitation Clerkship-Shands/Gainesville**

**MED R 3 | 4th Year Required | Aging and Geriatrics Research | Clinical Science**

**Prerequisites**

4th year UF medical student

**Course Description**

The student will serve as the sub-intern for medically complex patients in a subacute, rehabilitative, palliative care, or long term care setting. Students will manage medical problems and also learn how to function as part of an interdisciplinary team.

**Course Faculty and Staff**

- Brian K Stanton (Course Staff)
- Wilda Murphy MD (Other Faculty)
- Mallory Otto MD (Co-Director)
- Melanie Hagen MD (Other Faculty)
- Jacobo Echeverri MD (Co-Director)

**Meeting Place and Time**

4 weeks: 2 Rehab Mon-Thurs (OSMI Mon/Th afternoons), all Fridays required group sessions at UF, 1 week on Palliative and 1 week on Geriatric Medicine at UF or VA assigned by program.

**Course Materials**

All materials required for successful completion of the clerkship are available on the website. All documents
https://studycore.medinfo.ufl.edu/php/content.php?courseid=1628

**Additional Information**
*Students attending the Shands Rehabilitation Hospital must have a UF parking decal to park at the UF Orthopaedics and Sports Medicine Institute Mon/Tues afternoons 2 weeks. https://studycore.medinfo.ufl.edu/php/content.php?courseid=2157

4th-Year Required Geriatrics/Rehabilitation Clerkship-Signature Healthcare/Gainesville

MED R 6 | 4th Year Required | Aging and Geriatrics Research | Clinical Science

Prerequisites
4th year UF COM medical student

Course Description
2 of 4 weeks (Mon-Thu) at Signature HealthCARE of Gainesville, a 120-bed skilled nursing facility, and offers 24-hour nursing care from physical, occupational, and speech therapies, to short-term and long-term skilled nursing care services. 1 week on Medicine and 1 week on Palliative. Transportation required.

Course Faculty and Staff
- Brian K Stanton (Course Staff)
- Bhanuprasad Sandesara MD (Other Faculty)
- Mallory Otto MD (Co-Director)
- Jacobo Echeverri MD (Co-Director)
- Laurence M. Solberg MD (Other Faculty)

Meeting Place and Time
4 weeks: 2 Rehab Mon-Thurs (Signature SNF and some time at Senior Care or tba), all Fridays required group sessions at UF, 1 week on Palliative and 1 week on Geriatric Medicine at UF or VA assigned by program.

Course Materials
Online materials in Study Core - Material Distribution
https://studycore.medinfo.ufl.edu/php/content.php?courseid=1628

Additional Information
Department of Aging and Geriatric Research
4th-Year Required Geriatrics/Rehabilitation Clerkship-VA/Gainesville
MED R 4 | 4th Year Required | Aging and Geriatrics Research | Clinical Science

Prerequisites
4th year UF medical student

Course Description
The student will serve as the sub-intern for medically complex patients in a subacute, rehabilitative, palliative care, or long term care setting. Students will manage medical problems and also learn how to function as part of an interdisciplinary team.

Course Faculty and Staff
- John R Meuleman MD (Other Faculty)
- Brian K Stanton (Course Staff)
- Melanie Hagen MD (Other Faculty)
- Miho Bautista MD (Other Faculty)
- Mallory Otto MD (Co-Director)
- Jacobo Echeverri MD (Co-Director)

Meeting Place and Time
2 weeks Rehab Mon-Thurs GVL VA GEM/PCU, all Fridays required group sessions at UF/VA, 1 week on Palliative and 1 week on Geriatric Medicine at UF or VA assigned by program.

Course Materials
https://studycore.medinfo.ufl.edu/php/content.php?courseid=1628

Additional Information
*Print orientation packet from Study Core “Clinical Site Orientation VA GEM PCU”
*Students who participate in rotations at the VA are required to complete VA CPRS access training.

Adolescent Medicine
PED E 10 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Fourth year medical student, successful completion of pediatrics clerkship.
Course Description

Adolescence is a time of change whether socially, mentally, or physically. Adolescent Medicine is an important aspect of Pediatrics, Family Medicine, and Internal Medicine. Adolescent patients are also seen in most other areas of medicine. Having an understanding of Adolescent Medicine will benefit you no matter what area of medicine you choose. Often there is not adequate time during Internship or Residency for this valuable part of your education. The 4th year of medical school is an ideal time to take this elective.

1. Appreciation of adolescent development as it pertains to Health care and delivery.
2. Application of standard interviewing techniques to adolescent healthcare provision.
3. Understanding of common adolescent health care needs.

Course Faculty and Staff

- Tom Martinko MD, FAAP, (Director)
- Ratna Acharya MD (Co-Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Monday - Fridays 8:00 a.m. - 5:00 p.m., Adolescent Clinic, CMS building A, 1701 SW 16th Ave

Course Materials

Various Adolescent Medicine texts, Journal Articles, Appropriate Internet sources

Additional Information

Students will see patients in the adolescent clinic and present to the preceptor. They will present a topic to high school students in the community with the pediatric resident on the rotation. They will also present on a topic of interest to the team at the end of the rotation.

Advanced Issues in Medical Ethics and Law

CM E 21 | 4th Year Elective | Community Health and Family Medicine | Basic Science

Prerequisites

4th year medical student

Students must be pre-approved if intending to schedule this course as an independent study elective. Student must get approval from either course director and complete independent study form.
Course Description

COURSE REQUIREMENTS:
Regular attendance, unless arrangements made with course director for online performance if travelling.
Seminar style presentations on assigned topics unless taking as independent study.
Special attention to topics in student's chosen area of specialization. Student required to make a powerpoint or other type of presentation on a topic that could be presented during residency.

Course Faculty and Staff

- William L Allen JD (Co-Director)
- Ly-Le Tran MD, JD (Co-Director)
- Bernie Amaro (Course Staff)

Meeting Place and Time

to be arranged

Course Materials

Books, articles, websites, and audio visual materials

Advanced Pelvic Anatomy with Clinical and Surgical Correlations

OBG E 5 | 4th Year Elective | Obstetrics and Gynecology | Basic Science

Prerequisites

4th year UF COM student
Interest in pelvic anatomy for residency

Course Description

(1) Hands on cadaveric pelvic anatomy dissections
(2) Didactics and surgical correlation (videos and live surgery)
(3) Assigned reading list on basic pelvic anatomy, surgical techniques and complications.

Course Faculty and Staff

- Alice S Rhoton-Vlasak MD (Co-Director)
- Cynthia Puckett (Course Staff)
- Nash Moawad MD (Director)
- Kyle Rarey PhD (Co-Director)
Meeting Place and Time

TBA

Course Materials

(1) Surgical videos
(2) Cadaveric lab
(3) TeLinde’s operative gynecology
(4) Assigned articles
Schedule will be sent ahead of time

Advocacy Through Pediatrics

PED E 24 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Satisfactory completion of the third year pediatric clerkship. Students submit a project proposal to Dr Novak by e-mail 1 month prior to starting the rotation. (http://residency.pediatrics.med.ufl.edu/files/2012/03/project-proposal-template.pdf).

Course Description

The pediatric advocacy rotation is designed to enhance students understanding of their professional role and duty to advocate as it relates to their patients and community. The rotation will help to equip the students with the tools they need to perform a needs assessment of their community, form partnerships with community based organizations, and advocate locally and as part of the legislative process. The students should have a particular issue for which they wish to advocate, and the activities of the rotation will be centered around said issue.

Course Faculty and Staff

- Maureen A Novak MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Email Dr Novak 1 week prior to the start of the rotation to determine a time and place for orientation. At this time a 4 week calendar of events will be provided.

Course Materials

Pediatrics 2005;1151092-1094, 1119-1212
AAP Advocacy Guide
"So You Think You Want to Make a Difference" (article)
Additional Information

Please think about an advocacy project idea prior to the start of the rotation. Students MUST submit a project proposal at least 1 month prior to the start of the rotation prior to the start of your rotation.

Alternate Contact = Amy Cole; 252-273-8594; Room HD 513; email coleaj@peds.ufl.edu

Ambulatory and Community Family Medicine

CM E 32 | 4th Year elective | Community Health and Family Medicine | Clinical Science

Prerequisites

Completion of 3rd year requirements

Course Description

COURSE GOALS: This course is designed to provide the student with exposure to outpatient experience in either the family practice center and/or family physicians in practice outside the residency program. In the FPC, students will experience the continuity of care in the residency program, and enhance their knowledge of ambulatory care, evaluation and management. In alternative sites, students will be exposed to different practice models including solo private practice, group practice, rural practice (with one including obstetrics), and private practice with hospital care included.

Course Faculty and Staff

- Kimberly K Zinkel (Course Staff)
- Tina Engstrom (Course Staff)
- Karen L. Hall MD (Director)

Meeting Place and Time

Prior to beginning the rotation, please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main, to get the time and location.

Course Materials

Family Medicine Textbook

Ambulatory Pediatrics

PED E 14 | 4th Year Elective | Pediatrics | Clinical Science
Prerequisites
The successful completion of the 3rd year of medical school training, specifically the pediatric clerkship.

Course Description
COURSE GOALS: To participate in a variety of pediatric ambulatory sub-speciality outpatient clinical settings. To enhance the student's ability to obtain, evaluate, and process multiple forms of clinical data in pediatric subspecialty patient encounters.

Course Faculty and Staff
- Henry Rohrs III MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
The majority of clinics are located in the Shand's Medical Plaza, Children's Medical Service's Center, and Shands Children's Hospital.

Course Materials
A general pediatric text. This may include Nelson's Textbook of Pediatrics or Rudolph's Pediatrics. An additional quick review condensed text may also be helpful in the quick paced ambulatory settings.

Additional Information
The student will contact the course administrator, Meghan Lopez (meghanlopez@peds.ufl.edu) no less than two weeks prior to the rotation. The student and course director will create a rotation with pediatric subspecialty care clinics based on the students interests and specific goals while also considering clinic availabilities.

Anatomy - Independent Study
ANAT IS | 4th Year Elective | Anatomy | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Anatomy at the University of Florida College of Medicine. Students must submit an Independent Study
Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Anesthesiology - Clinical Independent Study

ANS CIS | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Anesthesiology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials
Anesthesiology - Externship
ANS EXT | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the department of Anesthesiology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Anesthesiology - Independent Study
ANS IS | 4th Year Elective | Anesthesiology | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Anesthesiology at the University of Florida College of Medicine. Students must submit an Independent Study
Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

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**ANS E 1-Clinical Elective in Anesthesia-Shands OR and VA OR/Pain Clinic**

**ANS E 1 | 4th Year Elective | Anesthesiology | Clinical Science**

**Prerequisites**

This course listing is specifically for 4th year non-UF medical students requesting an externship rotation at UF COM.

This course is not to be scheduled by UF COM students.

Please contact the course director, Dr. Chris Giordano, at cgiordano@anest.ufl.edu with any questions.

**NOTE:**

Non-UF students who apply to participate in this rotation should submit the following in addition to their application: copy of transcript; photo attached to application; letter of recommendation; letter of good standing and a written statement of why you are interested in participating in an Anesthesiology elective with the University of Florida College of Medicine. All applicants must apply through VSAS in order to be considered.

**Course Description**

During this course the student will learn the basics of airway management, mechanical ventilation, invasive hemodynamic monitoring, management of fluids, and use of vasoactive medications. In addition, the student will be taught concepts of preoperative evaluation, basic
principles of anesthesia and management of acute postoperative events. Participants will be exposed to the operating rooms of Shands and FSC ambulatory center

The course will begin with an Introduction at 8 am on the first Monday of each elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine modules corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.

**Course Faculty and Staff**

- Christopher Giordano MD (Director)
- Madalyn Murray (Course Staff)

**Meeting Place and Time**

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

**Course Materials**

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

**Online Modules**

**Additional Information**

Dates available are highly subjected to monthly internal student load and the limited capacity available according to the time of year. Therefore please be very flexible on dates and have alternatives readily available.

Day-to-day scheduling is flexible including possible rotation through several sub-specialties or focus on a single sub-specialty (neurosurgery, cardiothoracic, pediatrics, obstetrics, orthopedics, pain, regional, etc) please let the course manager (Ms. Madalyn Murray) know in advance if you have any preferences. There are a few lectures throughout the course but clinical experience and contact with faulty is emphasized.

**ANS E 1C-Career Track Anesthesiology Elective**

**ANS E 1C | 4th Year Elective | Anesthesiology | Clinical Science**

**Prerequisites**
This course is only offered to 4th year UF COM students who are interested in pursuing a residency in Anesthesiology. This course is only offered in period 3B, which will allow enough time to contact faculty for a letter of recommendation for their application.

Completion of this course does not include the curriculum requirements that would allow it to count towards completion of the 2 week Required Anesthesiology course.

**Course Description**

This course is structured to give additional clinical exposure to students who are interested in becoming an Anesthesiologist as well as stimulating academic achievement. The educational curriculum is very similar to the Anesthesiology and Critical Care Clerkship, however each student will be required to participate in at least one academic project to be mentored by a faculty member during this two-week course. The project has no restrictions and can include anything that the student wants so long as the faculty member agrees. At the conclusion of the course, each student will be required to submit a one-page (maximum) abstract summarizing the project. This will encourage a personal and professional relationship with an academic anesthesiologist that can provide ample opportunity for letters of recommendation.

Subsequently, we recommend students enrolling in the Anesthesiology / Critical Care Clerkship prior to the career track elective if possible in order to develop a baseline clinical and academic acumen that can be bolstered during this course. The clinical hours are exceptionally flexible and meant to strengthen current skills, and to provide ample time to work on academic project

**Course Faculty and Staff**

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

**Meeting Place and Time**

Students will be notified at prior to the start of the rotation.

**Course Materials**

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Students are encouraged to review modules that are offered during the Anesthesiology / Critical Care Clerkship

**Additional Information**
This course is only offered to 4th year UF COM students who are pursuing a residency in Anesthesiology. Completion of this course does not include the curriculum requirements that would allow it to count towards completion of the 4 week Required ANS/ICU course.

ANS E 4-Obstetric Anesthesia
ANS E 4 | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites
Often taken consecutive with Anesthesiology/Critical Care Clerkship.

Course Description
This rotation is designed for senior medical students with significant interest in either obstetrics or anesthesiology. We strive to provide additional depth beyond the required Anesthesiology/Critical Care Clerkship. We expect students who complete this rotation to gain an understanding of neuraxial anesthesia and analgesia, overview of physiologic changes of pregnancy and their clinical implications and management of the critically ill obstetric patient.

This course will provide:
1. Clinical experience with spinal blocks for labor analgesia and operative procedures in the obstetric patient.
2. Education in daily obstetrical anesthesia rounds (7:30am).
3. Opportunity to deliver an oral presentation on a topic of the student's choice or patient presentation with discussion of management options and implications.

Course Faculty and Staff
- Adam L. Wendling MD (Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time
Patients will be seen in the Labor & Delivery Suite of Shands. Labor and Delivery, 3rd Floor, 7:30am-5:00pm weekdays.

Optional recommended attendance of Friday mornings to our Department’s Grand Rounds at 6:30am in North Tower 2147.

Course Materials
Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).
You will receive a book chapter from Clinical Anesthesia Practice as well.
Recommended articles:
3. Anim-Somuah M, Smyth RMD, Jones L. Epidural versus non-epidural or no analgesia in labour. Cochrane Database of Systematic Reviews. 2011(12); Art.

Additional Information
The intent of this clerkship is to give the student interested in anesthesiology or Ob-Gyn an understanding of OB Anesthesia.

The clerkship can be taken for only 2-weeks.

ANS R 1-Anesthesiology & Critical Care Clerkship/Trauma Critical Care

ANS R 1 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites
This course is not offered to non-UF students.

Course Description
This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.
The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point.

Course Faculty and Staff

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

Course Materials

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library)

Online Modules

Additional Information

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in 3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

ANS R 1J-Anesthesiology & Critical Care Clerkship-Jax/Neuro ICU Gville

ANS R 1J | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites

Senior UF Medical Student - not offered to non-UF students

NOTE:
The Critical Care portion of this course will be completed the first two weeks of the rotation in Gainesville, followed by the Anesthesiology portion in Jacksonville

Course Description

The clerkship is divided into two blocks: Anesthesiology and Critical Care Medicine. This is a four-week clerkship that will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. The Critical Care two-week block in Gainesville will ask students to treat critically ill patients, and
implement the necessary interventions for stabilization and management. Students are expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to, airway management, invasive hemodynamic monitors, Intravenous fluid replacement and the use of vasoactive medications. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The block at Gainesville will begin with an introduction at 8 am on the first Monday of the elective period. The students are required to complete all online modules prior to attending the Simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship.

The Anesthesia portion of the rotation in Jacksonville will consist of being paired with anesthesia residents or CRNAs, in the main OR setting, the preoperative block room, or on the labor and delivery floor. Students are expected to arrive daily by 6:45 am in order to obtain their room or anesthesia provider assignments. Students must prepare for each operative case by researching the patient, the comorbidities, and operation. OR start time is 7:15 am daily. Wednesdays are the resident education day, and students are to attend the morning grand rounds as well as the resident lectures. Medical student specific lectures will be given throughout their two week rotation, to be conducted by assigned attendings and/or residents.

**Course Faculty and Staff**

- Adrienne Warrick MD (Co-Director)
- Christopher Giordano MD (Co-Director)
- Claudia Chavarro (Course Staff)
- Dani Brown (Course Staff)
- Madalyn Murray (Course Staff)

**Meeting Place and Time**

GNV Neuro ICU: Course Lectures/Labs will be held in the HME Bldg in Rm 465 and 460.
JAX Anesthesia: Day 1: 8 am in the Dept of Anest on the 2nd flr (located by Central Staff elevator bank). Report to Claudia Chavarro in the Anesthesia Education Office.

**Course Materials**

Gainesville:
Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library)
Online Modules
Jacksonville:
Handbook of Clinical Anesthesia by first author Paul G. Barash; will be provided on loan to rotators.

Additional Information
The ICU portion of this course will be completed the first 2 weeks of the rotation in Gainesville, followed by the OR portion in Jacksonville.

Questions regarding the Anesthesia rotation in Jacksonville please email course director Adrienne Warrick, MD at adrienne.warrick@jax.ufl.edu.

Questions regarding the Gainesville portion of the rotation please e-mail course director Chris Giordano, MD at cgiordano@anest.ufl.edu.

ANS R 2-Anesthesiology & Critical Care Clerkship/Surgical ICU
ANS R 2 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites
This course is not offered to non-UF students.

Course Description
This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.
The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the midpoint.

**Course Faculty and Staff**

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

**Meeting Place and Time**

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

**Course Materials**

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

**Online Modules**

**Additional Information**

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in 3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

**ANS R 2J-Anesthesiology & Critical Care Clerkship-Jax/MICU Jax**

ANS R 2J | 4th Year Required | Anesthesiology | Clinical Science

**Prerequisites**

This course is not offered to non-UF students

NOTE - The ANS portion of this course will be completed the first 2 weeks, followed by the MICU portion of the rotation.

**Course Description**

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to, airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive
medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

Students will be paired with anesthesia residents or CRNAs, in the main OR setting, the preoperative block room, or on the labor and delivery floor. Students are expected to arrive daily by 6:45 am in order to obtain their room or anesthesia provider assignments. Students must prepare for each operative case by researching the patient, the comorbidities, and operation. OR start time is 7:15 am daily. Wednesdays are the resident education day, and students are to attend the morning grand rounds as well as the resident lectures. Medical student specific lectures will be given throughout their two week rotation, to be conducted by assigned attendings and/or residents.

The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point. Students will also have the opportunity to elect which Intensive Care Unit they would like to rotate through.

Course Faculty and Staff

- Adrienne Warrick MD (Co-Director)
- Christopher Giordano MD (Co-Director)
- Claudia Chavarro (Course Staff)
- Dani Brown (Course Staff)
- Madalyn Murray (Course Staff)

Meeting Place and Time

Day 1: 8 am in the Dept of Anest on the 2nd flr (located by Central Staff elevator bank). Report to Claudia Chavarro in the Anesthesia Education Office.

Course Materials

Handbook of Clinical Anesthesia by first author Paul G. Barash; will be provided on loan to rotators.

ANS R 3-Req. Anesthesiology & Critical Care Clerkship/Neurological ICU

ANS R 3 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites

This course is not offered to non-UF students.
Course Description

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8:00 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.

The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point.

Course Faculty and Staff

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

Course Materials

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Online Modules

Additional Information

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in
3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

ANS R 4-Anesthesiology & Critical Care Clerkship/Cardiovascular ICU

ANS R 4 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites

This course is not offered to non-UF students.

Course Description

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8:00 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.

The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point.

Course Faculty and Staff

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time
Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

**Course Materials**

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

**Online Modules**

**Additional Information**

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in 3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

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**ANS R 5-Anesthesiology & Critical Care Clerkship/VA Surgical ICU**

**ANS R 5 | 4th Year Required | Anesthesiology | Clinical Science**

**Prerequisites**

This course is not offered to non-UF students.

**Course Description**

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8:00 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Wednesdays of the clerkship followed by two small group discussions on the third Tuesday.
The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the midpoint.

Course Faculty and Staff

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

Course Materials

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Online Modules

Additional Information

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in 3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

ANS R 6-Anesthesiology & Critical Care Clerkship/Medical ICU

ANS R 6 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites

This course is not offered to non-UF students.

Course Description

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The
formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8:00 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.

The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point.

Course Faculty and Staff

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

Course Materials

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Online Modules

Additional Information

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in 3B. Please email the Course Director, Chris Giordano, MD at cgiordano@anest.ufl.edu with any questions.

ANS R 7-Anesthesiology & Critical Care Clerkship/Pediatric ICU

ANS R 7 | 4th Year Required | Anesthesiology | Clinical Science

Prerequisites

This course is not offered to non-UF students.
**Course Description**

This four-week clerkship will challenge medical students to manage patients undergoing surgical procedures as well as those being cared for in the Intensive Care Unit. During the Operative two-week block, each student will be expected to critically examine the perioperative process as well as learn the fundamental procedures that are coupled to it. Those procedures include, but are not limited to airway management, invasive hemodynamic monitors, intravenous fluid replacement and the use of vasoactive medications. The Critical Care two-week block will ask students to treat critically ill patients, and implement the necessary interventions for stabilization and management. The education begins with modules that each student must complete prior to the corresponding didactic session. The formal didactics tests critical thinking skills that will be exercised by simulation and problem-based learning discussions.

The course will begin with an Introduction at 8:00 am on the first Monday of the elective period. The students are required to complete each online module prior to attending the simulation, which will be time stamped and recognized for grading. There are two simulations on the first Monday, meaning that they need to be completed prior to beginning the clerkship. There are a total of nine simulations corresponding to the nine simulations or problem-based learning discussions. There will be two lectures on the first two Mondays and Tuesdays of the clerkship followed by two small group discussions on the third Tuesday.

The clerkship is divided into two week blocks: Anesthesiology and Critical Care Medicine. Half of the class will start in each part, and will switch at the mid-point.

**Course Faculty and Staff**

- Christopher Giordano MD (Director)
- Sean Kiley MD (Co-Director)
- Madalyn Murray (Course Staff)

**Meeting Place and Time**

Course Lectures/Labs will be held in the Harrell Medical Education Building in Room 465 and 460.

**Course Materials**

Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

**Online Modules**

**Additional Information**

Students who are considering Anesthesiology as a career should take the Anesthesiology / Critical Care Clerkship in rotations 1 or 2. This will best prepare them for a Career Elective in
Applied Gross Anatomy

**ANAT E 1 | 4th Year Elective | Anatomy | Basic Science**

**Prerequisites**

Matriculation into the fourth year. Satisfactory completion of the first three years of medical school.

**NOTE** - Applied Gross Anatomy has a fee of $540 per student registered. There is a minimum of 5 students required in order for this course to be offered. In the event that the course is discontinued (minimum of 5 students not met), all registrants will receive a full refund of the fee.

**Course Description**

Dissection of cadaver material will be conducted and the dissections reviewed with one of the Anatomy faculty members. The program will be tailored to student interests and needs. A series of dissections designed to illustrate specific areas of clinical interest may be selected or a complete dissection may be chosen that will review the anatomy of the entire body.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Venkatesh Nonabur M.D., (Director)

**Meeting Place and Time**

Meeting place will be notified though email prior to rotation date.

Time- 8am-12noon; Monday through Thursday. Friday will substitute for any day missed due to schedule changes.

**Course Materials**

Anatomy Atlas (Student chooses, Reference textbooks and research literature

**Additional Information**

NOTE - Applied Gross Anatomy has a fee of $540 per student registered. There is a minimum of 5 students required in order for this course to be offered. In the event that the course is discontinued (minimum of 5 students not met), all registrants will receive a full refund of the fee.
Arts and Healthcare in Sub-Saharan Africa

PED E 20 | 4th Year Elective | Pediatrics | Basic Science

Prerequisites

To schedule this elective you must contact the co-directors concerning your interest and mutually arrange an appropriate schedule. The travel distance and time are long; therefore the elective should be 4 weeks minimum.

4th year UF medical student in good standing after the completion of all the required courses and rotations through the 3rd year of medical school.

Students must be preapproved to participate in this externship prior to scheduling.

Course Description

This month long fourth year externship provides UF College of Medicine students with the opportunity to learn about health care in The Gambia, West Africa and to develop projects using medical humanities better to understand psychosocial issues in the maintenance of health and treatment of dis-ease. Roughly half of the time will be spent in neighborhood clinics observing medical practice, healthcare and health concerns in this African nation. The other half of the time will be spent in planning programs and/or assisting in community outreach.

Course Faculty and Staff

- Robert M Lawrence MD (Co-Director)
- Nina Stoyan-Rosenzweig (Co-Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

This course can be scheduled by contacting the co-directors, directly to arrange a schedule. Contact R. Lawrence - lawrerm@peds.ufl.edu or Nina Stoyan Rosenweig - nstoyan@ufl.edu

Course Materials

The use of photographs, sound recordings or video from The Gambia as part of their presentations on their return. This will require signed release forms from the participants.

Additional Information

Participation in the course and travel to the Gambia will require preplanning- acquiring a visa, immunizations, and appropriate malaria medication. Plane fare also will be more reasonable if reservations are made in advance.

Appropriate health insurance will be required
Autopsy Pathology
PATH E 2 | 4th Year Elective | Pathology | Clinical Science

Prerequisites
Successful completion of the basic science curriculum.

Course Description
COURSE GOALS: This elective is structured to provide senior medical students an introduction to autopsies and postmortem examinations, including death investigations, forensic autopsies, detailed dissections, toxicology and court testimony. During this elective, the student will:

1. Review medical, social and other information, formulating appropriate workup strategies
2. Review organ pathology through active participation in autopsies (including dissecting), autopsy conferences, and case reviews.
3. Enhance physical diagnostic skills applicable to gross analysis of organs, and expand those findings with the microscopic examination of samples taken.
4. Understand COD (cause of death) and MOD (manner of death) determinations and which deaths must be reported to the medical examiner's office
5. Become competent at certifying natural deaths.

Course Faculty and Staff
- Wendy Stroh DO (Director)
- Emilee Rice (Course Staff)

Meeting Place and Time
8:30 am: Autopsy Unit (MG-35), OR the District 8 Medical Examiner's Office, 606 SW 3rd Avenue, 352-273-9292.

Course Materials
Current autopsy cases, including hospital and forensic cases. Selected readings as assigned by director.

Additional Information
This rotation combines the resources of the Shands/UF morgue and the District 8 MEO, necessitating travel between the two locales. Students are given the opportunity to attend crime scenes and perform autopsies, at the discretion of the director.

**Basic Neurosurgery For Non-Neurosurgeons - Jacksonville**

NSU E 1J | 4th Year Elective | Neurosurgery | Clinical Science

**Course Description**

The student will attend monthly Neurology/Neurosurgery Grand Rounds, M&M Conferences, daily rounds with an neurosurgeon attending and PA. Also, opportunities to scrub in surgical cases as assistant.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Daryoush Tavanaiepour MD (Director)
- Dani Brown (Course Staff)
- Noretta Rasmussen (Course Staff)

**Meeting Place and Time**

Department of Neurosurgery; Neuroscience Institute, 580 W. 8th Street, Plaza 1, 8th Floor, Jacksonville, FL 32209

**Course Materials**

Handbook of Neurosurgery; Reprints of journal articles; Imaging study films

**Additional Information**

Daily rounds with one attending.

**Becoming an Effective Resident Teacher**

PATH E 16 | 4th Year Elective | Pathology | Basic Science

**Prerequisites**

4th year Medical Student

**Course Description**

This is a self-paced on-line course that consists of 9 modules and associated assignments.
This 2-credit longitudinal on-line course is designed to prepare students for teaching responsibilities which they will assume as an intern and resident. Topics will include adult learning theory, writing learning outcomes, principles of assessment, bedside teaching, providing feedback and approaches to the “struggling learner”. The rationale for this elective is that despite the expanded teaching role that interns and residents have, there exists no formal preparation for these responsibilities; in addition, documentation of teaching activities and quality has become more important for career progression and promotion in academic teaching tracks.

The course is designed to be flexible and self-paced to accommodate students’ schedules especially during residency interview season.

**Course Faculty and Staff**

- Joseph C. Fantone III MD (Director)
- Ikiah Young (Course Staff)

**Meeting Place and Time**

Students are encouraged to collaborate with each other but submit their own work/assignments. Meetings with the course director can be arranged on an individual or group basis as needed.

**Course Materials**

Assignments are available on the 4th year Course Documents module in StudyCore.

**Additional Information**

**Goal:**
To prepare medical students for teaching during their residency and beyond.

**Learning Outcomes:**
Each student will be able to:
• Compare and contrast different learning theories and how they apply to medical education.
• Explain the basis of “adult learning theory”
• Explain the importance of “intended learning outcomes” in directing/focusing learning
• Write effective “intended learning outcomes”
• Write effective multiple choice test items
• Apply the principles of effective feedback in multiple learning settings
• Apply different clinical teaching techniques in the clinical setting
• Identify and discuss underlying reasons why some learners struggle

**Evaluation of Student’s Performance:**
Students are expected to complete all assignments demonstrating effective achievement of the learning outcomes. Grading is satisfactory/unsatisfactory.
Biochemistry Independent Study
BIO-IS | 4th Year Elective | Biochemistry | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Biochemistry at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Maureen A Novak MD (Co-Director)
- Patrick Duff MD (Co-Director)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Biomedical Informatics
EPI E 2 | 4th Year Elective | Health Outcomes and Policy | Basic Science

Prerequisites
UF COM 4th year students

Course Description
The goal of this 2-credit, longitudinal course is to introduce medical students to the academic discipline and practice of biomedical informatics, to include practical skills in information management that are relevant throughout one’s medical career. Biomedical informatics is the science and practice of information in support of all activities that improve human health, from patient care to research to public health and more.

**Course Faculty and Staff**

- William Hogan MD, MS (Director)

**Meeting Place and Time**

All students, regardless of period subscribed, must contact course director and have an initial meeting before September. Future meetings and schedule will be determined at that meeting based on the student's clinical rotations.

**Course Materials**


This book is downloadable as a PDF from the UF library.

**Brain Stimulation Unit (BSU) at Shands**

**PSY E 4 | 4th Year Elective | Psychiatry | Clinical Science**

**Prerequisites**

Completion of third year clerkship

**Course Description**

This elective offers additional training in acute, inpatient psychiatry and psychopharmacological treatment, with a particular emphasis on electroconvulsive therapy.

**Course Faculty and Staff**

- Louis Solomon MD (Co-Director)
- Martha Brown MD (Director)
- Terry Lemesh (Course Staff)

**Meeting Place and Time**

Brain Stimulation Unit (BSU); 5th floor, Shands Hospital, 8am
Breast Cancer: A Multidisciplinary Perspective

SUR E 15 | 4th Year Elective | Surgery | Clinical Science

Prerequisites

4th year student

Course Description

Students will gain a multidisciplinary perspective on the current management of breast cancer by spending time with members of the UF-Shands Breast Cancer multidisciplinary program (Surgical Oncology, Medical Oncology, Radiation Oncology, Radiology, Pathology, and Genetics). Through hands-on patient experience students will develop a thorough understanding of the role that each specialty plays in the modern management of breast cancer patients. Students also will participate in the weekly breast cancer tumor board culminating with a brief lecture to the members of the breast cancer tumor board on a current topic in breast cancer.

Course Faculty and Staff

- Julia K Marshall (Other Faculty)
- Nicole A Massoll MD (Other Faculty)
- Mandy Robertson MD (Other Faculty)
- Judith Lightsey MD (Other Faculty)
- Michele Silver (Course Staff)
- Christina Shaw MD (Other Faculty)
- Lisa Spiguel MD (Other Faculty)

Meeting Place and Time

Contact Dr. Christiana Shaw (christiana.shaw@surgery.ufl.edu 1 week prior to course for meeting time and location and schedule.

Course Materials

Handouts provided as needed.

Burn Unit

SUR E 7 | 4th Year Elective | Surgery | Clinical Science
Prerequisites
Surgery 3rd year clinical rotation

Course Description
COURSE GOALS: Participate as an active team member providing comprehensive patient management under supervision, thus permitting the student to become familiar with the role of an intern. Assessment and treatment of patients with thermal, chemical and electric injury stressing resuscitation and emergency management, infection control, nutritional support, surgical treatment and rehabilitation. Patient management involves the critical care, surgical, rehabilitative and outpatient settings.

Course Faculty and Staff
- Michele Silver (Course Staff)
- David W Mozingo MD (Director)
- Winston Richards MD (Other Faculty)

Meeting Place and Time
Contact the Surgery Education Office at 265-0916 several days before the start of the rotation for reporting instructions.

Cardiology Inpatient And Consultative Services - Jacksonville
MED E 1J | 4th Year Elective | Internal Medicine | Clinical Science

Course Description
This elective involves rounding on the inpatient Cardiology Consultative service with the house-staff assigned to that rotation. This will generally consist of an internal medicine resident, a cardiology fellow and the attending physician in charge. Pre-rounds usually occur prior to meeting with the attending physician who will determine the exact hour to officially go over consults that have been pre-evaluated by the team (student, resident, fellow). Usually consults that come overnight are seen early in the am – time, order and distribution of these patients is determined by the Cardiology fellow who leads this pre-rounding.

Course Faculty and Staff
- Frank J Genuardi MD, MPH (Other Faculty)
- Gladys Velarde MD (Director)
- Mildred Bautista (Course Staff)
- Dani Brown (Course Staff)
- Kelly Grooms (Course Staff)
Meeting Place and Time
Cardiac Intensive Care Unit; 5th Floor ACC Building; Shands Jacksonville.

Course Materials
Compendia will be provided.

Cardiovascular Critical Care - Jacksonville
MED E 9J | 4th Year Elective | Internal Medicine | Clinical Science

Course Description
This elective involves rounding on the Cardiology Coronary Care unit with the house-staff assigned to that service. This will generally consist of two teams each formed by two or three residents (IM or EMD) and a Cardiology Fellow. One attending physician is typically in charge of both teams. Call usually alternates between the two teams. Pre-rounds usually occur prior to meeting with the attending physician who will determine the exact hour to officially round on patients admitted to the CCU. The attending physician usually rounds with the post call team first in the am so as to allow them to finish early and stay within regulations of duty hours. Cardiology fellows are in charge of the assignments of

Course Faculty and Staff
- Frank J Genuardi MD, MPH (Other Faculty)
- Gladys Velarde MD (Director)
- Mildred Bautista (Course Staff)
- Dani Brown (Course Staff)
- Kelly Grooms (Course Staff)

Meeting Place and Time
Cardiac Intensive Care Unit; 5th Floor ACC Building; Shands Jacksonville.

Course Materials
Compendia will be provided.

CHFM - Clinical Independent Study
CM CIS | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites
UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Community Health and Family Medicine at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Additional Information

TBA

CHFM - Externship

CM EXT | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the department of Community Health and Family Medicine. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
CHFM - Independent Study

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Community Health and Family Medicine at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Child and Adolescent Psychiatry

Prerequisites
Fourth Year Medical Student - students must contact the Course Director prior to the start of their rotation.

**Course Description**

This rotation will be tailored to the specific interests and needs of participating students. Students will see a variety of psychiatric diagnoses in the child and adolescent population, including Autism, ADHD, OCD, Tourette's Disorder, Depression, Anxiety, Bipolar Disorder, and Psychotic disorders. It consists of mostly outpatient experiences and exposure to the UF Child & Adolescent Psychiatry Clinic, and may include rotations to community-based or off-clinic sites; including community mental health in rural settings; juvenile justice and inpatient child psychiatry. This elective is well-suited for students who want to learn more Child and Adolescent Psychiatry; whether they wish to enter a primary care or a Psychiatry residency in the future.

**Course Faculty and Staff**

- Martha Brown MD (Co-Director)
- Terry Lemesh (Course Staff)
- Michael Shapiro MD (Director)

**Meeting Place and Time**

Students must contact the Course Director prior to the start of their rotation.

Time: 8am at beginning of rotation
Place: Division of Child and Adolescent Psychiatry Outpatient Clinic
Springhill
E-mail Michael Shapiro, MD: mshapiro@ufl.edu

**Course Materials**


**Additional Information**

Faculty Participants - All faculty of the Division of Child and Adolescent Psychiatry.

**Child Protection and Forensic Pediatrics - Jacksonville**
Prerequisites

4th year medical student

Course Description

Course Description:
Forensic Pediatrics is the study of child abuse as it relates broadly to pediatrics. This elective is both didactic and heavily experiential - combining study, lectures, and field experiences. Identification, diagnosis, management, and policy issues will be addressed. At the conclusion of this elective, the senior medical student will have a greatly increased understanding of child abuse and how it is a major component to child and adult health, and a set of skills in its identification.

The didactic portion consists of readings in child abuse (books, articles, CDs, photographic atlases). The student will have field experiences in a clinic seeing physical abuse, sexual abuse and neglect; observe child interviews; review current child abuse case records; participate in child abuse consultations on the hospital and observe community activities including DCF investigations, court, law enforcement, and child abuse prevention. There is an opportunity to also observe telemedicine examinations.

INTRODUCTION

In many primate societies, its smallest and most vulnerable members are both cherished and occasionally abused by adults. Humans also mistreat their young - at a relatively high rate. The statistics about this are many, but a few to consider:
1. Child abuse has been experienced in one form or another by at least 30% of the adult population
2. Child abuse is the leading cause of death between 6 months of age and 12 months of age. It is the second leading cause of death between 6 months and 12 years of age.
3. Over 90% of prisoners were victims of child abuse; over 90% of prostitutes were sexually abused as children; and about 70% of adult psychiatric outpatients were victims of child abuse
4. It is conservatively estimated that there are an additional 36,000 violent criminals and 250 murders in the US each year because of child abuse
5. Child abuse is conservatively estimated to cost at least $124 billion per year to society
6. Each case of shaken baby syndrome costs at least $1 million
7. Medical schools in the US typically provide 2 hours of formal training about child abuse
8. The CDC states that adverse childhood experiences are the most important health problem in the U.S.

The goal of this elective is not to make you a specialist in the area (this would require a three year fellowship post residency), but to heighten your awareness as to the diversity and depth of the problem, and to enhance basic skills in identification and intervention. (At the
conclusion, you should be more familiar with child abuse issues than most pediatric residents.)

Several key misconceptions that are common among the general public and many physicians include:
1. The primary means to determine if a child has been sexually abused is to send her to the doctor for an examination
2. Children can suffer a fair amount of physical abuse or neglect, but will turn out ok if they are then placed in a loving environment
3. Child abuse is an infrequent, abnormal condition of humanity and would not be caused by nice people such as themselves

Welcome to one of the most interesting, sophisticated and diverse areas of medicine! The children and adults you care for during the rest of your career will be better because of your insights and the knowledge you obtain.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Randell Alexander MD, PhD (Director)
- Kathleen Dully MD (Other Faculty)
- Rachel Thomas PhD (Other Faculty)

**Meeting Place and Time**

Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville
8 a.m.
Following check-in, students will be assigned to the Child Protection Team office, 4539 Beach Blvd., Jacksonville

**Course Materials**

**READINGS**

Week 1
1. Shaken baby syndrome packet of articles

Week 2
1. Munchausen syndrome by proxy packet of articles

Week 3
1. CD - ROM The Anatomy of Child and Adolescent Sexual Abuse

Week 4
Additional Information

Sample monthly schedule

Field Experiences
1. Child abuse clinic
2. In-patient consultations on child abuse cases
3. Forensic interview
4. Juvenile/criminal court
5. Child abuse prevention program
6. Child protective services
7. Law enforcement

Clinic and Consultation Service in Neurology

NEUR E 1 | 4th Year Elective | Neurology | Clinical Science

Prerequisites

3rd year Neurology clerkship

Course Description

To increase the student's knowledge of the nervous system, and of neurologic disease; to improve his/her ability to evaluate patients with neurologic disease; and to enhance his/her skills in the diagnosis and treatment of neurologic disease. The outpatient and consultation service setting allows students considerable time for reading and in-depth consideration of the patients they see. This course is recommended to students committed to a career in neurology; to students potentially interested in neurology as a career and seeking help in making a choice; and to students not interested in neurology as a career but wanting to improve neurological skills in preparation for a career in a related field or simply those seeking a well-rounded clinical education. The setting (consultation and clinic) time distribution can be tailored to address the student's goals.

Course Faculty and Staff

- Kelly Martin (Course Staff)
- Polly Glattli (Course Staff)
- Daniel Martinez-Ramirez MD (Director)

Meeting Place and Time

Contact Concerned faculty according to your schedule for time & location before the start date. Then meet with residents on ward 65.

Course Materials
Additional Information

The location (inpatient/clinic) and focus of the activities will be tailored to each student's needs and goals. It is possible to focus on a subspecialty (example - behavioral neurology) or a location (example - Malcom Randall VAMC) with prior approval of the director before beginning the course.

Clinical Cardiology

MED E 4 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

Students will work closely with specific faculty preceptors and fellows in cardiovascular medicine. Duties will consist of evaluating patients with cardiovascular problems on the inpatient medical and surgical services. This typically includes patients with coronary artery disease, angina, and atrial fibrillation. In addition, students can expect to evaluate patients for preoperative cardiovascular risk assessment prior to non-cardiac surgery. Other common referrals include syncope, chest pain, dyspnea, congestive heart failure, and congenital heart disease in adults. Students will evaluate patients semi-independently and will present information to the fellow and attending on consult rounds. In addition, students on this elective participate in our cardiovascular teaching conferences, which include a weekly Clinical Case conference, a conference series for Housestaff, Cardiology Grand Rounds, and Medical Grand Rounds. During the elective, students will have formal directed exposure to reading ECG's, supervising treadmill stress tests, and observing a limited number of cardiac catheterization procedures. Students may take the elective for 2 weeks or 4 weeks. Only one student will take the elective at a time.

Course Faculty and Staff

- Matthew McKillop MD (Co-Director)
- Rachel Lepanto (Course Staff)

Meeting Place and Time

On the first day of the rotation, please report to room M-443 between 8:45 and 9:00 AM.

Course Materials
A written handout with schedules and instructions will be provided on the first day of the elective.

**Additional Information**

Before and during the elective, contact Ms. Rachel Lepanto - 352-273-9082; lepanrl@medicine.ufl.edu for assistance. You may also contact Matthew McKillop, MD at (352) 273-9082 or mckilms@medicine.ufl.edu for questions or concerns.

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**Clinical Chemistry, Hematology and Coagulation: Laboratory Approaches to Clinical Medicine**

**PATH E 4 | 4th Year Elective | Pathology | Clinical Science**

**Prerequisites**

Successful completion of the basic science curriculum.

**Course Description**

This rotation is provided by Drs. William E. Winter and Neil Harris. Topics to be reviewed in mini-seminar format include the application of clinical chemistry to clinical medicine, clinical interpretation of laboratory results and analytical methods used in clinical laboratory practice. Included in this rotation will be an emphasis on coagulation testing and related hematology topics. An emphasis is placed on the effects of pre-analytical variability on laboratory testing. The clinical clerk also will gain exposure to the clinical chemistry consult service. Much of this work involves interpretation of SPEs, UPEs, IFEs, hemoglobin electrophoresis and HIV antibody western blots. Rotations through the STH-UF laboratory and Stat lab can be arranged to familiarize the student with the daily operation of the laboratory.

Students should collect the MR#'s of interesting patients that they would like to discuss. At least one mini-seminar will be held daily with the attending faculty. Often 2 mini-seminars will be conducted daily. Electrophoresis is interpreted in the afternoon. It is expected that students will spend a minimum of 1 hour preparing for the mini-seminar and 2 hours of reading after each mini-seminar. Students can review the gels prior to electrophoresis interpretation (1 hour). Electrophoresis rounds takes 1 to 2 hours. Following rounds, students should read about the cases discussed (~2 hours).

**Course Faculty and Staff**

- Neil S. Harris MD (Director)
- Emilee Rice (Course Staff)

**Meeting Place and Time**
On the first day of the rotation students should attend the Clinical Pathology (CP) conference at 7:30 AM in N1-18 (1st floor Conference Room). After the conference Dr. Winter and the student will plan when they will meet.

**Course Materials**


**Additional Information**

This rotation provides an overview of the daily life of the academic clinical pathologist. This is a great opportunity for students to review the integration of basic and clinical science in preparing for USMLE step 2.

**Clinical Dermatology**

**MED E 11 | 4th Year Elective | Dermatology | Clinical Science**

**Prerequisites**

4th year medical students.

Non-UF students applying for this rotation should also submit a copy of their transcript and a personal statement.

**Course Description**

Provide instruction in the techniques of examination of skin.

Enhance the student's vocabulary in describing skin lesions.

Introduce the student to most of the common skin diseases and a few of the less common diseases.

Provide experience in dermatological prescribing and compounding..

Demonstrate the techniques of skin biopsy as well as surgical excision.

Demonstrate competence in the preparation of a dermatologic topic of interest or a case presentation for the small group learning sessions (approximate 15-20 min each)

**Course Faculty and Staff**

- Megan McCann (Course Staff)
- Ann Church MD (Director)

**Meeting Place and Time**
8:00 AM on First day of rotation - report to UF Dermatology Skin and Cancer Clinic, located in Springhill Medical Building, located at 4037 86th Terrace, Gainesville (off 39th Ave near Santa Fe College) 4th floor of the building.
Phone 352-594-1500

**Course Materials**

Dermatology for the House Officer
Clinical Dermatology, Soutor and Hordinsky
Kodachromes provided by Dermatology  
(These are provided by the department for the period of the rotation and turned in at the completion of the rotation.)

**Additional Information**

Participants should receive email from Derm Ed Coordinator prior to rotation - Megan McCann.
email = meganjmccann@ufl.edu
phone = 352-594-1925

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**Clinical Elective - Otolaryngology/Jacksonville**

**OTOL E 1J | 4th Year Elective | Otolaryngology | Clinical Science**

**Prerequisites**

NONE

**Course Description**

General background in otolaryngology head & neck surgery through patient care in the clinic setting, operating room, and in the care of inpatients at UF & Shands Jacksonville.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Iman Naseri MD (Director)
- Glenn Knox MD (Other Faculty)
- Eugenia Smith (Course Staff)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Otolaryngology Clinic; 2nd floor Faculty Clinic; 8:30 AM on the first day of the rotation

**Course Materials**
General otolaryngology textbooks

Additional Information

Educational Goals:
- Use framework of otolaryngology to develop an understanding of core principles in surgery
- Develop an ability to identify, diagnose and initiate treatment of common otolaryngologic diseases
- Acquire knowledge necessary to recognize various otolaryngologic disease conditions and complications:
  - Acute care and management of upper airway obstruction and difficult airway patients
  - Care and management of tracheostomy patients
  - Exposure to various modes of endoscopy (nasal, pharynx, larynx, and esophageal)
  - Various types of otitis and hearing loss, sinusitis and headache
  - Head and neck cancer diagnosis and treatment
  - Various types of sinusitis including various medical and surgical management.
- Learn basic principles for the diagnosis and management of common otolaryngologic conditions
- Improve comprehension of head and neck anatomy and learn to apply it in both the clinical examination and surgical environment setting.
- Hands on experience and daily teaching of routine clinical and operative patient management
- Introduction to basic surgical techniques in the operating room setting

Student Responsibilities:
- Participate in rounds
- Active participation in the division’s educational programs
- Follow and manage patients admitted to the otolaryngology inpatient service under the immediate guidance and supervision of the designated attending and resident
- Participate in the operating room
- Evaluate and present patients in clinic.

Clinical Elective in Gynecology

OBG E 3 | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

Prerequisites

Fourth year medical student

Students from outside institutions must meet the minimum criteria for being granted an interview for a UF OB/GYN residency position in order to be considered for the clerkship.

Course Description
This course will allow the student to gain experience in the management of outpatient problems commonly encountered by a general gynecologist. The student will learn how to properly perform a colposcopic examination. In addition, the student will gain experience in the perioperative management of gynecologic surgery patients. The student will accomplish these goals by working closely with the faculty and residents in clinics at the Medical Plaza, by performing minor surgical procedures and assisting with major cases, by rounding with the resident team, and by attending division educational conferences.

Course Faculty and Staff

- John D Davis MD (Director)

Meeting Place and Time

Attend core lecture at 7 AM on the first Monday of the rotation. Dr. Davis will meet with you right after core lecture and orient you to the service.

Course Materials

Heather Ellis will provide you with reading materials by email before the rotation starts. During the elective, I suggest you use TeLinde’s Operative Gynecology and Comprehensive Gynecology as references.

Additional Information

The department contact person for this course is the student clerkship coordinator, Heather Ellis. She can be reached at ellish@ufl.edu or 273-7675. Please contact her by email 1 week before the start of the elective so she can share important information with you. Please copy me at davisjd@ufl.edu when you email Heather.

Clinical Elective in MICU

MED E 12 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Medicine clerkship is mandatory
Sub-internship in Medicine is desirable

Course Description

Student will participate in the care of critically ill patients under the supervision of upper level internal medicine residents, pulmonary & critical care fellow and MICU attending.

Student will deliver succinct presentations during interdisciplinary MICU rounds. Student will write informative and insightful progress notes. Student will learn about coordination of care
in the ICU. Student will learn about physician-to-family communication with special attention to end-of-life issues.

Student will learn to interpret arterial blood gases, portable chest X-rays, and data from invasive monitoring of hemodynamics. Student will learn to evaluate and manage common problems in the ICU including fever, hypoxemia and hypotension. Student will learn to manage septic shock, ARDS, toxic syndromes and other problems. Student will learn about principles and practice of invasive and non-invasive mechanical ventilation. Students will learn about use of analgesics and sedatives in the ICU. Students will learn to manage discontinuation of mechanical ventilation. Student will learn about use of continuous infusions of various agents (vasopressors, vasodilators, inotropic / chronotropic agents, anti-arrhythmics, insulin, drotrecogin, analgesics, sedatives, paralytics). Student will learn about nutrition in ICU patients. Student will learn best practices for prevention of pulmonary embolism, ventilator-associated pneumonia, line infection, and gastritis / stress ulcer in ICU patients.

Student may perform certain invasive procedures including placement of arterial catheter and placement of central venous catheter. Student will learn indications for and may observe certain invasive procedures including intubation, bronchoscopy, chest tube placement, pulmonary artery catheterization, and percutaneous dilational tracheosotomy.

Students will participate in a series of small group discussions led by MICU fellow and / or attending addressing several topics of incontrovertible importance to the practice of critical care medicine. Discussions will include references to clinical cases, clinical trials, clinical guidelines and other materials.

**Course Faculty and Staff**

- Hassan Alnuaimat MD (Other Faculty)
- Jorge Lascano MD (Director)
- Irahim Faruqui MD (Other Faculty)
- Chris Pintado MPH (Course Staff)

**Meeting Place and Time**

Contact Chris Pintado prior to the start of the rotation 352-273-8667 or via email Christopher.Pintado@medicine.ufl.edu. The meeting place will be in M452 at 9 am in the HSC for the first morning of the rotation.

**Course Materials**

- Fink Textbook of Critical Care
- Marino The ICU Book.
- Articles of Interest.
- ARDS.
Results of this study found the use of low (6 ml/kg predicted weight) rather than "standard" (12 ml/kg predicted weight) tidal volumes reduced mortality from 40 to 30%.

A NHLBI ARDS net randomized trial comparing high and low PEEP strategies in 549 patients with ALI or ARDS found no significant difference in mortality, ventilator-free days, ICU-free days, or organ failure-free days in the two groups.

This study randomized 180 patients with persistent ARDS (7 to 28 days after onset) to methylprednisolone (daily dose 2 mg/kg x 14 days then 1 mg/kg x 7 days) vs. placebo. Hospital mortality and 180-day survival were comparable, but patients enrolled 14 or more days after ARDS onset had increased 60-day mortality (35% vs. 8% placebo, p = .02).

This study of 91 patients with severe ARDS has added fuel to the debate over systemic corticosteroid use in acute lung injury. The intervention group received steroids within 72 hours of ARDS diagnosis and a slow taper. Steroid recipients had decreased duration of mechanical ventilation and ICU stay. The higher proportion of patients with catecholamine-dependent shock among controls, cross over from control to steroids in "nonresponders" at day 7, and 2:1 randomization of treatment to control are among the concerns raised since its publication.

A randomized study, comparing conservative vs. liberal fluid management (via explicit protocols) applied over seven days to 1000 patients with acute lung injury. Although there was no significant difference in the primary outcome of 60-day mortality, the conservative strategy of fluid management shortened the duration of mechanical ventilation and ICU stay without increasing nonpulmonary-organ failure.

SEPSIS.

This update of the 2004 guidelines utilized a new approach for grading the evidence underlying recommendations. Noteworthy changes include elimination of the cosyntropin stim test and downgrading the recommendation to "weak" for hydrocortisone in patients with persistent shock and for activated protein C in patients with severe sepsis.

RCT (N = 499) found no 28-day mortality benefit to "physiologic" doses of hydrocortisone administered within 72 hours of sepsis onset, independent of the response to a corticotropin stim test. Difficulty with patient recruitment and lower than expected mortality led to the study having a power of < 35% to detect a 20% reduction in relative risk of death.
This RCT of 263 patients found benefit from early (in E.D.) aggressive resuscitation (in-hospital mortality of 30% in the goal-directed group compared to 46% in the standard therapy group). The intervention arm was noteworthy for prn use of blood transfusion and/or inotropes to maintain central venous O2 sat >70%. Authors speculate the earlier aggressiveness accounts for better outcomes than previous studies of goal-directed hemodynamic optimization.

HYPOTHERMIA

This article shows that in patients who have been successfully resuscitated after cardiac arrest due to ventricular fibrillation, therapeutic mild hypothermia increased the rate of a favorable neurologic outcome and reduced mortality.

NEPHROLOGY AND ICU

This review article explains the various forms of hemodialysis, ultrafiltration, and hemofiltration as well as the most common ICU indications for Renal Replacement Therapy.

LIVER AND ICU

1. http://ajrccm.atsjournals.org/cgi/reprint/168/12/1421
Review of the most common liver problems in the ICU as well as their management.

Update of the current practice guidelines for the treatment of varices, including use of antibiotics, octreotide, and IV PPI in the intensive care setting.

ENDOCRINE AND ICU

1. http://pmj.bmj.com/content/83/976/79.long
This review discusses the management of diabetic ketoacidosis, hyperosmolar hyperglycemic state, hypoglycemia, hypercalcaemia, thyroid storm, myxedema coma, acute adrenal insufficiency, pheochromocytoma hypertensive crisis and pituitary apoplexy in the adult population.

SEDATION AND ICU

RCT found daily interruption of sedation in a MICU population resulted in shorter duration of mechanical ventilation and ICU stay, less total dose of sedation, and less use of diagnostic tests to work-up impaired mental status compared to the control group. No increase in short term adverse outcomes in the intervention group identified but patients were not evaluated for subtle or long-term adverse outcomes.
This study is noteworthy for finding use of dexmedetomidine reduced the prevalence of delirium (54% vs 77% with midazolam) and for providing further evidence of the safety of using dexmedetomidine at higher doses and longer duration than currently approved by the FDA. There was no difference in the primary outcome, time spent at target level of sedation. Duration of mechanical ventilation was shorter with dexmedetomidine but length of ICU stay was similar.

WEANING MECHANICAL VENTILATION

Prospective, randomized study found once daily or multiple daily trials of spontaneous breathing (T-piece or CPAP <5 cm) resulted in more rapid successful extubation than gradual weaning of pressure support or IMV.

This RCT found the combination of daily sedation holiday and daily weaning trials resulted in reduced ventilator days and reduced mortality compared to daily weaning trials alone (HR 0.68, p = .01, NNT to save one life 7).

BMT AND ICU

1. http://ajrccm.atsjournals.org/cgi/reprint/170/1/22
A State of Art article that provides an excellent overview of the complications of solid organ and hematopoietic stem cell transplantation

Additional Information

You will received a list of articles of interest for your review before you start the rotation.

Clinical Elective on the Surgical Critical Care Service - Jacksonville

SUR E 6J | 4th Year Elective | Surgery | Clinical Science

Prerequisites
Completion of third year core rotation in General Surgery.

Course Description
The surgical critical care service provides comprehensive care for trauma surgery and surgical subspecialties. There are approximately 28 surgical critical care beds within the unit. Responsibilities include daily rounds, procedures, and didactic education.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
Meeting Place and Time

8:30 AM; Student Coordinator's (Wendy Crabb) office; 3rd floor Faculty Clinic

Clinical Elective on the Trauma Service - Jacksonville

SUR E 7J | 4th Year Elective | Surgery | Clinical Science

Prerequisites

Completion of third year core rotation in General Surgery.

Course Description

We are the only Level 1 Trauma Center in Northeast Florida. There are approximately 4000 trauma evaluations per year, with 18% being penetrating trauma. This rotation is on a busy trauma service and you will be expected to be involved in all aspects of patient care. This includes the initial evaluation of trauma patients, daily rounds, and operative cases.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- James W Dennis MD (Other Faculty)
- Joseph J Tepas III MD (Other Faculty)
- J. Bracken Burns DO (Other Faculty)
- Miren A Schinco MD (Other Faculty)
- Andrew Kerwin MD (Director)
- Indermeet Bhullar MD (Other Faculty)
- Jin Ra (Other Faculty)
- Eugenia Smith (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time

8:30 AM: Student Coordinator's (Eugenia Smith) office; 3rd floor Faculty Clinic
Clinical Endocrinology and Metabolism
MED E 7 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical students

Course Description

Previous information:

Hands-on experience in diagnosing and treating patients with endocrine diseases.

Supervision by attendings, fellows and residents on the Adult Endocrine consult and clinic services. The consultation service responds to referrals from both the VA and Shands hospitals and emphasizes teaching, both within the consult team and also directed toward the referring team.

Students are given the opportunity to see patients in various specialty clinics. Students experience a wide range of illnesses in these clinics (Diabetes, Lipid, Osteoporosis, Pituitary Tumors, Thyroid) and get exposure to thyroid ultrasound.

Weekly clinical conferences include, presentation of great cases and student presentations on clinically inspired topics.

Course Faculty and Staff

- Kenneth Cusi MD (Co-Director)
- Valerie Myrick (Course Staff)
- Catherine Edwards MD (Director)

Meeting Place and Time

At 8:30 a.m. CLINIC LOCATION: Medical Plaza Building, 3rd floor IMMS Clinic

Course Materials

Consults daily with scheduled out-patient clinics and/or in-patient consult service (5 days per week). Assigned readings.

Additional Information

Endocrinology Out-Patient clinic is located on the 3rd floor of the Medical Plaza Bldg., except for the Pituitary Clinic which is held on Fridays pm in the Neurosurgical Clinic (on the 1st Floor of the main hospital building just beside Shands Atrium and the outpatient lab and pharmacy)
Clinical Endocrinology, Diabetes and Metabolism-Jacksonville

MED E 10J | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
Successful completion of internal medicine clerkship.

Course Description
The Clinical Endocrinology, Diabetes and Metabolism Clerkship provides hands-on experience in the evaluation and treatment of patients with endocrine and metabolic diseases. History and physical examination are emphasized during this clerkship. Endocrinology faculty, fellows and core program residents on the Adult Endocrine consult and clinic services instruct and supervise clerks. The consultation service evaluates referrals from the UF Health Jacksonville medical center. Students are given the opportunity to evaluate patients in the endocrinology clinics. Students learn from a wide variety of patients presenting with diabetes mellitus, lipid disorders, pituitary pathology, thyroid disease and metabolic bone disease. Clerks are exposed to thyroid ultrasound and thyroid fine needle aspiration. Weekly clinical conferences include presentation of clinical cases and student presentations on clinically inspired topics. Additional conferences include endocrinology core lectures, journal clubs, multidisciplinary conferences that include surgeons, pathologists, radiologists and radiation therapists and Endocrine Grand Rounds. Opportunities to work in a basic science lab are also available.

Course Faculty and Staff
- Kent Wehmeier MD (Director)
- Joe Chehade MD (Other Faculty)
- Nancy Culpepper (Course Staff)
- Dani Brown (Course Staff)
- Gunjan Gandhi MD (Other Faculty)

Meeting Place and Time
Meet with the program administrator in the Endocrine Division 2nd floor of the Learning Resources Center at 8:00 a.m. to review the schedule of activities. Please contact Nancy Culpepper, at 904-244-3702 or email her at nancy.culpepper@jax.ufl.edu.

Course Materials

Additional Information
For the first day: Meeting with the program administrator in the Endocrine Division second floor of the Learning Resources Center at 8:00 a.m. to review the schedule of activities.

Clinic location: Emerson Medical Plaza Building A, Suite 200, 4555 Emerson Street, Jacksonville, FL 32207 about 10 minutes from the Endocrine Division Office. Required tools for examination include pen light, ruler, stethoscope and reflex hammer.

Clinical Gastroenterology

MED E 2 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical student.

Course Description

This course will provide an introduction to an understanding of common digestive and liver diseases including pathophysiology, diagnosis and treatment. The course will include inpatient consultation, outpatient, and weekly lecture series.

Course Faculty and Staff

- Stephanie Reed (Course Staff)
- Virginia Clark MD (Director)
- Tiffany Rhoden (Course Staff)

Meeting Place and Time

TBD.

Course Materials

Appropriate references and handouts "if available" will provided by the faculty and/ or fellows within the Division. The reference textbook to be utilized will be Gastrointestinal Disease, Schlesinger and Fordtran, 9th Edition, 2010.

The divisional website is to learn about the Faculty and what we offer.
www.medicine.ufl.edu/gastro

Additional Information

For more information regarding contact information, etc please email Stephanie Reed at Stephanie.Reed@medicine.ufl.edu.

Clinical Hematology
Prerequisites
Fourth Year Medical Student

Course Description
Goal of the course: To understand the approach to patients with hematological problems including red cell disorders, hemostasis and thrombosis, cytopenias, and primary bone marrow disorders. Anticoagulation and perioperative management of hematologic issues will also be an emphasis. The student will be a team member of the Shands-UF Hematology inpatient consult service and see patients with attending physicians in the Hematology outpatient clinics. Activities will include weekly Hematology case conferences and other Hem/Onc teaching conferences.

Course Faculty and Staff
- Marc S Zumberg MD (Director)

Meeting Place and Time
E-mail Dr. zumberg at zumbergs@medicine.ufl.edu. The rotation will start at 8:30 am on the first day of your rotation. You may also page the adult hematology fellow through the hospital operator the day you begin the rotation.

Course Materials
MEDLINE, web-based resources, clinical guidelines, and additional references including relevant textbook material provided by the faculty. Evidence-based approaches will be emphasized.

Additional Information
We welcome and encourage your participation in this elective. The amount of inpatient vs. outpatient experience can be negotiated based on the specific interests of the students.

Clinical Hematology/Oncology
MED E 6 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
Fourth Year Medical Student

Course Description
Students will work with a diverse faculty to learn the basic and applied principles for the care of patients with solid and hematologic malignancies. This is primarily an outpatient clinic rotation in the oncology clinics, however some inpatient time, if desired by the student, may be negotiated.

**Course Faculty and Staff**

- Merry-Jennifer Markham MD (Director)
- Jennifer Duff MD (Co-Director)
- Sandra StClair (Course Staff)

**Meeting Place and Time**

Contact Course Directors by email (merry.markham@medicine.ufl.edu AND jennifer.duff@medicine.ufl.edu) at least 1 week prior for exact meeting place and time.

Most clinics are held in the Medical Plaza/Davis Cancer Pavilion, 2nd Floor.

**Course Materials**

MEDLINE, HSC Library resources, web-based resources, clinical guidelines, and additional references including relevant material provided by the faculty. Evidence-based approaches will be emphasized.

**Additional Information**

A weekly schedule will be provided to the student at the start of the rotation. This will outline clinic experiences and conference attendance which will be expected during the rotation.

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**Clinical Nutrition**

**PED E 15 | 4th Year Elective | Pediatrics | Basic Science**

**Prerequisites**

UF Medical Students

**Course Description**

**COURSE GOALS:**

1. Nutritional requirements and metabolism in the normal individual throughout the life span.
2. Effect of participation in different sports on nutritional needs of the healthy individual.
3. Definition of and use of nutrition supplements, nutraceuticals, designer foods, functional foods, and medical foods.
4. Altered nutritional requirements and metabolism during different chronic diseases.
5. Parenteral and eternal nutrition support of critically ill patients.
**Course Faculty and Staff**

- Peggy Borum PhD (Director)
- Meghan Lopez (Course Staff)

**Meeting Place and Time**

The course is taught online. Patient contact can be included if arranged with the instructor.

**Course Materials**

To be provided. Student must confirm participation in this course with course director prior to the rotation and provide ufl.edu email address.

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**Clinical Obstetrics and Gynecology - Jacksonville**

OG E 1J | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

**Prerequisites**

PGY3 OB/GYN rotation

**Course Description**

This rotation is an opportunity to delve more deeply into obstetrics and gynecology. The student will experience one week on each of the services: gynecologic oncology, maternal-fetal medicine, benign gynecology, and labor & delivery. This busy urban setting offers a breadth of pathology and a true taste of the constant "controlled chaos" of our specialty. Excellent as an "audition rotation" or simply to broaden knowledge of women's health care issues.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Brent Seibel MD (Other Faculty)
- Angela Mardany (Course Staff)
- Kelly Best MD (Director)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Students should report at 0800 at the Obstetrics and Gynecology 4th Year Clerkship Coordinator’s office (Angela Mardany); Learning Resource Center 3rd Floor; 653-1 W. 8th Street; Jacksonville; FL 32209

**Course Materials**
Students are advised to have access to standard OB/GYN textbooks

Clinical Ophthalmology

OPH E 1 | 4th Year Elective | Ophthalmology | Clinical Science

Prerequisites

4th year medical student - Basic understanding of ophthalmology

This course is not open for periods 1 and 2 to non-UF students.

Course Description

Clinical Ophthalmology is generally a 4-week elective during which time the medical student has the opportunity to rotate on a variety of sub-specialty ophthalmic services. Students will work directly with the residents, fellows, and attending physicians. The rotations in which the student can participate include cornea and external disease/general; retina-vitreal; glaucoma; oculo-plastics; pediatrics; and neuro-ophthalmology.

Course Faculty and Staff

- Mabel Wilson (Course Staff)
- Matthew Gray MD (Director)
- Ashley West (Course Staff)

Meeting Place and Time

The student must initially come to Mabel Wilson or Debi Jackson (352-273-7540) in the Department of Ophthalmology; Room M-120K or M-120L on the Friday before the rotation begins, or on the beginning Monday. Students are expected to be in clinic on Monday.

Course Materials

There is a hand-out which can be obtained from Mabel Wilson or Debi Jackson in the Department of Ophthalmology. Students can ask for reading materials which are abundant and can be obtained at the Library or online through various websites. A list of course objectives will be provided in the orientation packet on the first day of the rotation.

Additional Information

Students interested in pursuing ophthalmology residency at UF are encouraged to present at a Grand Rounds for the department. Students should let Ms.Wilson know which residents/faculty they worked with at the end of each week to allow for accurate evaluations. A grade cannot be provided until this is done.
Clinical Pediatric Gastroenterology
PED E 6 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Fourth Year Medical Student

Course Description
On-line curriculum available
COURSE GOALS: Learn basic aspects of pediatric gastroenterology/hepatology/nutrition.

Course Faculty and Staff
- Christopher D Jolley MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
RG-120; 8:00am, Monday-Friday. (Outpatient and Inpatient experience)

Course Materials
File of pediatric gastroenterology/hepatology/nutrition articles; access to Medline.

Clinical Radiology/Jacksonville
RAD E 1J | 4th Year Elective | Radiology | Clinical Science

Course Description
NA

Course Faculty and Staff
- Gregory C Wynn MD (Other Faculty)
- Frank J Genuardi MD, MPH (Other Faculty)
- Barry McCook MD (Other Faculty)
- Jerry Matteo MD (Director)
- Janet Hawkins (Course Staff)
- Morgan Robinson (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
Clinical Sciences of the Musculoskeletal System
ORTH E 1 | 4th Year Elective | Orthopaedics | Clinical Science

Prerequisites
Senior medical student - Satisfactory completion of core clerkship rotations - Students pursuing a career in Orthopaedics should schedule this elective for no less than 4 weeks.

NOTE - Non-UF students who apply to participate in this rotation should submit the following in addition to their application: copy of transcript; photo attached to application; letter of recommendation; USMLE Step 1 score (copy of document); and a written statement of why you are interested in participating in an Orthopaedic Surgery elective with the University of Florida College of Medicine.

Course Description
The program will be offered at UF&SHANDS

COURSE GOALS
1. Provide experience and education in the evaluation and management of musculoskeletal disorders in an inpatient, outpatient, and Emergency Room setting.

2. Students will be have supervised responsibility in patient care, receive instruction in methods of examination, diagnosis, pre-and postoperative care and surgical techniques as applied to the musculoskeletal system.

3. Students participate in daily clinical conferences.

4. Students will be assigned to one of the Orthopaedic services. There will be a limit to one extern (senior medical student) per service.

If scheduling permits, students may rotate on one or more of the Orthopaedic services during their ortho elective rotation.

Course Faculty and Staff
- Kendra Gordon (Course Staff)
- Richard G Vlasak MD (Director)
- Kasey Barrett Sheffer (Course Staff)
Meeting Place and Time
South Tower, OR Conference Room, 2nd Floor - 7:00 AM Mon-Fri

Course Materials
Greene, W.B.
Essentials of Musculoskeletal Care.
Other reference sources depending on orthopaedic rotation

Clinical Skills Refresher Course
MED E 39 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
Completion of Third year medical school

Course Description
This is a two-week course to improve history taking, physical exam skills, clinical reasoning and developing a differential diagnosis and patient communication. In addition, attention will be placed on preparing students for USMLE Step 2 CS including the note writing and counseling skills. Students will undergo a series of CSEs with feedback and development of individualized Learning Plans during the course.

Course Faculty and Staff
- Carolyn Stalvey MD (Director)
- Maria Velazquez MD (Co-Director)
- Diana McCluskey (Course Staff)

Meeting Place and Time
Anacletio Learning and Assessment Center - Time = TBA

Course Materials
NA

Colorectal Surgery
SUR E 16 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
Successful completion of 3rd year Surgery Clerkship

Course Description

COURSE GOALS: Upon completion of this course, the learner will be able to: MEDICAL KNOWLEDGE 1. Evaluate and discuss common presenting signs and symptoms frequently seen by the practicing Colon and Rectal surgeon. 2. Complete a general surgery History and Physical. 3. Briefly describe the operative management of basic colon and rectal surgical problems, including, but not limited to: colon and rectal cancer, benign colon problems including colonic inertia, diverticulitis, inflammatory bowel disease, anorectal and pelvic floor disorder, and application of laparoscopy. 4. Recognition of recommended cancer screening and surveillance programs for colon and rectal patients. PATIENT CARE 1. Demonstrate proficiency in common intern-level duties including nasogastric tube insertion, excision of thrombosed hemorrhoids, incision and drainage of perianal abscesses, and basic suturing. 2. Recognize the role of existing and emerging technology and research in the field and practice of Colon and Rectal surgery. 3. Reliably use the Internet and electronic tools as a medical resource. PROFESSIONALISM 1. Expand his/her exposure to, and appreciation for, a career in colon and rectal surgery and academic surgery. 2. Become more keenly aware of the opportunities available to residents in general surgery. LEARNING ACTIVITIES: The students who choose this rotation as an elective will participate as a member of a very busy and academic Colon and Rectal Service in the Department of Surgery at the University of Florida. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Students will be expected to attend all General Surgery related conferences including Morbidity and Mortality Conference, Surgical Grand Rounds, Basic Science Conference and Mortality Conference, and Journal Club. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. Although the curriculum is flexible, it is expected that the student will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 15-minute slide presentation on some aspect of Colon and Rectal Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

Course Faculty and Staff

- Sanda Tan MD, PhD (Director)
- Michele Silver (Course Staff)

Meeting Place and Time

Contact the Surgery Education Office at 265-0916 several days before the start of the rotation for reporting instructions.

Course Materials
Common and Advanced Procedures

CM E 41 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites

4th year medical student

NOTE - there is a $50 Material and Supply fee applied, per student for participation beginning Spring 2014.

Course Description

The development of clinical procedural skills is an important part of medical education. However, proficiency in any particular procedure is dependent on incidental exposure, which is highly variable month to month. This elective will combine simulators with clinical experience to increase exposure to and proficiency in both common and advanced procedures. The skills you learn will enhance your preparation for residency training and beyond. The following procedures will be covered: central line placement, lumbar puncture, knee arthrocentesis, shoulder injections, splinting and casting, peripheral IV placement, airway management, suturing, cryotherapy, punch biopsy, I&D of abscesses, ingrown toenail removal, stress testing, pulmonary function testing, typanometry, arterial puncture, foley catheter insertion, chest tube insertion and the FAST exam. You will also have the opportunity to choose from a list of procedures to observe, to gain a better understanding of what the patient experiences before you will order these tests on your patients as residents.

Course Faculty and Staff

- Jocelyn Gravlee MD (Director)
- Allison Geagan (Course Staff)

Meeting Place and Time

We will meet at 1:00 pm on the first Monday of the course in the Harrell Medical Education Building. Procedural activities will take place M-F with the option of additional procedural opportunities on the week-end and evenings if desired.

Course Materials

Reading materials, procedure videos, the course syllabus and schedule are all located on the course website at medinfo.ufl.edu.
Additional Information

NOTE - there is a $50 Material and Supply fee applied, per student for participation beginning Spring 2014.

Critical Care Externship - Jacksonville

MED E 4J | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Must be in 4th year of training and have completed core 3rd year rotations. Note that in-house call is expected on every 4th night.

Course Description

NA

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Lorraine Sims (Course Staff)
- Lisa M. Jones MD (Director)
- Sonya Newsome (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time

0600 on first day of rotation in Medical ICU; 7th floor; Shands Jacksonville. Report to Senior Resident on call from the previous night.

Course Materials

Orientation Disc; Recommended; Washington Manual; Critical Care Handbook (either Drs. Marik or Marino)

Cytopathology: Diagnosis and Screening Applications in Human Disease

PATH E 13 | 4th Year Elective | Pathology | Clinical Science

Prerequisites

4th year Medical Student

Course Description
This elective will provide a broad experience in Medical and Gynecologic Cytopathology in the diagnosis of human neoplasia and inflammatory and infectious diseases. Experience and knowledge in the application and interpretation of cytopathologic samples including fine needle aspirates (FNA's) of the thyroid and other masses, bronchial brush and bile duct sampling, bladder washings, cervical cytologic sampling (Pap testing), body cavity fluid cytology, as well as other diagnostic experience will be gained. Correlation with current surgical pathology materials will be performed. Experience will include use and interpretation of immunohistochemistry, human papillomavirus molecular testing, and other diagnostic methods that can be applied to cytologic cellular samples. Daily morning teaching conferences are available at 7:30AM directed to Pathology education that the student is welcome to attend. Room N1-18.

Course Faculty and Staff

- Edward J Wilkinson MD, FCAP, (Director)
- Layla Alizadeh MD (Co-Director)
- Emilee Rice (Course Staff)

Meeting Place and Time

Anatomic Pathology, Shands at UF 1st floor, entrance at the Atrium. Please arrive at 8:30 a.m. on the first day. Professional dress preferred with UF badge. Teaching conference at 7:30AM in room N1-18.

Course Materials

Materials available for study include:
- DeMay R, The Art & Science of Cytopathology, ASCP Press or the abbreviated one book text by DeMay (also by ASCP Press).
- Bibbo M Editor, Comprehensive Cytopathology, Saunders
- Geisinger, et al, Modern Cytopathology, Churchill-Livingstone
Active clinical cases reviewed one on one with the Cytopathologist. CD ROM and glass slide teaching materials. Major current reference medical texts, cytopathology journals, ASCCP (asccp.org) and ASC website updates, Medline and others. Lectures, conferences and direct faculty instruction.

**Additional Information**

This rotation includes active participation with pathology faculty in the Cytopathology and Surgical Pathology sign out areas, as well as patient contact within the FNA clinics. Please wear your UF badges at all times, and white coat for the FNA clinic or when observing bedside FNA procedures.

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**Dermatology - Clinical Independent Study**

**DERM CIS | 4th Year Elective | Dermatology | Clinical Science**

**Prerequisites**

4th year UF COM student

**Course Description**

This course should be selected when scheduling a clinical independent study. Please note that a completed Clinical Independent Study Application is required to be submitted at least 4 weeks prior to the rotation in which this course is scheduled.

**Course Faculty and Staff**

- Matthew Ryan MD, PhD (Director)
- Beth Magyari (Course Staff)

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**Dermatology - Externship**

**DERM EXT | 4th Year Elective | Dermatology | Clinical Science**

**Prerequisites**

4th year UF COM student

**Course Description**

This course should be selected when scheduling an away rotation in Dermatology.

**Course Faculty and Staff**

- Matthew Ryan MD, PhD (Director)
Dermatology - Independent Study

DERM IS | 4th Year Elective | Dermatology | Basic Science

Prerequisites

4th year UF COM student

Course Description

This course should be selected when scheduling a research independent study in Dermatology. Please note that a completed Research Independent Study Application must be submitted at least 4 weeks prior to the start of the rotation in which this course is scheduled.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Co-Director)
- Beth Magyari (Course Staff)

Elective in Clinical Anesthesia - Jacksonville

ANS E 1J | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites

4th year medical student

Course Description

Students will be involved in perioperative care while on the Anesthesiology service. They will serve as acting interns (externs) under the supervision of residents and attending physicians from the Department of Anesthesiology. Objectives of the externship are to learn to perform a thorough preoperative evaluation, formulate options for intra-operative care, perform basic procedures such as airway management techniques and obtaining vascular access, and implement a therapeutic regimen for the post-operative care.

Day-to-day scheduling is flexible including possible rotation through several subspecialties or focus on a single subspecialty (i.e. cardiothoracic, pediatrics, obstetrics, orthopedics, regional, etc). Please let us know in advance if you have any preferences (email requests to Claudia Chavarro claudia.chavarro@jax.ufl.edu ). There are a few lectures and/or simulation...
sessions throughout the course but clinical experience and contact with faculty is emphasized

**Course Faculty and Staff**

- Hernando DeSoto MD (Other Faculty)
- Oleksiy Zynov MD (Other Faculty)
- Zachary Deutch MD (Other Faculty)
- Adrienne Warrick MD (Director)
- Kristen Vanderhoef MD (Other Faculty)
- Claudia Chavarro (Course Staff)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Main OR pre-op holding (2nd floor Clinical Center) 6:45 am
Alumni Auditorium- (2nd floor Clinical Center) Grand Rounds -Wed 7 am
Anesthesia Conference Room- Resident Lectures- Wednesday 8 am - 2 pm. Visiting professor journal clubs - TBA (wednesday AMs)

**Course Materials**

Clinical Anesthesia Procedures of the Massachusetts General Hospital, 8th edition Handbook - copies available from UF COM Jacksonville Department of Anesthesia

**Additional Information**

This course is intended for those students with an invested interest in the field of Anesthesiology and Perioperative medicine. It is considered a "sub-internship" rotation in Anesthesiology.

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**Emergency Medicine - Clinical Independent Study**

**EMD CIS | 4th Year Elective | Emergency Medicine | Clinical Science**

**Prerequisites**

UF 4th year medical student

**Course Description**

TBA

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)
Meeting Place and Time
TBA

Course Materials
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Emergency Medicine at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Additional Information
TBA

Emergency Medicine - Elective Shands
EMD E 1 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites
Satisfactory completion of third year curriculum.
Non-UF students applying for this rotation must submit a current CV and letter of recommendation along with the externship application.

Course Description
COURSE GOALS: This course will provide:
1. An introduction to acute care medicine where the student will be expected to function as a member of the physician team and actively participate in diagnosis and treatment of life-threatening illnesses. Students will be active participants in cardiopulmonary and trauma resuscitations.
2. Direct one-on-one supervision and teaching with an Emergency Medicine Attending and Senior Emergency Medicine Resident.
3. Experience in diagnosis and treatment of common ailments (i.e., wound management, treatment of ankle sprains, etc.) not routinely seen during inpatient rotations.
4. Experience in performing procedures (e.g. incision and drainage, lumbar puncture, suturing wounds, placing IVs, ABG sampling, central lines, nerve blocks, etc)
5. Ability to apply splints, and manage and dress wounds appropriately.
6. Opportunities to refine ECG and X-ray interpretation skills.
7. An understanding of how emergency room operates and how to effectively utilize its resources.
8. Study of separate curriculum from that of Required Clerkship.
Course Faculty and Staff

- Everett Dougherty (Course Staff)
- Matthew Ryan MD, PhD (Director)
- Amy Smith (Course Staff)

Meeting Place and Time

Orientation: First Monday of the rotation, Gainesville Time and location TBA, the Emergency Medicine conference room. Students will be contacted via email.

Course Materials


Additional Information

Rotation Shift locations:
Shands - 15;
EMS Ride Along - 1;

Emergency Medicine Externship

EMD EXT | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the department of Emergency Medicine. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials
Emergency Medicine Independent Study
EMD IS | 4th Year Elective | Emergency Medicine | Basic / Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Emergency Medicine at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Emergency Medicine Ultrasonography
EMD E 4 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites
4th year medical student - Must be planning to match in emergency medicine

Course Description
- The mission of this rotation is to train future emergency physicians in the basics of emergency limited ultrasonography and to help them become proficient emergency
sonographers who will use and incorporate their knowledge to positively enhance patient care. We will focus on bedside echo, aorta, gallbladder, FAST, EFAST to include pneumothorax, renal, pelvic, central and peripheral venous access and soft tissue. Other studies include assessment of volume status, foreign body location, musculoskeletal, scrotal, ocular, dvt.

**Course Faculty and Staff**

- Everett Dougherty (Course Staff)
- L. Connor Nickels MD RDMS (Co-Director)
- Eike Flach MD (Co-Director)
- Amy Smith (Course Staff)

**Meeting Place and Time**

Emergency Room. Please email prior to first day and we will decide on schedule. times and meeting. These will vary as our schedules always vary.

**Course Materials**

Ma JO, Mateer JR, Blaivas M. Emergency Ultrasound. 2nd Ed. 2008

Websites - sonoguide.com

**Additional Information**

You will receive textbook on first day. You must return it on the last Friday of your 2 or 4 wk rotation.

Equipment:
3 Sonosite Turbos with 4 probes each, 2 in use in the department and 1 for educational purposes only

2 additional Sonosite Turbos available for use in trauma area, each

1 Sonosite Titan with microconvex probe

Multiple Phantoms available for teaching including pelvic, Internal jugular vascular access, other vascular access (peripheral, branched, pediatric) and foreign body models

Minimum of 50 or 80 scans, respectively, required during 2 or 4 wk rotation

Student required to save stills/video clips of all scans not performed live with Dr. Flach or Dr. Nickels for video review onto his/her own memory stick or external drive

Must complete all practicums with either Dr. Flach or Dr. Nickels

Must have a "case of the month" in which he/she researches the current literature regarding this subject and composes a short ppt presentation reviewing the case
Must scan on his/her own every week day that other assignments not made

Must complete scanning shifts with Dr. Flach or Dr. Nickels as assigned

***Important: If you are scanning alone or with other students/faculty/residents besides Dr. Nickels or Dr. Flach, you are ONLY ALLOWED to scan patients who are getting a CONFIRMATORY test DURING THEIR ED STAY which will include the area you are scanning. (for example, if the patient is getting an abdomen and pelvis ct, then you can ultrasound gallbladder, aorta, renal, pelvic, appendix, any fb/abscess/cellulites within this area only. However, if the patient is getting a gallbladder scan from radiology, then you may only scan their gallbladder.)

### Endocrinology/Diabetes Clinical Clerkship

**PED E 8 | 4th Year Elective | Pediatrics | Clinical Science**

**Prerequisites**

*4th year medical student*

**Course Description**

**Endocrinology Elective: Goals**

The goal of this elective is to allow the resident or student to acquire sufficient familiarity with common pediatric endocrine problems to deal with them intelligently at the general pediatric level including an appreciation of the range of normal variation in growth and development and when referral to a pediatric endocrinologist is indicated.

Successful completion of the elective should allow you to approach the pediatric shelf examination with confidence and meet long-term professional career goals. By completing the elective in pediatric endocrinology you should not expect to become proficient in the field. Nevertheless, by participating in the various activities of the division in the hospital, in outpatient clinics, and in diabetes summer camping and weekend retreat programs, the resident will be exposed to a diversity of pediatric endocrine problems.

In clinic you will work with diabetes educators, nutritionists, research coordinators, and members of the Psychology department who assist in difficult psychosocial cases. You are encouraged to talk to all personnel associated with the multiple aspects of our clinical and research practice to learn more about pediatric endocrinology. You will be expected to interact courteously and professionally with all team members (professionalism, communication).

In order to ensure that all residents have adequate exposure to all aspects of pediatric endocrinology, residents or students attending diabetes camp (July or August) will be asked to separate their rotation into 2 week blocks such that they will have 2 weeks of the rotation
during a non-camp month. We will work with you as well as the chief residents and medical school to coordinate your rotation for the best possible educational experience.

The Division of Pediatric Endocrinology has produced a detailed curriculum which will introduce you to the field of pediatric endocrinology. You will be expected to read the curriculum and engage in further reading/literature searches as needed for patient care and to satisfy your curiosity.

You will be given a copy of Styne's Pediatric Endocrinology to use as your primary reading source during the rotation. This must be returned before you complete the rotation. You are strongly encouraged to read this brief review of pediatric endocrinology in its entirety during your rotation. (PBL, medical knowledge, professionalism).

A. Specific Objectives
Residents and students taking this elective will be expected to attain the necessary skills to manage common pediatric endocrine problems. The endocrine syllabus has been divided into three categories in which different degrees of expertise are expected at the termination of the rotation. These are: Highly competent, i.e. the resident should acquire detailed knowledge of the topic and be able to diagnose and manage most patients with this condition and recognize those requiring referral for definitive diagnosis and treatment. Competent, i.e. the student should acquire general knowledge of the condition and be able to diagnose and treat with consultative help. Aware, i.e. the resident or student should be aware of the condition but should refer the patient to the subspecialty service for evaluation and management.

1. Highly Competent
   Short stature
   Failure to thrive
   Obesity
   Puberty-normal variations
   Adrenarche
   Thelarche
   Gynecomastia
   Delayed puberty
   Nutritional rickets

2. Competent
   Childhood goiter
   Congenital hypothyroidism
   Acquired hypothyroidism
   Precocious puberty
   Cryptorchidism
   Turner syndrome
   Klinefelter syndrome

3. Aware
   Diabetes mellitus in children
Education of the family of a newly diagnosed patient
Outpatient management
Diabetic ketoacidosis
Complications of diabetes
Adrenal insufficiency
Congenital adrenal hyperplasia
Hypoglycemia
Cushing syndrome
Growth hormone deficiency and therapy for non-GH deficiency states
Thyroid nodules, carcinoma
Disorders of the adrenal medulla
Adrenal and gonadal tumors
Endocrine hypertension
Ambiguous genitalia
Epidemiology, etiology, and prevention of autoimmune endocrinopathies
Disorders of calcium, phosphate, and Vitamin D (other than nutritional rickets)
Parathyroid deficiency states
Hyperparathyroidism
Metabolic bone disease
Neonatal calcium and phosphate disorders
Disorders of water balance
Diabetes insipidus (central, nephrogenic)
SIADH
Hyperlipidemia

B. Specific Learning Experiences

1. Inpatient Service
You will be expected to follow patients on the inpatient and consult services. Student should pre-round on inpatients and consults so that rounds flow smoothly and there is time for teaching. Students are expected to be on time for rounds. Students are expected to present their patients accurately and concisely. Students are expected to read about their patients and participate actively in rounds. The attending on service will coordinate with the resident and the on service fellow how inpatients and consults will be assigned. (professionalism, practice based learning, medical knowledge, patient skills).

2. Outpatient Clinics
Clinic experiences are available all day Monday, Tuesday afternoon, all day Wednesday, and Friday morning (see Schedule below). Students will be expected to be on time for clinics. Clinic attendance will be the primary focus of the elective as the majority of pediatric endocrinology involves outpatient work-up. Students will be working under the direction of an Attending Physician. Patients will be put into rooms by the Nurse. Take this time to review
the chart. Students should refrain from discussing the patient or reviewing the chart in any
general area. Make sure that the door is closed in the Clinic Conference Room when
patients are being discussed. (PBL, medical knowledge, professionalism)

Patients should be seen promptly and courteously. Residents will identify themselves to the
patient, obtain the history and perform the physical examination, and present to one of the
clinic Attendings who will review the history and physical findings with the patient/patient’s
family. Residents are expected to dictate all Endocrine patients. Students will not be required
to dictate. Residents are expected to dictate all new Diabetes patients. Residents and
students should fill out a clinic note on returning Diabetes patients, but do not need to dictate
them. Please dictate/write up charts promptly- at the end of the day at the latest
(professionalism, PBL, patient skills).

3. Nutrition
In the first week of the rotation, residents should schedule a session with our nutritionist to
discuss the nutritional aspects of Diabetes and Obesity with a focus on carbohydrate
counting and low fat diets (medical knowledge).

4. Diabetes Education
In the first week of the rotation, residents should schedule a session with one of the C.D.E.’s
to discuss practical aspects of diabetes management. Attending the education session for a
newly diagnosed diabetes patient is a priority and will be encouraged in lieu of attending
clinic. This session should include discussions on the various types of meters, insulin
delivery devices, etc. (medical knowledge).

5. Referrals to the Endocrine Service
Every Tuesday morning, residents will review with the attending the previous week’s referrals
to the endocrine service. Residents will be expected to make recommendations as to
whether/how quickly the new referrals should be seen based on a review of the chart and
reading (PBL, medical knowledge).

6. Fellow’s Journal club
Residents should attend the monthly fellows’ journal club (Tuesday noon to 1:30PM).
Residents will be expected to have read the articles assigned by the attending (medical
knowledge, PBL).

7. Fellow’s Core Conference
Students and Residents are expected to attend the weekly Core Conferences (Thursday
noon to 1:30) where a didactic lecture will be given by a fellow or attending related to an
important topic in pediatric endocrinology. We recognize the potential conflict with the Core
lecture series of the Residency Program, so the decision on which lecture to attend will
depend on the lecture topic and the interests of the resident.

8. Student Pediatric Endocrine Presentation
The last Thursday of the rotation, students are expected to present a 30 minute review of a
topic which was of interest during the rotation. The presentation should include a short literature review of the topic (PBL, medical knowledge).

9. Endocrine Testing
Early in the rotation, residents should acquire a familiarity with provocative hormone testing by observing/assisting with a test. These are usually scheduled for Monday and Friday mornings during Endocrine Clinic (PBL, patient skills, medical knowledge).

10. On Call
Residents/Students will be expected to be on call an average of every fourth night during the rotation. Call will be from home. Residents will not directly get phone calls from patients or physicians. These will go to the fellow/attending on call. Residents/students will be notified if the fellow/attending has to go to the ER/hospital and will be expected to meet the fellow/attending and participate in the evaluation and treatment of the patient. If the resident is sleep deprived from having had to come to the hospital, she/he should notify the attending by 8 AM so they can be relieved of their duties for the day.

Students will be evaluated by all pediatric endocrine attendings with whom they have had contact and with the Division nurses/nutritionists with whom they have worked.

C. Weekly Schedule
These are guidelines and flexibility is possible within the schedule

Monday
- 7:30 AM In-patient rounds
- 8:00 AM Endocrine clinic
- Noon 1st and 3rd Monday Endocrine conference for in-patient resident team (44 conference room)
- 1:00 PM Diabetes clinic

Tuesday
- 8:00 AM M morning report followed by in-patient rounds
- 8:30 AM Laboratory follow-up/inpatient rounds
- 12:00 Journal Club (once per month)
- 1:00 PM Obesity/lipid clinic
- 1:00 PM (1st & 3d Tues) diabetes clinic

Wednesday
- 8:00 AM Diabetes clinic
- 1:00 PM Diabetes clinic- every other week

Thursday
- 8:00 AM Morning report
- 8:30 AM In-patient rounds
- 10:00 AM Teaching conference
- 12 noon Core conference
Friday
- 7:30 AM inpatient rounds
- 8:00 AM Grand Rounds
- 9:00 AM endocrine clinic

Outreach clinic: Daytona Beach by telemedicine every other week, with annual visit for 2 days

We welcome you to our Department and hope to make this a fun and instructive month for you. Please feel free to approach any of us with questions, concerns or suggestions.

**Course Faculty and Staff**

- Elizabeth Fudge MD (Director)
- Meghan Lopez (Course Staff)

**Meeting Place and Time**

Pediatric Subspecialty Clinic at Medical Plaza, 0830 or Pediatric morning report at 0800. An e-mail will be sent to you the Thursday prior to your first day with instructions for the first day of clinic.

**Course Materials**

1. Core curriculum presentations and associated key articles are available online
   <Y:\Users\ENDO\Pediatric Endocrine Core Lectures>
2. Textbooks in pediatric endocrinology are available in faculty offices and you will be provided a pediatric endocrinology review book to use during the rotation

**Additional Information**

Students on endocrinology/diabetes during the months of July and August will participate in one to two weeks at Florida’s Camp for Children and Youth With Diabetes, where they have a unique opportunity to appreciate the full range of the challenge of living with diabetes in a non-clinical setting.

2015 camp dates:
Winona 1 (ages 12-14), including Orientation - 7/16 - 7/26
Winona 2 (ages 9-12), including Orientation - 7/30 - 8/8

Students participating during October and March may attend weekends for teens (October) and families of children with diabetes (March).

**Family Medicine Inpatient Elective**

CM E 1 | 4th Year Elective | Community Health and Family Medicine | Clinical Science
**Prerequisites**

Fourth Year Medical Student - UF medical students, must have completed a senior student Sub-I prior to participating in this elective.

Student must have prior approval for the period in which they would like to rotate through this elective. Please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main for approval.

**Course Description**

COURSE PREREQUISITES: Fourth Year Medical Student

COURSE GOALS: The students will serve as acting interns under supervision of a supervising resident and attending physician from the Department of Community Health and Family Medicine. In the rotation, the externs will develop assessment and management skills needed for the care of general medical problems through bedside teaching, didactic lectures and academic conferences.

**Course Faculty and Staff**

- Kimberly K Zinkel (Course Staff)
- Tina Engstrom (Course Staff)
- Karen L. Hall MD (Director)

**Meeting Place and Time**

Prior to beginning the rotation, please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main, to get the time and location as well as the name of the Senior Resident when beginning rotation.

**Course Materials**

No special equipment.

**Additional Information**

Student must have prior approval for the period in which they would like to rotate through this elective. Please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main for approval.

**Financial, Business, and Health Systems Aspects of Medicine**

CM E 29 | 4th Year Elective | Community Health and Family Medicine | Basic Science

**Prerequisites**

Prior approval from course director to schedule elective.
Course Description

COURSE REQUIREMENTS:
Advance preparation, attendance and active participation in seminar type course sessions
Course project will be required.

NOTE: Please contact Dr. Moseley with any questions regarding these requirements, 273-5150.

Course Faculty and Staff

- William L Allen JD (Director)
- Ray E Moseley PhD (Other Faculty)
- Bernie Amaro (Course Staff)

Meeting Place and Time

March 3 through March 28 Monday through Friday 8:30am - 12:30pm room: TBD

Course Materials

Various articles, excerpted readings, videos, and websites

Fixing Healthcare Delivery

MED E 35 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

UF COM 3rd or 4th year student. Should have had at least one clinical elective before taking the course.

Course Description

Upon graduating from medical school you will become interns and residents, and in this new role you will be delivering patient care in a health system. Some of you will be lucky enough to work in efficient, safe, and effective systems, while others will encounter systems that increase of likelihood of errors and will require you to devote longer hours to complete your work. In Fixing Healthcare Delivery you will be provided with a framework to understand the systems you are working in and the tools to improve them. Preventable errors are now the 3rd leading cause of death in the U.S. (200-400 million deaths per year). By applying manufacturing principles you be able to create effective workflow maps (value streams) and to recognize and reduce waste. By applying the knowledge your acquired while participating in team sports you will become an effective team leader by interacting interdependently with all members of the healthcare team (patients, nurses, case managers, pharmacists as well as fellow physicians and students). You will acquire the fundamental tools to identify and
correct medical mistakes including root cause analysis (RCA), fish bone diagrams, driver diagrams, Plan-Do-Study-Act cycles, and run charts. You will develop the skills to become a leader who can bring about change, and finally you will be introduced to the organizing methods used by effective politicians and revolutionaries to encourage others to help create a revolution in healthcare delivery. Each of 8 learning modules will consist of 4-5 short videos (7-15 minutes) followed by 10 multiple-choice questions. Upon completing 1-2 modules the students will participate in a 1-hour discussion session 3-4 days per week led by Dr. Fred Southwick (Professor of Medicine) and Chris Giordano (Assistant Professor of Anesthesiology). Students will problem solve in class and discuss their strategies for changing the status quo. In person class attendance is encouraged, but participation can be by Skype, or Go-to-Meeting to adapt to each student's travel needs. One to two times were week students will attend patient quality rounds with Dr. Southwick and Kelly Jacobitz, RN on North Tower 64 Medical Floor. These rounds expose students to the real life problems our patients face each day. In addition to class discussions each student will apply their learning to creating a self-improvement project consisting of several PDSA cycles. And as their final project each student will propose a quality improvement campaign that they can continue during their residency. These projects will allow students to actively improve patient care in our system and to directly apply their knowledge of systems and quality improvement. This is a 2 week, 2 credit course Learning outcomes; the student will be able to: - Explain the power of manufacturing systems and athletic principles to improve the quality, safety and efficiency of health care delivery - Organize and work effectively within multidisciplinary medical teams. - Explain how medical errors occur, and acquire the skills to determine the root causes of a specific error. - Use Plan-Do-Study-Act cycles to create new operating procedures to improve efficiency and prevent errors. - Describe the characteristics of an effective leader and lead adaptive changes within our health systems - Apply effective organizing strategies and tactics to bring about cultural changes within our health systems that will encourage the adoption of quality measures and a renewed focus on our patients.

Course Faculty and Staff

- Frederick S Southwick MD (Director)
- Christopher Giordano MD (Other Faculty)

Meeting Place and Time

TBA - email Dr. Southwick southf@epi.ufl.edu

Course Materials

Book - Critically Ill: A 5-point plan to cure health care delivery by Frederick Southwick, M.D with Donna Treloar R.N., PhD Southwick Press (342 pages)
On line videos through Coursera "Fixing Healthcare Delivery" On-Demand offering https://www.coursera.org/course/fixinghealthcare

Additional Information
This course is a must for students going into Internal Medicine, Pediatrics, Surgery, Obstetrics and Gynecology, and Anesthesia.

**Flexible Psychiatry**

**PSY E 2 | 4th Year Elective | Psychiatry | Clinical Science**

**Prerequisites**

Satisfactory completion of third year clerkship in Psychiatry. Note, students from outside UF COM must get prior approval from Course Director.

**Course Description**

Senior medical students wishing to receive additional training in a setting that does not meet the parameters described under other 4th year Psychiatry Elective offerings may chose this course. Examples include experience on the inpatient adult psychiatry services at Vista (including the Florida Recovery Center), the VA medical center inpatient and consultation services, the outpatient facility in Vero Beach, Jacksonville community psychiatry services, and others. It is preferable for students to complete all 4 weeks in the same location.

**Course Faculty and Staff**

- Jacqueline Hobbs MD, PhD (Director)
- Robert N Averbuch MD (Other Faculty)
- Terry Lemesh (Course Staff)
- Martha Brown MD (Co-Director)

**Meeting Place and Time**

To be arranged depending on the specific site/experience chosen. Contact Terry Lemesh tjlemesh@ufl.edu / 352-594-1870. Students must make arrangements with Dr. Martha Brown, Dr. Sarah Fayad or Dr. Jacqueline Hobbs about their specific experience/rotation.

**Course Materials**

Vary depending on the experience chosen.

**Additional Information**

Please note, those wishing to complete any portion of this elective with a Child/Adolescent Psychiatry experience and/or Consult/Emergency Psychiatry rotation should contact Dr. Mariam Rahmani and register for the Child and Adolescent Psychiatry Elective instead.
Forensic Psychiatry

Course Description

Forensic psychiatry is a medical subspecialty that includes research and clinical practice in the many areas in which psychiatry is applied to legal issues. While some forensic psychiatrists may specialize exclusively in legal issues, almost all physicians may, at some point, have to work within one of the many areas in which the medical system and legal system overlap. Students will be exposed to various legal issues during their rotation. These may include:

- Criminal responsibility
- Competence, civil and criminal
- Child custody and visitation
- Psychic injury
- Mental disability
- Malpractice

The student will have the opportunity to work closely with a team of physicians as they perform evaluations and prepare a case for trial. Depending on court scheduling, students may have the opportunity to accompany the physicians as they give expert testimony in actual depositions and trials.

COURSE GOALS:

1. Understand basic principles of interaction between psychiatry and the law.
2. Appreciate how psychopathology affects one's legal status in a number of issues.
3. Attend civil and criminal depositions and trials with Dr. Werner and other forensic faculty.

Course Faculty and Staff

- Brian Cooke MD (Other Faculty)
- Terry Lemesh (Course Staff)
- Almari Ginory DO (Director)
- Susan Nobles (Course Staff)
- Gary Reisfield MD (Other Faculty)
- Natalie Snodgrass MD (Other Faculty)

Meeting Place and Time

9:00 a.m. - 5:00 p.m. Monday through Friday. Students will attend evaluations, seminars and some correctional rotations with Forensic Residents. Please report to Room 3112 at the UF Springhill Medical Office Building; 4037 NW 86th Terrace the first day.

Course Materials
Forensic Psychiatry residency seminar materials, seminars, patients at Lowell Correctional Institution and Reception Medical Center.

Additional Information
For more information please contact Susan Nobles at 352-265-3284 or snobles@ufl.edu
Clearance for entering correctional facilities will need to be obtained prior to your rotation, please contact Susan Nobles at least 2 weeks prior to your rotation so she can coordinate.

General Surgery - Jacksonville
SUR E 1J | 4th Year Elective | Surgery | Clinical Science

Prerequisites
Completion of third year core rotation in General Surgery

Course Description
The student will function as a first year resident under the supervision of the attending and senior resident staff to see and follow assigned patients, participate in consultations and bedside procedures and wound care, and be in the OR for assistance at a variety of procedures.

Course Faculty and Staff
- Andrew Kerwin MD (Other Faculty)
- James W Dennis MD (Co-Director)
- Frank J Genuardi MD, MPH (Other Faculty)
- Joseph J Tepas III MD (Other Faculty)
- Ziad Awad MD (Other Faculty)
- Michael Nussbaum MD (Director)
- Laila Samiian MD (Other Faculty)
- Bestoun Ahmed MD (Other Faculty)
- Jin Ra (Other Faculty)
- J. Bracken Burns DO (Other Faculty)
- Eugenia Smith (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
8:30 AM: Student Coordinator's (Teresa Pitchford and Eugenia Smith) office; 3rd floor Faculty Clinic

Course Materials
General Surgery and Organ Transplantation (Surgery IV)
SUR E 3 | 4th Year Elective | Surgery | Clinical Science

Course Description
COURSE GOALS: Introduction to scientific principles and clinical measures of dealing with general surgical problems with special focus on surgical diseases of the liver and bile ducts. The service focuses mainly on surgery of the liver and neoplasms of the pancreas and on liver, kidney and pancreas transplantation. It is our intent that the students occupy a position of responsibility commensurate with their ability. They will participate in patient evaluations in the clinics, patient care on the surgical wards, in the operating room, and post-operative care on the wards and in the clinic. They will also be expected to come to conferences during the week.

Course Faculty and Staff
- Michele Silver (Course Staff)
- Kenneth Andreoni MD (Other Faculty)

Meeting Place and Time
Contact the Surgery Education Office at 265-0916 several days before the start of the rotation for reporting instructions.

Course Materials
Textbooks and selective journal publications.

Additional Information
There is also an opportunity to participate in clinical research that is ongoing in the division.

Global Health Elective
EMD E 2J | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites
UF COM 4th year student - Completion of required rotations in the third year of medical school.

Course Description
The purpose of the Global Health Experience elective is to give senior medical students opportunities to: a) diagnose and treat patients in an overseas, low-resource setting; b) learn about the health care and public health systems overseas settings and/or c) to participate in a service-learning or applied research project in a low resource setting or related to global health. Prior to travel the student will 1) develop a learning plan with a UF faculty mentor and a mentor from the designated site. The elective can be constructed as a 2, 4, 8 or 12 week elective. The student can select from a number of existing sites that have exchange agreements with the UF College of Medicine in the Dominican Republic, Ecuador, Peru, China and Hong Kong and other locations. Please go to www.globalhealth.med.ufl.edu/global-health-electives/ for a more detailed description of some of the locations, potential clinical or public health-oriented experiences offered, the local faculty/mentors, in-country arrangements, etc.

Alternatively, a student can propose to go to a different site/country from those listed above. In order to gain approval for this option the medical student must do the following: 1) identify an appropriate mentor at UF or an in-country mentor that is working at that site; 2) develop specific learning objectives; and 3) identify and safe and secure housing; 4) present the opportunity to Dr. DeVos. Depending on the specific location selected there may be a language proficiency requirement.

**Course Faculty and Staff**

- Shawn Murphy (Course Staff)
- Elizabeth DeVos MD (Director)
- James Grigg MD (Co-Director)

**Meeting Place and Time**

The student signing up for this elective will need to meet with either Dr. DeVos or Grigg to review the goals and learning objectives, travel arrangements, housing, in-country supervision/mentoring and pre-travel preparation.

**Course Materials**

NA

**Additional Information**

Students must be pre-approved for this rotation before they receive credit. Students that schedule this course, will be provided with a Global Health Elective Application, that must be reviewed and approved by Dr. DeVos at least 1 month prior to the start of the rotation. Students must obtain CISI travel insurance through UF International Center prior to final approval for travel. All travel is subject to UFIC policy.

**Health and the Environment**
COM E 1 | 4th Year Elective | Comec Chapman Education Center | Basic Science

Prerequisites
None

Course Description
This course will examine the variety of ways in which the environment affects health- ranging from pollutants, to public health and sanitation, to adaptation to local diet and disease regime, to the idea of a healing environment. The course will explore these ideas via a field trip, class meetings, discussion, readings, movies, lecture and some writing.

Course Faculty and Staff
- Nina Stoyan-Rosenzweig (Director)

Meeting Place and Time
TBA

Course Materials
Assigned readings will be posted on the website and will depend on student interest.

History of Medicine
CM E 23 | 4th Year Elective | Community Health and Family Medicine | Basic Science

Prerequisites
If there is only one student signed up for this course, it will be conducted as an independent study.

Course Description
COURSE GOALS: This course will provide:
1. An introduction to the general history of American medicine.
2. A special focus on the social history of American Medicine, including background for current reform efforts.
3. Opportunity to pursue special topics in the history of American medicine in greater detail, including those of special student interest or related to chosen field of specialization.

Course Faculty and Staff
- William L Allen JD (Co-Director)
- Nina Stoyan-Rosenzweig (Co-Director)
- Cheri Knecht (Course Staff)
Meeting Place and Time

To be Announced.

Course Materials

Texts: Major Problems in the History of American Medicine and Public Health and/or The Social History of American Medicine, as well as relevant websites, videos or films, and articles.

Infectious Disease Consult Service - Jacksonville

MED E 7J | 4th Year Elective | Internal Medicine | Clinical Science

Course Description

The Infectious Diseases Consult Service provides students with an introduction to this challenging and expanding area of medicine. Direct clinical experience is provided in hospital inpatient consultation, outpatient consultation, care of patients with HIV and AIDS, and hospital epidemiology. Students function as members of the consult team, evaluating and participating in the care of patients on all adult services, including surgery, obstetrics and gynecology, and critical care. The syndrome approach to the diagnosis of infectious diseases is emphasized, and students participate in didactic sessions which review common infectious disease syndromes and topics.

Course Faculty and Staff

- Michael Sands MD (Other Faculty)
- Frank J Genuardi MD, MPH (Other Faculty)
- Nilmarie Guzman MD (Director)
- Dani Brown (Course Staff)

Meeting Place and Time

Please contact Dr. Nilmarie Guzman pager # 904-393-6381 before rotation begins for meeting time and place. ID fellows should be contacted as well. For any questions please call our program assistant Nancy Culpepper at 904-244-7514

Course Materials

Handouts on the syndrome approach to infectious diseases consultation
Infectious Diseases
MED E 9 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
4th Year Medical Student

Course Description
Students will participate on the inpatient consultation service to provide first-hand patient contact and apply their knowledge. There is an option to rotate at Shands or the VA Hospital (limit of 2 students per facility). There will be a weekly ID lecture as well as weekly patient management conference where challenging infectious disease cases will be discussed. Students will be allowed to leave at 5 pm on the weekdays. There is no weekend call for students.

Course Faculty and Staff
- Christie Little (Course Staff)
- Frederick S Southwick MD (Director)
- Kartikeya Cherabuddi MD (Co-Director)

Meeting Place and Time
Academic Research Building (ARB)
Rm. R2-124, 9:00 am (first day)
Office: 352-294-5481

Course Materials
There is no required course material for this elective.

Additional Information
"Infectious Diseases in 30 days", McGraw-Hill, is written by our Fellowship Program Director, Dr. Frederick Southwick. This book can be purchased at the UF Bookstore.

Interdisciplinary Approach to the Patient's Story
COM E 4 | 4th Year Elective | Comec Chapman Education Center | Basic Science

Prerequisites
UF 4th year medical student
One semester of narrative medicine preferred but not required.
**Course Description**

This elective teams 4th year medical students with English Department graduate students and Anthropology Department graduate students in collaborative study of narrative and how narrative analysis can be used to treat chronic conditions—such as obesity—that have large psychosocial and behavioral components. Through this elective students will learn how to apply narrative study to a better understanding of the psychosocial components of illness, and how to use that understanding to promote better health.

**Course Faculty and Staff**

- Nina Stoyan-Rosenzweig (Director)

**Meeting Place and Time**

TBA

**Course Materials**

Students will be expected to read Rita Charon, Honoring the Stories of Illness; Don Kulick, Fat: the Anthropology of an Obsession; Lewis Mehl-Madrona, Narrative Medicine: The use of story and history in the healing process.

**Interdisciplinary Service - Learning in Action**

MED E 27 | 4th Year Elective | Internal Medicine | Basic Science

**Prerequisites**

UF COM 4th year medical student

**Course Description**

The Interdisciplinary Service-Learning In Action course is designed to promote the health and overall well-being of medically underserved and low-income individuals through service provision; cooperative learning; and collective action among community and professional students; volunteers; and participants. Students will rotate among local primary care and social services clinical sites that serve the target population offering medical care/screening; health education; social services information; and will help with provisions for delivery to the homeless. Locations for service delivery may include the GCM Clinic; Migrant Programs; Eastside Community Practice; Equal Access clinic; Helping Hands Clinic; Acorn Clinic; We Care; and the Home Van project. Students will gain a "perspectives workout" to help them to be more aware and open to various perspectives; including gender; culture; class; ethnicity; racial or religious identity; age; professional background...each helps to shape a person’s experience of the world.
Course Faculty and Staff

- Gina Murray (Director)

Meeting Place and Time

Mondays 9:00 am to 10:00 am /Program for Interdisciplinary Education Health Science Center Room# H-5

Course Materials


Internal Medicine Consult Service

MED E 24 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Successful completion of the Internal Medicine MS-3 Clerkship

Course Description

COURSE GOALS:
Learn how to perform effective, evidence-based internal medicine consultation.
Gain practical experience in the evaluation and management of a variety of common medical problems such as: anemia, Leukocytosis, thrombocytopenia, fever, dyspnea, chest pain, edema, electrolyte imbalances, oliguria, abdominal pain, delirium, and jaundice.
Learn how to perform a preoperative medical evaluation in surgical patients.
Learn how to communicate effectively and establish professional relationships as a consultant with patients, families, nursing staff and medical colleagues from non-internal medicine services.
Recognize appropriate indications and assist with transfer of patients to appropriate internal medicine inpatient services when warranted.

Course Faculty and Staff

- Nila Radhakrishnan MD (Director)
- Mallory Billings (Course Staff)

Meeting Place and Time
Shands North Tower
Call 352-294-8278 for specific details.

Course Materials

Internal Medicine Consultation website:
http://internal.medicine.ufl.edu/education/internalmedicineconsultservice/
This contains course syllabus, all required readings and reference materials

Additional Information

Please email Mallory Billings at mallory.billings@medicine.ufl.edu TWO weeks prior to your rotation.

Internship 101

OBG E 7 | 4th Year Required | Obstetrics and Gynecology | Basic Science

Prerequisites

This course is only open to 4th year UF students in the final month of the academic year.

Course Description

This course will review common clinical problems encountered when a resident is on call in the hospital, such as cardiopulmonary arrest, septic shock, fever, drug overdose, psychiatric and neurologic emergencies, renal failure, and antibiotic selection. The course will also discuss medical-legal issues, stress and time management, financial affairs, interactions with difficult patients, pre-operative and post-discharge counseling, and techniques for effective teaching (lectures, small group seminars, one-on-one instruction). All students will participate in a mini-“boot camp” presented by faculty members in their chosen field of specialization. Prior to the start of Internship 101, all students will become re-certified in Basic Cardiac Life Support and newly-certified in Advanced Cardiac Life Support.

Course Faculty and Staff

- Patrick Duff MD (Director)

Meeting Place and Time

Internship 101
First Monday of period 13 at 0800 in the North Learning Studio of the HMEB.

Course Materials

Syllabus is provided on line.
Interview Month
INT | 4th Year Elective | Internal Medicine | N/A

Course Description
This selection should be scheduled during the month in which students plan to complete the bulk of their residency interviews. The authorized months for interview are: October, November, December or January.

Course Faculty and Staff
No faculty or staff.

Meeting Place and Time
NA

Intro. to Radiation Oncology
RON E 1 | 4th Year Elective | Radiation Oncology | Clinical Science

Prerequisites
The student should have completed most, if not all, of their third year clinical rotations.

Course Description
COURSE GOALS: The principle objective of this course is to provide the student with an intimate exposure to the examination, diagnosis and treatment of the cancer patient. Emphasis is placed on methods of physical diagnosis and include detailed instruction in head and neck examination techniques, diagnostic maneuvers in gynecological examination and workup of patients with lymphoreticular malignancies. In general, the program is structured to allow the student to concentrate his/her effort in areas that compliment career plans. This course is a tremendous opportunity for a medical student to evaluate and examine a large number and variety of cancer patients. Any student who is interested in a specialty which will interact with radiation oncologists is encouraged to use this opportunity to learn about the specialty. Approximately 250 cancer patients are seen each week in the department. The University of Florida Proton Therapy Institute in Jacksonville, FL is an excellent opportunity for the student to learn about Proton therapy. This is an off-site clinic-an extension of the U.F. Gainesville Rad/Onc clinic.

Course Faculty and Staff
- Robert J Amdur MD (Director)
• Nora Martin (Course Staff)

Meeting Place and Time
Shands Cancer Center - Department of Radiation Oncology, Robert J. Amdur, M.D., Chairman & Program

Course Materials
Instruction takes place via daily new patients consultations, follow up clinics, treatment simulations, tumor conferences, implant procedures, individual faculty discussion sessions and departmental teaching conferences. Individual research projects are available and optional.

Additional Information
The University of Florida Proton Therapy Institute (UFPTI) is located in Jacksonville, FL, the student will be responsible for their own transportation & lodging if they need to stay overnight.

Introduction to Anatomical and Clinical Pathology - Jacksonville
PATH E 2J | 4th Year Elective | Pathology | Clinical Science

Prerequisites
4th year medical student

Course Description
The purpose of this course is to provide an overview of the process involved in providing pathology and laboratory services and the impact of these services have on patient care. Students will participate in signing out the cases in pathology and laboratory medicine and will become familiar with the pathogenesis of various disease process. Students will participate in Departmental educational activities and will interact with laboratory personnel, residents, fellows, and the faculty of the Department.

Course Faculty and Staff

• Roger L Bertholf PhD (Other Faculty)
• Yvette S. McCarter PhD (Other Faculty)
• Carmela B. Monteiro MD (Other Faculty)
• Rebel Jones (Course Staff)
• Raafat Makary MD, PhD (Other Faculty)
• Agnes Aysola MD (Other Faculty)
• Brad Wang MD (Other Faculty)
Meeting Place and Time
Department of Pathology; Clinical Center; First Floor; East Expansion Wing - Shands
Jacksonville; 8:30 AM

Course Materials
Study Sets, Medical Books, and Medical Journals

Introduction to EMS, Prehospital Care and Shands Cair
EMD E 2 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites
Satisfactory completion of third year curriculum.

Course Description
COURSE GOALS: At the end of this rotation, the student will:
1. Gain an appreciation for the role of prehospital care in the management of the critically ill or injured patient.
2. Be able to assess the appropriateness of a patient for transport by ground or air.
3. Understand, through active participation in prehospital care operations, the unique challenges of packaging, monitoring, and performing patient care in the prehospital environment.
4. Know how to access emergency medical service systems and explain dispatch principles used by these systems.
5. Gain an appreciation of the needs for prehospital education, quality assurance and research.
6. Understand integrated trauma management.

During these four weeks, you will be exposed to all aspects of emergency medical services (EMS). Your experience will include flying with Shands Cair (October through May Only - must not be taller than 6'2" and under 200 lbs.), riding on paramedic units, participating in quality assurance activities, paramedic education, and prehospital protocol assessment. You will discover the satisfaction which comes in assisting in the out-of-hospital management of
the critically ill or injured patient and in knowing that your efforts can benefit the health of a community, not just an individual.

For more information about the rotation please visit our web site, http://emergency.med.ufl.edu/education/rotations/ems-student-rotation/.

**Course Faculty and Staff**

- Everett Dougherty (Course Staff)
- Christine VanDillen MD (Director)
- Amy Smith (Course Staff)

**Meeting Place and Time**

By arrangement with course sponsor.

**Course Materials**

Handouts and training materials are provided by the course sponsor and sponsoring agencies. Prehospital patients come from all sections of the county and all segments of society, and will be seen in the field as students ride with paramedics. The only common thread binding these patients is their need for assistance.

**Additional Information**

NOTE - This course will be offered only by specific arrangement with course director/co-director.

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**Introduction to Integrative Medicine**

**MED E 37 | 4th Year Elective | Internal Medicine | Clinical Science**

**Prerequisites**

4th year medical student
Primary care clerkship (MS3) in either Family Medicine or Internal Medicine

**Course Description**

This 2-week elective is designed to provide students with an evidence-based and experiential understanding of integrative medicine. The students will interact with faculty members and community-based complementary and alternative (CAM) professionals during sessions of didactic instruction, small group discussion, observation in various practice settings, and field visits. A series of one-hour evidence-based presentations on five topics, including a review of the literature is included. Following each session, an assigned student presents a critique of that subject’s best available randomized controlled trial. Selected topics will be chosen based on a list of complementary therapies being investigated by the National
Center Complementary and Alternative Medicine. These will include acupuncture, herbal medicine, nutritional supplements, Tai Chi/yoga/ similar modalities, meditation, and hypnosis.

The students will receive an extensive syllabus that includes a list of readings, websites, educational goals, introductory materials on the topics provided, and a schedule of activities for the two-week course. As a culminating activity, the each student will prepare a case presentation and a treatment plan for a chosen disease process. One case will be chosen for presentation to the faculty and students participating in the elective. Each student will also submit brief reflective writing entries based on their experiences in their practice settings. These entries will be evaluated based by the course director using currently used rubrics for reflective writing assessments.

Course Faculty and Staff

- Irene M. Estores MD (Director)
- David B Feller MD (Other Faculty)
- Eric I Rosenberg MD, MSPH (Other Faculty)
- Ku-lang Chang MD (Other Faculty)
- Adrian Ramos (Course Staff)

Meeting Place and Time

Department of Medicine Library on 4th Floor at 8:00 on day 1 of the rotation.

Course Materials

Recommended reading:
1. Rakel D. Integrative Medicine, 2nd ed. Saunders, Philadelphia, Pa 2007

Journal Articles for discussion: (other articles can be suggested by E-B faculty member participating in elective)
4. Gaziano JM, Glynn RJ, Christen WG, Kurth T, Belanger C, MacFadyen J, Babes V,


Suggested Websites:
http://lpi.oregonstate.edu (Linus Pauling Institute at Oregon State University)
http://www.ummm.edu/altmed (University of Maryland Medical Center)
http://www.mskcc.org (Memorial Sloan-Kettering Cancer Center)
http://nccam.nih.gov (National Center for Complementary and Alternative Medicine)
http://www.fammed.wisc.edu/integrative (University of Wisconsin Madison Integrative Medicine Program)

Additional Information

During the first week of the elective, the students participate in didactic sessions, group discussion and experiential learning. During the second week, they will be assigned in pairs to different practice settings either at UFHealth or in the community as described in the schedule that follows:

*Students will be assigned in groups of two to one participating practitioner and will be with that practitioner for four days of that week. The practitioners and practice settings they will observe include integrative medicine, acupuncture, primary care and spinal manipulative therapies. These UF faculty and community-based practitioners have been identified and upon approval by UF COM will be invited to participate as preceptors for this elective.

**Students will reconvene on last day of elective for presentations, which will be attended by the course directors and other students enrolled in the elective.

Leadership in Global Health

EMD E 3J | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites

Selection as a second year trip leader for the Service Learning Trips during spring break and participation during the first year (2 total).

OR

A Senior medical student who participates in two Spring service learning trips as a 2nd, 3rd, or 4th year student (2 total).

Course Description
Students will fulfill the role of trip leader, organizing the spring break Service Learning OR
A Senior medical student who participated in one service learning trip as a second year or third year and one trip as a senior student.

Course Faculty and Staff

- Shawn Murphy (Course Staff)
- Elizabeth DeVos MD (Director)
- James Grigg MD (Co-Director)

Meeting Place and Time

TBA

Course Materials

Pre-departure Manual, Service Trip Leaders Manual both located on www.globalhealth.med.ufl.edu; web-based resources

Additional Information

Students who participate as a trip leader in their 2nd year of medical school (usually selected during their first year and attend the trip as a first year - no other first years attend the trips), or students who have participated in 2 trips during their 2nd, 3rd or 4th years, will receive 2 credits for participation. The trips typically travel during Spring Break each academic year.

Students may choose to use these credits towards their senior year as 'previous credits obtained'. A max # of 2 credits can be used for previous credits (i.e., Narrative Med, Community Service, Leadership in Global Health) Only credits for participation in one of these can be used toward a student's 4th year schedule.

Learning to See: Art and Humanism in Medicine

MED E 34 | 4th Year Elective | Internal Medicine | Basic Science

Prerequisites

4th year UF medical student

Course Description

This elective is team taught by College of Medicine, Arts-in-medicine and visiting faculty, and is an intensive introduction to arts in medicine, especially the way in which improving observation skills can help foster better patient care. In addition to an overall introduction to arts in medicine and humanism in medicine, it will use trips to the Harn Museum of Art, focus
on natural history and other observation techniques, to help 4th year students improve bedside care of patients.

**Course Faculty and Staff**

- Paulette C Hahn MD (Director)
- Nina Stoyan-Rosenzweig (Co-Director)
- Robert M Lawrence MD (Co-Director)

**Meeting Place and Time**

TBA
Please e-mail Paulette Hahn, MD at hahnpc@medicine.ufl.edu

**Course Materials**

This course is offered in conjunction with the Arts in Medicine summer intensive- see http://www.arts.ufl.edu/CAHRE/summerintensive.asp
The Arts in Medicine Summer Intensive July 8-19, 2013

**Longitudinal (Four Year) Community Service Elective**

PED E 28 | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**

Although hours will be collected throughout the four years, only 4th year medical students can formally sign up for the course.

**Course Description**

Students may choose to earn either two credit hours or four credit hours for this course, depending on how many hours of community service are completed.

The requirements for earning 2 credit hours are:
1. Complete 80 hours of community service during four years of medical school; 70 of these hours MUST be completed PRIOR to the credit being assigned, i.e. prior to the period you are signed up for the elective. If you have not completed 70 hours before the beginning of the period you are signed up for the elective, you will have to drop this course and add another to complete your graduation requirements. The remaining ten hours may be completed before the end of the elective period; and 10 hours minimum must be done during the 4th year. Also, 50 hours of the 80 hours must be clinical.
(Also, see numbers 2-6 below, which must be done/applied to earn 2 credit hours.)

The requirements for earning 4 credit hours are:
1. Complete a total of 160 hours of community service during four years of medical school.
140 hours may be completed before the beginning of the 4th year. The other 20 hours must be done during the 4th year, before the end of the scheduled elective period. If you have not completed 140 hours before the beginning of the period you are signed up for the elective, you will have to drop this course and add another to complete your graduation requirements. 100 of the 160 hours must be clinical.

2. All hours must be self-reported on canvass and verified by an email from the supervisor sent to Michael Bruce - mbruce@ufl.edu

4. All volunteer hours must be verified by a licensed health professional.

5. Students from any year may begin accruing hours at any time during the four years of med school. The medical education office will track hours. However, students will not sign up for the credit course until the fourth year. Students who do not complete this course successfully will have to find another source of credits for graduation.

6. ICM required hours do not count towards the community service elective.

Accrual of community service hours:
List of approved sites/locations for clinical service hours--
1 Equal Access Clinic at Main St
Family Practice
2 EAC at Gainesville Community Ministries
3 EAC at Mobile Clinic East (Bartley Temple)
4 EAC at Mobile Clinic West (Tower Road)
5 Helping Hands Clinic
6 Rahma Mercy Clinic
7 Westside Samaritan Clinic
8 Health Fairs
9 Alachua County Health Department
10 Acorn Clinic
11 Archer Clinic
12 School-based screening and flu immunizations

Because our primary goal for the course is to provide service to residents of Alachua County, most hospital based experiences will not count toward total hours, so please be sure to clear all experiences about which you are unsure. International spring break trips will NOT count for the class of 2015 and beyond. Service is accrued on an hour for hour basis. Hours spent in administration (of Equal Access, for example) would also be counted at the discretion of the course directors.

**Course Faculty and Staff**

- Maureen A Novak MD (Director)
- Meghan Lopez (Course Staff)
Meeting Place and Time

Contact Michael Bruce - mbruce@ufl.edu

Course Materials

Assignment: Students earning either 2 or 4 credits will be expected to reflect briefly on their community outreach experiences 4 times. The 4 reflections are to be written, in the form of a REAP note, not to exceed 1.5 pages, each. Reap includes Reflection, Experience, Assessment, and Plan. Your paper should express what you learned and any thoughts or emotions you encountered and how your community service will affect your future practice. REAP notes will be submitted to Dr. Novak via email to novakma@ufl.edu.

Maternal-Fetal Medicine

OBG E 4 | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

Prerequisites

This course is open only to senior students who specifically plan to pursue a career in Obstetrics and Gynecology.

Course Description

The objectives of this course are as follows:

To diagnose and treat medical complications of pregnancy.

To perform and interpret a basic screening ultrasound examination.

To apply prenatal diagnosis tests such as serum analyte screening, CVS, amniocentesis, cordocentesis, and cell-free fetal DNA assessment.

To develop skills in interpreting antepartum fetal assessment tests such as the NST, CST, biophysical profile, and doppler velocimetry.

To critically discuss major subject areas in perinatal medicine, such as cesarean delivery, diabetes in pregnancy, and prenatal diagnosis.

To learn the names and uses of common surgical instruments.

To learn the indications for use of different suture materials.

Course Faculty and Staff

- Patrick Duff MD (Director)

Meeting Place and Time
Students should report to the Harrell Medical Education Building, Room 210 at 7:30 am on the first Monday of the rotation.

**Course Materials**

Reading assignments will be distributed prior to the start of the elective.

**Additional Information**

Students will be evaluated on the basis of their clinical performance in the High Risk Obstetrics Clinic, Prenatal Diagnosis Clinic, Labor and Delivery Suite, and in the special tutorials with the course director. There are no night-time or weekend assignments.

### McKnight Brain Institute Research

**PSY E 14 | 4th Year Elective | Psychiatry | Clinical Science**

**Prerequisites**

4th year medical student

**Course Description**

This elective will improve the student's understanding about the neuronal substrates that compromise the brain reward system. In addition, the student will have insight in the role of brain stress systems in drug withdrawal. If the IACUC requirements are met, the student can participate in rodent experiments. In our laboratory, we investigate the brain areas that mediate the negative affective state of drug withdrawal. The main models that are used are rodent intra-cranial self-stimulation and rodent drug self-administration. Current research focuses on nicotine and opioid dependence.

**Course Faculty and Staff**

- **Adrie Bruijnzeel PhD** (Director)
- **Martha Brown MD** (Co-Director)
- **Terry Lemesh** (Course Staff)

**Meeting Place and Time**

TBA

**Course Materials**

Study material will be provided at the beginning of the course by one of the course directors

**Additional Information**

For more information please contact Terry Lemesh at 594-1870 or tjlemesh@ufl.edu
Medical Spanish
PED E 27 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
4th year UF COM student

Course Faculty and Staff
- Donna M Parker MD (Director)
- Carol L Enoch (Course Staff)

Medical Student Clerkship in Emergency Critical Care
EMD E 5 | 4th Year Elective | Emergency Medicine | Clinical Science

Prerequisites
BCC 7180 Required Emergency Medicine clerkship; for externs, one month of Emergency Department

Course Description
The purpose of this course is to introduce senior Medical Student with career goals in Emergency and or Critical Care Medicine to gain significant exposure, education and experience, in Emergency Critical Care; specifically the acute assessment, and management of medical, traumatic and pediatric resuscitations. Students will be scheduled to work shifts in the Resuscitation area of the Shands UF Emergency Department and will work closely with faculty, residents and fellows in the management of the highest acuity cases that present to the ED. Students are expected to become integrated into the care team. Students will also spend significant time in the department’s simulation lab learning and perfecting critical care procedures and resuscitation skills.

Course Goals: This course is designed for the MS4 who has completed the EM requirement and has a career interest in EM. This course will provide a focused experience in Emergency Critical Care including airway management, and care of Trauma, Sepsis, Respiratory failure, Acute MI's, Strokes and other acute severely ill patients. The student will be paired with an EM resident or Critical Care fellow during shifts and be active participant in the care team in the Resuscitation module of the ED.

Course Objectives: Demonstrate the ability to rapidly assess the critically ill and injured. Obtain an AMPLE history, and perform a focused problem based examination. Demonstrate ability to perform ACLS algorithms for V-fib arrest, stable and unstable V-tach
and tachyarrhythmias, and bradycardia.
Demonstrate the ability to read ECG and interpret then above arrhythmias.
Demonstrate ability to manage respiratory distress including BiPAP, intubation, and ventilator management.
Demonstrate ability to interpret ABG
Demonstrate the ability to calculate ISS score
Demonstrate the ability to calculate APACHE II score
Demonstrate the ability to perform follow up on patients resuscitated in the ED

Teaching Methods: Assigned readings, Direct patient care, Simulation, On-line lectures and procedural video demonstrations.

Feedback: Directly from Residents, fellows and faculty during shifts. Mid-clerkship review sessions with clerkship director, program director or EM CCM faculty.

Student Portfolio: Procedure log, APACHE II and ISS scores of patients seen during shifts, Case log, Simulation performance evaluations.

Evaluation: Clinical evaluations by supervising resident, fellow and faculty; Simulation performance, End of clerkship written exam.

Competencies:
Objectives: ACGME competencies covered by each objective:
PC=Patient care, PL=Practice Based Learning, MK=Medical Knowledge, IC= Interpersonal Communication, Pr= Professionalism, SP= System Based Practice
DO=Direct Observation
Vsim=Simulation
CE=Case examples

Assessment & Treatment:
1. Demonstrate ability to rapidly perform history and physical exams in critically ill patients. (1) (PC)[DO]
2. Describe the dosages, indications and contraindications of pharmacologic interventions for shock, cardiac failure, dysrhythmias, sepsis, trauma, toxins, respiratory failure, hepatic failure, renal failure, and neurologic illnesses. (1) (PC)[DO, Vsim]
3. Demonstrate appropriate prioritization of diagnostic and therapeutic interventions in critically patients. (1) (PC, MK)[DO, Vsim]
4. Demonstrate an understanding of the appropriate use of consultants in critically ill patients. (1) (PC, MK, IC, Pr, )[DO]
5. Demonstrate an understanding of the ethical and legal principles applicable to the care of critically ill patients. (1) (PC, PL, MK, IC, Pr.)][DO, CE]
6. Demonstrate the ability to notify family of patient’s death in professional and compassionate way. (1) (PC, Pr,IC) [DO]
7. Understand the pathophysiology of hypertensive emergencies including acute pulmonary
edema, acute renal failure, stroke and encephalopathy. (1) (PC, MK, IC,) [CE, DO]
8. Understand the typical evaluation for acute mental status depression including indications for intubation. (1) (PC, MK) [CE, DO]
9. Discuss differential diagnosis of acute mental status changes. (1) (PC, MK) [DO]
10. Know and be able to discuss all toxidromes for which a specific antidote exists or which can be treated with hemodialysis. (1) (PC, MK) [CE, DO]
11. Demonstrate understanding of “Do not resuscitate” orders, advance directives, living wills and brain death criteria. (1) (PC, PL, MK, IC, Pr, SP) [CE, OD]
12. Demonstrate thorough knowledge of antibiotic selection in critically ill patients. (1) (PC, MK) [DO, CE]

Trauma:
1. Demonstrate the ability to perform the following procedures: oral endotracheal intubation, nasotracheal intubation, cricothyrotomy, tube thoracostomy. (1) (PC, MK) [DO, VP, Vsim]
2. Understand the appropriate evaluation and resuscitation for geriatric trauma patients with multiple injuries. (1) (PC, MK, IC,) [DO, CE, ]
3. Understand the different diagnostic and treatment variations in penetrating vs. blunt trauma. (1) (PC, MK) [CE, Vsim]
4. Understand the management of major trauma as outlined in ATLS. (1) (PC, MK) [CE, DO, Vsim]

Cardiac:
1. Demonstrate the ability to perform the following procedures: Transvenous cardiac pacing, External Cardiac Pacing. (1) (PC, MK) [CE, DO, Vsim]
2. Demonstrate knowledge of the various etiologies of cardiac arrest and the corresponding therapeutic approaches. (1) (PC, MK) [CE, DO]
3. Demonstrate knowledge of the factors affecting blood flow, oxygen delivery and oxygen consumption in shock and cardiac arrest. (1) (PC, MK) [CE, DO, Vsim]
4. Demonstrate ability to recognize dysrhythmias associated with cardiac arrest and knowledge of ACLS protocols for their treatment. (1) (PC, MK) [CE, DO, Vsim]
5. Understand the dosages, indications and contraindications for pharmacologic therapy during cardiac arrest and following resuscitation. (1) (MK, PC) [CE, DO, Vsim]
6. Demonstrate the ability to interpret pressure waveforms from CVP, RA, RV, PA and PCWP. (1) (PC, IC, MK) [CE, DO]
7. Understand the sensitivity and specificity of ancillary studies for life threatening chest pain presentations including EKG, chest x-ray, cardiac enzymes, and arterial blood gases. (1) (PC, MK) [CE, DO]
8. Discuss the proper management of and therapeutic options for STEMI. (1) (PC, MK) [CE, DO]
9. Demonstrate ability to safely perform internal and external defibrillation. (1) (PC, PL, MK, IC, ) [CE, DO, Vsim]
10. Describe the clinical findings of cardiogenic shock and outline therapy for cardiogenic shock. (1) (PC, MK) [CE, DO]
Resuscitation:
1. Demonstrate understanding of the Fick equation and its application in monitoring shock states. (1) (PC, MK) [CE, DO]
3. Demonstrate ability to diagnose and treat shock, sepsis, fluid and electrolyte abnormalities, cardiac failure, cardiac dysrhythmias, acute renal failure, and toxicologic emergencies. (1) (PC, MK) [CE, DO, Vsim]

Severe Sepsis:
Demonstrate the ability to perform the following procedures: Central Venous Line, Subclavian or Internal Jugular (1) (PC, MK) [PC, MK]
Demonstrate knowledge of and ability to perform Early Goal Directed Resuscitations in severe sepsis (1) (PC, MK, PL, SBP) [CE, DO, Vsim]

Neurologic:
1. Differentiate between ischemic and hemorrhagic Stroke. (1) (PC, MK) [CE, DO]
2. Demonstrate knowledge of current recommendation for the treatment of acute ischemic Stroke, Hemorrhagic Stroke, (1) (PC, MK) [CE, DO]
3. Demonstrate ability to calculate NIH stroke score. (PC, MK, IC, SBP) [CE, DO]
4. Discuss the rationale for deciding which patients should or should not receive fibrinolytic therapy including timing, imaging, clinical course and risk-benefit analysis. (PC, MK, SBP, Pr) [CE, DO]
5. Demonstrate ability to provide patient & family with information in understandable format to permit informed consent on the decision to institute or withhold thrombolytic therapy. (1) (MK, PC, IC) [CE, DO]

Critical Care Monitoring:
1. Demonstrate the ability to perform the following procedures: Arterial line placement, central intravenous catheter placement, CV pressure monitoring of volume resuscitation. (1) (PC, MK, SBP) [DO, Vsim]
2. Demonstrate the ability to use and interpret data from ECG monitors, ECG’s, Central venous pressure monitors and other hemodynamic monitoring, arterial and central venous blood gases, pulse-oximetry, end tidal CO2 monitors and ventilators. (1) (PC, MK, IC) [CE, DO]
3. Understand current modalities of non-invasive hemodynamic monitoring including US, pulse contour and impedance cardiography. (1) (PC, MK) [CE, DO]
4. Demonstrate the ability to safely perform procedural sedation for emergent procedures, including use of narcotics, benzodiazepines, and hypnotics. (PC, MK,) [CE, DO]

Advanced Airway Management
1. Demonstrate at least 3 methods of definitive airway control when standard oral tracheal intubation fails. (1)(PC, MK) [DO, VP, Vsim]
2. Develop a written personal difficult airway algorithm on pocket card. (1)(PC, MK) [DO, VP, Vsim]
3. Be able to recite their personal difficult airway algorithm. (1)(PC, MK) [DO]
4. Demonstrate their ability to perform each procedure involved in their personal difficult
5. Demonstrate their ability to use the personal difficult airway algorithm in case scenario (1)(PC, MK) [DO, Vsim]
6. Demonstrate ability to write ventilator orders (1) (PC, MK) [DO, Vsim]
7. Demonstrate the ability to manage a patient on a ventilator and non-invasive respiratory support (CPAP BiPAP). (1) (PC, MK)[DO]
8. Demonstrate ability to manage the airway during cardiac arrest, including mouth-to-mask ventilation, bag-valve-mask ventilation, endotracheal intubation, cricothyroidotomy, and recognition of the obstructed airway. (1) (PC, MK)[DO, VP]
9. Demonstrate ability to perform nasopharyngeal and bronchoscopy. (1) (PC, PL, MK, IC, Pr, SP) [DO,VP]
10. Demonstrate ability to wean patient from ventilatory support. (1) (PC, MK) [CE,DO]

Course Faculty and Staff

- Bobby Desai MD, MEd (Co-Director)
- Everett Dougherty (Course Staff)
- Amy Smith (Course Staff)

Meeting Place and Time

Shifts will be scheduled in the Shock-Trauma unit of the Emergency Department.

Course Materials


Medical Writing Elective

MED E 38 | 4th Year Elective | Internal Medicine | N/A

Prerequisites

UF COM 4th year student - Successful completion of at least one clinical rotation or elective

Course Description

Effective communication not only benefits physicians and physicians-in-training, but could ultimately result in better care and service to the public, patients, and the medical profession. This 2 week elective is designed to provide students with an experiential understanding of medical writing. The students will interact with faculty members during didactic and interactive sessions and small group discussions. Select topics will include introduction to various types of manuscripts, medical writing and editing, writing tips, plagiarism/self-plagiarism, patient privacy, HIPPA, and information about publication/submission requests.
The students will gain a perspective on unique aspects of medical writing through hands-on experience with writing, revising, editing and navigating submission and publication processes.

This elective provides a core support group and resource for any medical student interested in writing. The small group sessions provide an opportunity for students to meet with each other, present their writing and receive feedback and assistance in preparing their manuscript for publication. Whether a medical student has a particular interest in writing a clinical vignette or a case report, this elective will offer guidance and structure to produce a major project for presentation and/or publication. Students will be able to choose to complete a clinical vignette or a case report at the end of this elective (fully edited and ready for submission).

**Course Faculty and Staff**

- **Maryam Sattari MD, MS** (Co-Director)
- **Amir Kazory MD** (Co-Director)
- **Adrian Ramos** (Course Staff)

**Meeting Place and Time**

Contact Dr. Maryam Sattari (Maryam.sattari@medicine.ufl.edu) (265-0651) or Dr. Kazory (amir.kazory@medicine.ufl.edu) two weeks prior to course for meeting time and location and schedule.

**Course Materials**

The students will receive an extensive syllabus that includes resources for reading, websites, educational goals, and a schedule of activities for the course. Handouts will also be provided as needed.

**Medicine - Clinical Independent Study**

**MED CIS | 4th Year Elective | Internal Medicine | Clinical Science**

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Medicine at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation.
This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

**Additional Information**

TBA

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**Medicine - Externship**

MED EXT | 4th Year Elective | Internal Medicine | Clinical Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Medicine. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA
**Medicine - Independent Study**

**MED IS | 4th Year Elective | Internal Medicine | Basic Science**

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Medicine at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

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**Minimally Invasive Surgery and Gastro Esophageal Surgery**

**SUR E 19 | 4th Year Elective | Surgery | Clinical Science**

**Prerequisites**

4th year student

**Course Description**

Clinical rotation on the Minimally Invasive Surgery Service

**Course Faculty and Staff**
Meeting Place and Time

Contact Michele Silver in the Surgery Education Office for reporting instructions.

Course Materials

Provided during course

MS 3; Primary Care Sports Medicine

CM E 44 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites

3rd-year medical student having completed the Third year Family Medicine and Ambulatory Care Clerkship

Course Description

This two week course is an outpatient primary care sports medicine elective. The student spend one week at the Orthopedic and Sports Medicine Institute and one week at Student Health Care Center/Family Medicine Main Street clinic. The student will spend approximately a total of 10 half days in sports medicine clinic, 2 half days in acute care at SHCC, 2 half days of training room, 2 half days in physical therapy, 2 half days of didactics/CAQ meeting, 1 half day in casting room, 1 evening in Orthocare after hours clinic. The student will interact with several sports medicine trained faculty and will have opportunities to participate in sporting event coverage in the evening time depending on availability.

Course Faculty and Staff

- Charlie Michaudet MD (Director)

Meeting Place and Time

The students will be contacted by phone or emails 1-2 weeks before the beginning of the rotation by the course director.

Course Materials

Reading prior to the course
AAFP articles below:
- Knee exam part 1:
- Knee exam part 2:

Knee exam videos:
https://www.youtube.com/watch?v=l_6raX_RW-4
Shoulder exam videos:
https://www.youtube.com/watch?v=p60X8fADTeg&list=PLFB80871E41D60C52

**MS 3; Radiology Elective for 3rd year Medical Students**

RAD E 11 | 4th Year Elective | Radiology | Clinical Science

**Prerequisites**
3rd year medical student requesting pre 4th-year experience in Radiology

**Course Description**
This is an introductory course to radiology. Rotation experiences in clinical radiology subspecialty areas will be tailored by the Course Director based on input from the student.

**Course Faculty and Staff**
- **Brenda Tieden** (Course Staff)
- **Erinn Cooke MD** (Director)

**Meeting Place and Time**
8:15AM on the 1st day of the rotation in Room G515 - ground floor, north tower, in hallway adjacent to the entrance to the S Tower tunnel.

**Course Materials**
Learning Radiology website

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**MS 3; Vacation**

VAC | 4th Year Elective | Comec Chapman Education Center | N/A

**Prerequisites**
3rd-Year medical student scheduling during 2 week break.

**Course Description**
This entry should be selected by 3rd-year medical students who choose not to schedule 4th year electives during their 2 week break between 3rd-year-clinical rotations.

**Course Faculty and Staff**

No faculty or staff.

**Meeting Place and Time**

NA

**Course Materials**

NA

**Additional Information**

NA

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**Narrative Medicine and Medical Humanities**

**COM E 2 | 4th Year Elective | Comec Chapman Education Center | Basic Science**

**Prerequisites**

None

**Course Description**

The course serves as an introduction to historical, sociological, and social ideas and topics that affect the practice of medicine. The general structure encourages students to develop ideas on reflective practice and to become reflective practitioners and learn how to apply the principles of narrative medicine to the physician-patient relationship. Narrative medicine is a field of medical humanities that privileges study of narrative as a means of developing and retaining physician empathy, of developing more effective physician-patient relationships, and of developing greater analytical and critical thinking skills. Much of the focus of narrative medicine is on understanding the patient story as a narrative, and teaching the study of narrative structure and the collection of detailed patient stories. In collection of a detailed story the physician then learns more about the patient that will be important in negotiating treatment plans, in increasing cultural competency, in maximizing psycho-social aspects of healing, and in maximizing physician self-care behaviors.

**Course Faculty and Staff**

- Nina Stoyan-Rosenzweig (Director)
- Stephen Hsu (Co-Director)
Meeting Place and Time

CG-041, 1st Tuesday, 3rd and 4th Wednesday of the month at noon for 1st and 2nd year students.

Course Materials

Readings and films for discussion group are available in the Maren Reading Room, materials needed for project

Additional Information

1st, 2nd and 4th year students may sign up to take this elective. 1st and 2nd year students are expected to do the reading, attend patient discussions, and watch the movies, and attend a minimum of 9 discussions per semester, attend three special events, and write two reflective papers. The requirements for grading are different for 4th year students, whose schedule generally means grading will be based on assigned readings and related assignments, meetings, and completion of a project.

Neonatology - Jacksonville

PED E 8J | 4th Year Elective | Pediatrics | Clinical Science

Course Description

Learning comprehensive management of ill neonates by assuming primary responsibility for their care including the history and physical examination, writing orders and arranging consultation and follow-up care.

Course Faculty and Staff

- Robert Donald Garrison MD (Director)
- Frank J Genuardi MD, MPH (Other Faculty)
- Chelsea Rountree (Course Staff)

Meeting Place and Time

Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville 32207
8 a.m. - (Student will report to NICU, 6th floor Shands Jacksonville after checking in.)

Course Materials

TBA

Additional Information
Students will be assigned to the NICU at Shands/Jacksonville. 1 student per rotation with possibility of 2 students/rotation under special circumstances and with prior approval.

**Neonatology Elective**

**PED E 3 | 4th Year Elective | Pediatrics | Clinical Science**

**Prerequisites**

Grade of "B" or better in Pediatric Clerkship.

**Course Description**

COURSE GOALS: This course will provide an introduction to newborn intensive care that will include, but not be limited to:

1. An organized approach to the total care of complex, sick newborn patients.
2. An understanding of common neonatal respiratory disorders.
3. An understanding of neonatal fluid, electrolyte and nutritional support.
5. Neonatal invasive procedures.
6. Ethical issues in neonatal medicine.

**Course Faculty and Staff**

- David J Burchfield MD (Director)
- Meghan Lopez (Course Staff)

**Meeting Place and Time**

NICU, 7:30am.

**Course Materials**

Recommended: Avery's Neonatology, Pathophysiology, and Management of the Newborn.

**Additional Information**

In-house call one night per week (will follow the 80-hour rule as established in the Department of Pediatrics).

**Nephrology Consult Service - Jacksonville**

**MED E 6J | 4th Year Elective | Internal Medicine | Clinical Science**
Prerequisites

4th year medical student

Course Description

Acute Nephrology Hospital Consult Rotation: Exposure to acute renal failure cases, acid-base & electrolyte disturbances, kidney transplant disorders, hemodialysis, peritoneal dialysis and continuous dialysis therapies, Work with Nephrology Team to care for patients with a large variety of different renal diseases.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Charles Heilig MD (Director)
- Dani Brown (Course Staff)
- Jessica McDonald-Jazrawi (Course Staff)

Meeting Place and Time

Fourth Floor Hemodialysis Unit, Clinical Center, at 0830 on first day of rotation.

Course Materials


Additional Information

Additional information provided at beginning of rotation.

Nephrology: Clinical Consult Service

MED E 1 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical students

Course Description

This course will provide:
1. In-depth analysis and comprehensive teaching of fluid and electrolyte, and acid-based disorders
2. Daily teaching by Division of Nephrology fellows and faculty
3. Practical experience in the evaluation and treatment of inpatients with acute and chronic
renal failure, hypertension, proteinuria and the nephrotic syndrome, fluid and electrolyte disturbances, and renal parenchymal disease
4. Inpatient management of patients requiring acute or chronic hemodialysis, hemofiltration, acute peritoneal dialysis, and continuous ambulatory peritoneal dialysis
5. The opportunity to observe and assist with invasive procedures, including percutaneous renal biopsy and internal jugular and femoral catheter placement
6. Outpatient experience in the management of patients with all forms of hypertension, chronic renal failure, fluid and electrolyte disturbances, systemic diseases with renal involvement, and the nephrotic syndrome

Course Faculty and Staff

- Amir Kazory MD (Director)

Meeting Place and Time

Students should report to the Nephrology Office; CG-98; 9:00 AM on first day of rotation. Please contact the course director 2-4 weeks before initiation of your course (email: amir.kazory@medicine.ufl.edu)

Course Materials

Handouts and text book will be provided.

Neurology - Clinical Independent Study

NEUR CIS | 4th Year Elective | Neurology | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Neurology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)
Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Neurology - Externship
NEUR EXT | 4th Year Elective | Neurology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Neurology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Neurology - Independent Study
NEUR IS | 4th Year Elective | Neurology | Basic Science

Prerequisites
UF 4th year medical student
Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Neurology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Neurology - Jacksonville

NEUR E 1J | 4th Year Elective | Neurology | Clinical Science

Prerequisites

Scheduling of this course must first be arranged with the Office of Medical Education prior to entering it on your 4th year schedule.

Course Description

The rotation duration is from two to four weeks and is designed to enhance a student's knowledge of clinical neurology, but may be tailored according to student interests and professional plans. Thus, the rotation can also focus on specific clinical subspecialty interests. Students can rotate in the outpatient neurology clinic, inpatient consultation service and neurology ward and/or may work with individual faculty members in their specialty clinics.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Ramon E Bautista (Director)
Yolanda Reyes (Course Staff)
Kalina Sanders MD (Other Faculty)
Dani Brown (Course Staff)

**Meeting Place and Time**

UF Health Neuroscience Institute; 580 W. 8th Street; Tower I; 9th Floor

**Course Materials**

Basic diagnostic tools are required:
- Reflex hammer
- Tunning fork

**Neuroscience - Externship**

NSC EXT | 4th Year Elective | Neuroscience | Basic Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Neuroscience. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

**Neuroscience - Independent Study**

NSC IS | 4th Year Elective | Neuroscience | Basic Science
Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Neuroscience at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Neuroscience Teaching and Review
NSC E 1 | 4th Year Elective | Neuroscience | Basic Science

Prerequisites
Completion of Clinical Neuroscience in 2nd year curriculum with a grade of B or better. TA must be available for most of the course, and should not miss more than 5 days in the 4 week course.

NOTE: Completion of the Becoming an Effective Resident elective (listed under Pathology) - BERT is required to receive credit as a TA.

Course Description
Neuroscience Teaching and Review is an elective for 4th year medical students who want to review and to teach the basics of Medical Neuroscience. Medical Neuroscience is designed to introduce students to the broad concepts involving: the principles of cellular neuroscience; the gross and microscopic organization of the central nervous system; functional systems;
functional deficits following a CNS lesion; and higher cortical functions. Introductory clinical neuroscience concepts will be emphasized.

**Course Faculty and Staff**

- Louis A Ritz PHD (Director)

**Meeting Place and Time**

North Learning Studio for lab and lectures

**Course Materials**

Medical Neuroscience textbook; Haines Neuroanatomy atlas; numerous online materials

**Additional Information**

Students heading for neurology, neurosurgery, psychiatry or radiology are encouraged to take this elective. The course offers the opportunity to interact with residents in neurology and neurosurgery, and to share your experiences with the 1st year class.

**Neurosurgery - Clinical Independent Study**

NSU CIS | 4th Year Elective | Neurosurgery | Clinical Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Neurosurgery at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA
Neurosurgery - Externship
NSU EXT | 4th Year Elective | Neurosurgery | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Neurosurgery. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Neurosurgery - Independent Study
NSU IS | 4th Year Elective | Neurosurgery | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Neurosurgery at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Neurosurgery Elective

NSU E 1 | 4th Year Elective | Neurosurgery | Clinical Science

Prerequisites

Fourth year student.

Course Description

During the four week rotation, students will function as an integral part of the faculty led team caring for patients on the neurosurgery service at Shands Hospital at UF and the Malcolm Randall VA Medical Center. Students will be given a weekly schedule, including call days.

Rotating students are expected to demonstrate an enthusiasm for their work and an active interest in learning the nuances of advanced neurosurgical care. Students will round each morning with the resident and attending teams, and will then be encouraged to spend time in the operating room. Students will be expected to learn about neurosurgical conditions, their diagnosis, and treatment. Students will spend the majority of their time in the operating room participating in a wide breadth of neurosurgical operations. Students will also assist the junior and senior residents in direct patient care, in the neuro-intensive care unit and the neurosurgical floor. Students will spend at least two days in outpatient clinic during their time on the service. Opportunity will also be given to spend time in subspecialty areas and clinics, such as endovascular neurosurgery and stereotactic radiosurgery.
Students will attend the department's daily teaching conference. Weekly lunches will be scheduled with the rotating student and selected Faculty. During these lunches didactic topics will be covered, as well as general mentoring regarding career development in Neurosurgery. Students will also be encouraged to participate in departmental functions and social activities on an ad hoc basis.

Course Faculty and Staff

- Gregory Murad MD (Director)
- Ashley Kolosky (Course Staff)

Meeting Place and Time

Daily @ 7:00 a.m. in Neurosurgery Conference Room, L2-101 (2nd Floor of the UF Brain Institute)

Course Materials

1. A course booklet including material covered in the tutorial series will be provided.

Additional Information

COURSE GOALS AND OBJECTIVES

1. General Skills
   (a) Clinical examination - To perform a competent neurological evaluation including relevant history and neurological examination.
   (b) Radiology - To understand the fundamentals of x-ray and computerized (CT, MRI) imaging of the spine and head, including normal and common pathological entities.
   (c) Emergent management - To understand the clinical manifestations of acute and chronic intracranial hypertension, as well as other neurosurgical emergencies (infection, spinal cord compression, trauma, etc.) and principles of emergency management.

2. Intracranial Disease
   (a) Head injury - To recognize the spectrum of mild, moderate and severe head injury and to diagnose and initiate its management.
   (b) Brain tumors - To understand the broad categories, presenting symptoms and management principles of brain tumors, including indications for surgical intervention and adjuvant therapies.
   (c) Cerebrovascular disease - To differentiate common headache syndromes with emphasis on recognition, diagnosis and management of subarachnoid hemorrhage. To recognize presenting symptoms and signs of occlusive cerebrovascular disease, and general diagnostic and treatment strategies including indication for carotid surgery.

3. Spinal Disease
   (a) Spinal trauma - To diagnose and initiate acute management of spine fracture, dislocation
and spinal cord injury.
(b) Degenerative disease - To evaluate and initiate management of spinal degenerative disc and spondylotic disease, and to recognize neural compression syndromes and indications for surgical intervention.

4. Hydrocephalus.
(a) To identify signs and symptoms of hydrocephalus and know the management options in children and adults.

5. Peripheral Nerve Disease
(a) To diagnose and initiate the management of peripheral nerve injury and common nerve entrapment syndromes.

ACHIEVING THE GOALS AND OBJECTIVES

1. Clinical service
The neurosurgery service at Shands Hospital UF is divided into multiple services consisting of faculty, a senior resident, a junior resident and, on some services, an intern. Medical students will have the opportunity to work with all services over the 4 week rotation. The student will rotate through the services and will come under the direct mentorship of the senior resident for each service. The services are generally divided by subspecialty area, and allow a student to focus on one subset of neurosurgical disease, although all services also care for general neurosurgical patients.

During the rotation students may be assigned patients by the mentoring senior resident (usually 2 patients per week). The student is responsible for presenting these patients on morning rounds and is expected to complete all floor duties related to those patients including writing orders/daily notes etc. It is expected that the student is in communication with the resident members of his or her team throughout the day to be sure that all tasks related to the service are completed.

2. Daily Departmental Conferences
Neurosurgical conferences are held daily, Monday through Friday, from 7:00am to 8:00 am. 2. Daily Departmental Conferences
Neurosurgical conferences are held daily, Tuesday through Friday, from 7:00am to 8:00 am.

a) A review of the TTP cases is held the 1st and 3rd Tuesday morning (L2-101).
b) Preoperative conference is held the 2nd and 4th Tuesday (L2-101). Cranial and spinal cases are emphasized each week.
c) ABNS or ACGME Milestone conference is held each Wednesday (L2-101) and involves a resident presentation for ABNS Board review or Medical Knowledge milestone.
d) Grand Rounds conference is held the 1st and 3rd Thursday morning (L2-101) and involves a topic review.
e) Infection Task Force or Readmissions conference is held the 2nd Thursday (L2-101) and involves a detailed review of topic in alternating weeks.
f) Journal Club is (L2-101) held monthly. The student will be provided with an article to critique and present.
g) Neuropathology/Neuroradiology conference is held the 3rd Friday morning of each month (L2-101) and involves case presentations by the attending neuropathologist and the attending neuroradiologist.
h) Brain tumor board is held every Tuesday afternoon at 4:00 pm (L2-101) and involves a multidisciplinary discussion of all brain tumors operated the previous week.
i) Epilepsy conference is held every Wednesday morning at 8:30 am (LG 116) and involves a detailed review of the preoperative data on epilepsy patients.

3. Tutorials
4. Neurosurgery Clinics
Students are expected to attend clinic on at least one Thursday at Shands, and one Tuesday at the VA. At this clinic the student will be assigned patients to interview, examine and present. Students are also invited to participate in any of the clinics listed on the timetable. During the final week of the rotation the student may be asked to interview a new patient for 45 minutes. The student will be assessed on clinical history and physical examination performance.

5. Emergency call
To obtain exposure to acute neurosurgical conditions it is expected that the student takes call on the same schedule as their senior resident mentor.

6. Operating room experience
Operating room attendance is encouraged and guidance as to which surgeries to attend should be obtained from the senior resident. All surgeries concerning patients for whom the student is responsible should be attended. Level of participation in the surgery is up to the attending present but where possible the student should be scrubbed in.

7. Oral presentation skills: The student is expected to perform a 15-minute presentation at morning conference in the final week of the 4 week rotation. This presentation may be about any neurosurgical or neuroscience topic. This is an opportunity for students to present research that they may be working on during or prior to medical school. Other options include interesting case reports or brief topic reviews. Faculty from the department are available to help in preparing this presentation.

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**No Course Scheduled**

**COM E 7 | 4th Year Elective | Comec Chapman Education Center | N/A**

**Prerequisites**

4th Year UF COM student
Course Description

This course listing should be used as a place holder in rotation blocks where there are not courses scheduled.

There are not credits associated with this entry.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

NA

Course Materials

NA

Additional Information

NA

Non-surgical Orthopaedics and Sports Medicine

ORTH E 4 | 4th Year Elective | Orthopaedics | Clinical Science

Prerequisites

Satisfactory completion of third-year clerkships

Course Description

COURSE GOALS: To increase the student's knowledge of assessment and management techniques for outpatient musculoskeletal and sports medicine injuries. Student's will rotate in orthopaedics clinics including the UF Runner's Clinic. Students will also have the opportunity to observe testing conducted on athletes in the UF Sports Performance Center. This course will emphasize appropriate history-taking, physical examination, radiologic testing, and treatment for patients with a variety of musculoskeletal problems and demonstrate the different approaches of surgical and non-surgical Sports Medicine specialists. This course is recommended for all students interested in treating musculoskeletal and sports injuries whether they are considering a career as a primary care physician or specialist.

Course Faculty and Staff

- Kevin R. Vincent MD, PhD (Director)
- MaryEllen Paulk (Course Staff)
Meeting Place and Time

Second Floor of the Orthopaedic and Sports Medicine Institute on Hull Road, Monday - Friday 7:45 a.m. - 5:00 p.m.

Course Materials

Selected readings will be suggested by attending physicians regarding commonly treated Musculoskeletal and Sports Medicine Injuries.

OB/GYN - Clinical Independent Study

OBG CIS | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Obstetrics and Gynecology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA
OB/GYN - Externship

OBG EXT | 4th Year Elective | Obstetrics and Gynecology | Clinical Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Obstetrics and Gynecology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

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OB/GYN - Independent Study

OBG IS | 4th Year Elective | Obstetrics and Gynecology | Basic Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Obstetrics and Gynecology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**
OMFS Anesthesiology
OMFS ANS | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites
Must be a dental resident

Course Description
This course should only be scheduled if you are a student participating in the Oral Maxillofacial combined program.

Course Faculty and Staff
- Ricky McHugh (Course Staff)
- Christopher Giordano MD (Director)
- Poppy W. Meehan (Course Staff)
- Madalyn Murray (Course Staff)

Meeting Place and Time
TBA

Course Materials
TBA

OMFS Anesthesiology - Jacksonville
OMFS ANS J | 4th Year Elective | Anesthesiology | Clinical Science

Prerequisites
Must be a OMS resident
Course Description

This course should only be scheduled if you are a student participating in the Oral Maxillofacial combined program in Jacksonville.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Course Staff)
- Tirbod Fattahi MD, DDS (Director)
- Peggy Hogan (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time

TBA

Course Materials

TBA

Additional Information

TBA

OMFS Surgery

OMFS SUR | 4th Year Elective | Oral Maxillofacial Surgery | Clinical Science

Prerequisites

Open to any 4th year medical student and Oral and Maxillofacial Surgery residents in medical school

Course Description

This course provides clinical and didactic exposure to the surgical and nonsurgical management of various oral conditions including common dental diseases (caries and periodontal disease), maxillofacial trauma, oral and perioral pathology including cysts, benign and malignant tumors, oral soft tissue diseases, oral manifestations of systemic disease.

Course Faculty and Staff

- Patricia Carpenter (Course Staff)
- Benjamin J. Schlott DMD, MD (Director)

Meeting Place and Time
OMFS Surgery - Jacksonville

OMFS SUR J | 4th Year Elective | Oral Maxillofacial Surgery | Clinical Science

Prerequisites
Must be a dental student or 4th year medical student.

Course Description
Thorough and complete understanding of the anatomy and surgical techniques utilized in maxillofacial surgery. A great asset for students interested in ENT or Plastic Surgery careers.

Course Faculty and Staff
- Frank J Genuardi MD, MPH (Other Faculty)
- Tirbod Fattahi MD, DDS (Director)
- Peggy Hogan (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
8:00 AM - Student Coordinator's office - 3rd floor Faculty Clinic

Course Materials
Handouts

Ophthalmology - Clinical Independent Study

OPH CIS | 4th Year Elective | Ophthalmology | Clinical Science

Prerequisites
UF 4th year medical student
Course Description

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Ophthalmology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Additional Information

TBA

Ophthalmology - Externship

OPH EXT | 4th Year Elective | Ophthalmology | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Ophthalmology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials
Ophthalmology - Independent Study

OPH IS | 4th Year Elective | Ophthalmology | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Ophthalmology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Ophthalmology Clinic - Jacksonville

OPH E 1J | 4th Year Elective | Ophthalmology | Clinical Science

Course Description

This course is only offered for a 4 week option - no 2 week options.

Students will be involved with outpatient care in the Ophthalmology clinic under the supervision of attending physicians. They will be responsible for observing and learning the tests needed during an eye exam, shadowing the physicians during their clinic hours, exposure to common surgical procedures in the operating room, and attendance at the departmental educational lecture series. The rotation will be 4 weeks and the objectives are to learn to perform a thorough patient evaluation including an eye exam, any eye tests needed, and formulating a differential diagnosis.
There is a maximum of 1 student per rotation.

**Course Faculty and Staff**

- Kathryn MacKenzie MS (Course Staff)
- Sandeep Grover MD (Director)
- Dani Brown (Course Staff)

**Meeting Place and Time**

UF Eye Institute  
580 W. 8th Street  
Tower 2, 3rd Floor (Administrative Office)  
904-244-9361

Arrive to our Administrative Office at 9:00 AM on the first day of the rotation.

**Additional Information**

The UF-Jacksonville Department of Ophthalmology has a 3-year ophthalmology residency.

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**Orthopaedic - Clinical Independent Study**

ORTH CIS | 4th Year Elective | Orthopaedics | Clinical Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Orthopaedics at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Meeting Place and Time**

TBA
**Orthopaedic - Externship**

**ORTH EXT | 4th Year Elective | Orthopaedics | Clinical Science**

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Orthopaedics. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Course Materials**

TBA

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**Orthopaedic - Independent Study**

**ORTH IS | 4th Year Elective | Orthopaedics | Basic Science**

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Orthopaedics at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation.
This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Course Materials**

TBA

**Orthopaedic Surgery & Rehabilitation - Jacksonville**

ORTH E 1J | 4th Year Elective | Orthopaedics | Clinical Science

**Course Description**

NA

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Amanda Matthews (Course Staff)
- Dani Brown (Course Staff)
- Hudson Berrey MD (Director)

**Meeting Place and Time**

Orthopaedic Conference Room at 6:30 AM (morning report) on first day of rotation

**Course Materials**

Essentials of Musculoskeletal Care by Greene (AAOS book)

**Additional Information**

Non-University of Florida students should contact department coordinator prior to submitting application.

**Otolaryngology - Clinical Independent Study**

OTOL CIS | 4th Year Elective | Otolaryngology | Clinical Science
Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Otolaryngology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Otolaryngology - Externship
OTOL EXT | 4th Year Elective | Otolaryngology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Otolaryngology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff
Course Materials
TBA

Otolaryngology - Independent Study
OTOL IS | 4th Year Elective | Otolaryngology | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Otolaryngology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials
TBA

Otolaryngology - Surgical Elective
OTOL E 1 | 4th Year Elective | Otolaryngology | Clinical Science

Prerequisites
None

Course Description
COURSE GOALS:
1. To acquaint students considering careers in otolaryngology with the management of the most common otolaryngologic disorders they will encounter in their practice.
2. To better prepare students to independently manage patients with routine otolaryngologic disorders by allowing them to evaluate and treat such conditions under the supervision of a faculty member.
3. To review and enhance the student's knowledge of head and neck anatomy and to train students in the performance of a complete head and neck exam.
4. To educate students as to the proper utilization of otolaryngologic consultation.
5. To provide a detailed understanding of the management of obstructive sleep disorders, otitis, allergic rhinitis, sinusitis, hoarseness, tonsillitis, common head and neck cancers, and hearing problems via small group discussions and direct patient care.

Course Faculty and Staff

- Neil Chheda MD (Director)
- Kari Waite (Course Staff)

Meeting Place and Time

ENT Office, M2-228 on the first day of rotation. Kari will give you a schedule and needed materials.

Course Materials

Ear, Nose, and Throat Diseases: A Pocket Reference by W. Becker, H.H. Naumann, & C.R. Pfaltz

Additional Information

Must return any and all materials borrowed during your rotation by the last Friday.

4 week elective designed for students interested in pursuing otolaryngology as a career.

Pain and Addiction

PSY E 10 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

None

Course Description

COURSE GOALS: This course will provide:

1. A comprehensive assessment & treatment model that includes:
   a) physical factors (physical structures, "pain generators").
b) biologic (co-morbid illness, nutrition, addictive substances, non-addictive medications, opiates) and
c) emotional / behavioral factors (mood, anxiety &/or addiction disorders; stress management, lifestyle adjustment).

3. A review of neuroanatomy and neurophysiology as it applies to acute and chronic pain, and nociceptive and neuropathic pain.

4. A review of the pharmacology of local anesthetics, analgesic drugs (both opioid and non-opioid), and adjunctive medications (antidepressants, anticonvulsants, etc.)

5. An introduction to the evaluation of patients presenting with chronic pain disorders, with particular attention to identification & management of comorbid mood, anxiety, sleep, &/or substance use disorders.

6. Development of comprehensive, multi-modal, individualized treatment plans pertinent to each patient unique combination of contributing factors.

**Course Faculty and Staff**

- **Martha Brown MD** (Co-Director)
- **Terry Lemesh** (Course Staff)
- **Adrian Blotner MD** (Director)

**Meeting Place and Time**

UF MOB at Springhill, 3rd floor; NW 39th Avenue; Gainesville, FL 32606 - Monday through Friday, 7:45 AM to 5:00 PM

**Course Materials**

1. The Selfish Brain; Robert L. Dupont, M.D.

2. The Biochemical Basis of Neuropharmacology; Cooper, Bloom and Roth

3. Select journal articles and online readings associated with particular cases, patient experiences

4. Wide variety of patient populations and treatment settings (FRC-Residential, FRC-Impaired Professional, Meridian, VA, VA-ambulatory, TPC Village (JAX), Gateway (Jax), Stewart Marchman (Daytona), outpatient pain and iatrogenic addiction programs and UF Student Mental Health

**Additional Information**

For more information please contact Terry Lemesh tjlemesh@ufl.edu 352-594-1870
Pancreas/Biliary Surgery
SUR E 20 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
4th year medical student

Course Description
TBA

Course Faculty and Staff
- Michele Silver (Course Staff)
- Jose Trevino MD (Director)

Meeting Place and Time
Please contact Michele Silver in the Surgery Education Office for reporting instructions.

Course Materials
Textbooks and selective journal publications.

Additional Information
TBA

Pathology - Clinical Independent Study
PATH CIS | 4th Year Elective | Pathology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Pathology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
• Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Pathology - Externship
PATH EXT | 4th Year Elective | Pathology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Pathology. Students should complete the paperwork required from the institution where the rotation is requested and the “in-house” Externship Application at UF.

Course Faculty and Staff
• Beth Magyari (Course Staff)
• Matthew Ryan MD, PhD (Director)

Course Materials
TBA

Pathology - Independent Study
PATH IS | 4th Year Elective | Pathology | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Pathology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Course Materials**

TBA

**Pathology Teaching Elective - Cardiovascular System**

**PATH E 18 | 4th Year Elective | Pathology | Basic Science**

**Prerequisites**

Successful completion of the basic science curriculum

**NOTE:** Completion of the Becoming an Effective Resident elective (listed under Pathology) - BERT is required to receive credit as a TA.

**Course Description**

The purpose of this 2nd year course is to review pathologic manifestations of disease that affect specific organ systems and the laboratory alterations useful in diagnosis and following the course of disease. Students will participate in the Cardiovascular course as teaching assistants supervised by the Course Director or pathology faculty responsible for teaching the pathology of a particular organ system. Students will instruct/assist in laboratories and discussion groups; attend lectures and may participate in surgical or clinical pathology practice as appropriate for the topics being covered in the course; students may also elect to participate in improving teaching materials.

**Course Faculty and Staff**

- William E Winter MD (Director)
- Emilee Rice (Course Staff)
Meeting Place and Time

Students will attend all of the scheduled laboratories and lectures while they are on this rotation. Other meetings will be scheduled as needed.
Email Deena Weiss for details.

Course Materials


Additional Information

One way to learn is to teach. If you can teach a topic, you likely will need to master that topic through scholarship, reflection and integration. Take the challenge!

Pathology Teaching Elective - Hematology

PATH E 12 | 4th Year Elective | Pathology | Basic Science

Prerequisites

Successful completion of the basic science curriculum.

NOTE: Completion of the Becoming an Effective Resident elective (listed under Pathology) - BERT is required to receive credit as a TA.

Course Description

The purpose of this 2nd year course is to review pathologic manifestations of disease that affect specific organ systems and the laboratory alterations useful in diagnosis and following the course of disease. Students will participate in the second year Hematology course as teaching assistants supervised by the Course Director or pathology faculty responsible for teaching the pathology of a particular organ system. Students will instruct/assist in laboratories and discussion groups; attend lectures and may participate in surgical or clinical pathology practice as appropriate for the topics being covered in the course; students may also elect to participate in improving teaching materials.

Course Faculty and Staff

- William E Winter MD (Director)
- Emilee Rice (Course Staff)

Meeting Place and Time

Students will attend all of the scheduled laboratories and lectures while they are on this rotation. Other meetings will be scheduled as needed.
Email Deena Weiss for details.
Course Materials

Additional Information
One way to learn is to teach. If you can teach a topic, you likely will need to master that topic through scholarship, reflection and integration. Take the challenge!

Pediatric - Clinical Independent Study
PED CIS | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Pediatrics at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Pediatric - Externship
PED EXT | 4th Year Elective | Pediatrics | Clinical Science
Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Pediatrics. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Pediatric - Independent Study

PED IS | 4th Year Elective | Pediatrics | Basic Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Pediatrics at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA
Pediatric Cardiology
PED E 1 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Fourth year medical student

Course Description
This is a course in clinical pediatric cardiology. The goals are as follows:
1. Develop cardiovascular physical examination skills. Distinguishing an innocent murmur from structural congenital heart disease in an ambulatory clinical setting.
2. Develop an approach to the Diagnosis of the critically ill neonate with congenital heart disease by understanding a pathophysiological as well as an anatomical/morphological approach.
3. Understand oxygen transport as it is applied to congenital heart disease.
4. Develop skill in the interpretation of the pediatric electrocardiogram and chest roentgenogram. In addition, develop an appreciation for the diagnostic capability of echocardiography in the management of children with congenital heart disease.

This rotation will focus on outpatient evaluation of children with a variety of congenital heart lesions. These patients will be new referrals to Pediatric Cardiology and those patients returning for follow-up evaluation. Each student will see three to five patients during a half-day session and will be precepted by the cardiology staff involved in those clinics. This arrangement provides detailed one-on-one teaching with the staff cardiologist.

Students also attend teaching and patient care clinical conferences.

Course Faculty and Staff
- Jennifer Co-Vu (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
Human Development Bldg., Room HD313; Arrive at 7:30 AM on day 1 of the rotation. Call 352-273-5542 with any questions.

Course Materials
1. Introductory and reference textbooks of pediatric cardiology. We will provide core curriculum of articles for students' initial review.
2. Personal instruction in physical examination using the cardiology patient simulator "Harvey" available.
3. Pathological demonstrations of common congenital heart lesions.
Pediatric Cardiology - Jacksonville
PED E 2J | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
4th year medical students

Course Description
Students will spend one month with the Pediatric Cardiology faculty in Jacksonville. The experience will allow for broad exposure to problems in pediatric cardiology through direct patient contact in the cardiology clinic as well as observation in the echocardiography and catheterization laboratories and in the operating room. Each student's month will be tailored according to their interests.

Course Faculty and Staff

- Jose A. Ettegui MD (Director)
- Randall M Bryant MD (Other Faculty)
- William J Marvin MD (Other Faculty)
- Frank J Genuardi MD, MPH (Other Faculty)
- Robert F. English MD (Director)
- Stephanie Lacey DO (Other Faculty)
- Brandon Kuebler MD (Other Faculty)
- Thomas Moon MD (Other Faculty)
- Daniela Neagu MD (Other Faculty)
- Chelsea Rountree (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
Pediatric Education Office, 841 Prudential Drive, Suite 1130 - 11th Floor, Aetna Building, Jacksonville, FL
8 a.m.

Course Materials
Syllabus of articles pertaining to congenital and acquired heart disease as well as rhythm disturbances will be given to students rotating on the elective.

Additional Information
Please contact Dr. English for questions regarding this course.
Pediatric Critical Care (PICU) - Jacksonville

PED E 1J | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Completion of 3 years of medical school.

Course Description
Students are required to attend daily AM critical care rounds begining 0700 hrs Mon-Fri; noon conferences; pediatric critical care conferences and weekly pediatric grand rounds.

Course Faculty and Staff
- Virgilio T. Saldajeno Jr. MD (Other Faculty)
- Frank J Genuardi MD, MPH (Other Faculty)
- Jose Irazuzta MD (Other Faculty)
- Solange Benjamin-Thorpe MD (Other Faculty)
- Michael O Gayle MD (Director)
- Javed Akhtar MD (Other Faculty)
- Jason Scimeme MD (Other Faculty)
- Kevin Sullivan MD (Other Faculty)
- Shamsur Chowdhury MD (Other Faculty)
- Chelsea Rountree (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville
8 a.m.

Course Materials
Students are encouraged to review pediatric critical care material in textbooks such as The Textbook of Pediatric Care-Editor: Rogers et al, the PICU resource folder on The PICU computer and distributed handout material.

Additional Information
The student is encouraged to take 1-2 night calls during the rotation and one weekend day for 6-8 hours. Students will be assigned to the PICU from 7-4 weekdays and may wish to stay longer with residents and physician assistants for interesting cases.

Pediatric Critical Care Medicine
PED E 11 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Successful completion of 3rd year pediatrics clerkship

Course Description

COURSE GOALS:
1. The student will become familiar with a systematic approach to recognizing, assessing, and stabilizing the critically ill child.
2. The student will gain experience in some of the technical aspects of caring for the critically ill child, including venous access, arterial access, airway management, and critical care ultrasound. This also includes knowing the indications and contraindications for interventions and understanding how to interpret laboratory and physiologic data.
3. The student will gain experience in assisting in the care of postoperative children.
4. The student will gain experience with applied physiology and pharmacology of all organ systems, with special emphasis on the central nervous, cardiovascular, renal and respiratory systems.

Course Faculty and Staff
- Torrey D. Baines MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
Shands PICU, 0730 to 1700 daily, with optional call responsibility. Brief orientation after rounds on the first day. Call PICU Fellow cell phone at (352) 494-8383 if directions needed.

Course Materials
Standard textbooks on pediatric critical care medicine are available within the intensive care unit. Key articles are located in the 'Library' folder on the PICU shared drive. In addition, students are expected to use the online Health Science Library resources to look for evidence-based articles on topics and the online pharmacy information.

Additional Information
There is an ICU attending, an ICU fellow and a pediatric resident in the unit every night providing supervision and teaching.

Pediatric Hematology/Oncology
PED E 5 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
3rd Year Pediatrics

Course Description

COURSE GOALS: This is a primarily outpatient based elective. The student will attend pediatric hematology/oncology clinic at the Medical Plaza 5 days per week. There, s/he will see patients in conjunction with the attending physician, perform exams, and establish a treatment plan. There will be a wide variety of patients to be seen including those with malignancies on treatment or following completion of treatment, children and adolescents with benign hematology problems including anemia, sickle cell anemia, hemophilia and other disorders. New consults will also be seen in clinic and/or the inpatient hematology/oncology/stem cell transplant service. The student will participate in the regular conferences of the Division.

Course Faculty and Staff

- William B Slayton MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Unit 41 and Pediatric Inpatient Service 8:00am - 5:00pm, Monday-Friday.

Additional Information

No required on-call responsibilities.

Pediatric Infectious Diseases

PED E 4 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Fourth year medical student

Course Description

COURSE GOALS: The student will evaluate pediatric patients admitted to the inpatient service with infectious disease problems as well as those patients for whom consultations are requested by other services. He/She will discuss the patients with the inpatient attending, review pertinent literature and write consultation or service notes. Additional experience includes attendance in clinics held each Monday [Infectious Diseases], Wednesday [HIV / AIDS], and Thursday [Infectious Diseases / Travel Clinic]. He/She will be expected to see new and return patients independently, including obtaining history and physical examination, and then present their findings to the clinic attending. Review of the literature regarding interesting patients is expected. He/She is expected to read about common topics in these
areas during the rotation.

Goals Objectives Competencies

Key: P=Professionalism, MK=Medical Knowledge; PC=Patient Care; IC=Interpersonal Communication; SBP=System Based Practice, PBLI=Practice-based Learning & Improvement

Goals for Pediatric Infectious Diseases
- To gain a working knowledge of how to approach, evaluate and manage patients with infectious diseases. (PC,MK)
- To understand how a consultation service provides patient care. (PC,MK,IC)
- Work up new patients in outpatient clinic (second year). (PL,MK)
- Develop a greater understanding of how to use anti-infective and anti-inflammatory medications, and passive and active immunizations in the treatment and prevention of infectious diseases.(PC,MK,SBP)
- Develop skills as a life-long learner relative to infectious diseases using information sources, and evidence-based medicine data and principles (MK, PBLI)
- Develop skills as a physician teacher (IC,P)

Objectives for Pediatric Infectious Diseases
- Complete 4-8 inpatient consultations (written or dictated) and follow them as the primary consultant re: follow-up, communicating with and teaching other students/residents involved the case. (PC,MK,IC)
- Complete 3-4 outpatient consultations. (PC,MK)
- Research at least one topic (of your own interest) related to ID to present to the group. (MK,PBLI)
- Prepare and give a 10-15 minute didactic presentation (with the help of the Faculty) to the Blue Team as part of their ID education (MK , PBLI)
- Complete at least one - Evidence-based Medicine search, identify one appropriate EBM article, analyze it and present your analysis to the attending / ID team. (MK,PBLI)
- Prepare a case in Morning Report Format with specific objectives for discussion and have a brief (<10 minute) summary/discussion in response to the important aspect(s) of the case (MK,PBLI)

Specific Topics to be addressed
1) Antimicrobial Therapy - decision making, choices, potential side effects, risks/benefits
2) Antiviral Therapy - indications, decision making, potential side effects, risk/benefit
3) Antifungal Therapy - indications, decision making, potential side effects, risk/benefit
4) How to use the Red Book - what information is in there
6) The "Standard" ID Evaluation and Work-up
7) Approach to FUO
8) Complications of "Routine" or Common Infections in Children
9) Approach to the Evaluation of a Child with "Too many infections!"
10) How to receive / give the best ID consult and how to use your consultant
11) Identification/characterization of pediatric patients at high risk for infection (e.g. CF, neonates/premature infants, Immune deficiency, Immune suppression, etc.)
12) Active and Passive Prophylaxis for "High Risk Patients"
13) Evaluation and Management of Neonatal HSV Infection
14) Evaluation and Management of Pediatric HIV Infection
15) Prevention of Perinatal HIV Transmission - the pediatrician's role

Course Faculty and Staff

- Robert M Lawrence MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Academic Research Building, Rm. R1-118, 8:00am Monday-Friday.

Course Materials

1. Textbooks available in division.
2. Library/Internet search as needed.
3. Recommended Bibliography

Additional Information

Student is expected to give a 20-30 minute presentation (knowledge or information about a condition, disease process or medical treatment / intervention by the end of rotation on an area of interest in Rheumatology, ID, or Immunology. A separate EBM presentation will also be expected --> clinical scenario, PICO question, literature search and analysis of the EBM paper and its applicability to the original clinical scenario.

Pediatric Infectious Diseases and Immunology - Jacksonville

PED E 5J | 4th Year Elective | Pediatrics | Clinical Science

Course Description

This rotation exposes the medical student to a variety of pediatric infectious diseases and immunocompromised patients in the hospital and outpatient settings. It allows first-hand clinical work supervised by faculty and fellows at various inpatient settings at Wolfson
Children's Hospital (i.e. general floors, pediatric and neonatal intensive care units) as well as pediatric infectious diseases outpatient clinics including the general pediatric infectious diseases clinic, HIV Program and TB clinics. The student will have the opportunity to join faculty members at the University of Florida Center for HIV/AIDS Research, Education and Services (UF CARES) program and the Duval County Health Department's weekly Pediatric Tuberculosis Clinic. During the Rotation the student will attend various didactic conferences including monthly HIV and weekly Grand Rounds, weekly Fellow Conferences, monthly Microbiology Laboratory Rounds, monthly Infectious Diseases/Microbiology conferences, monthly Research Seminars, weekly HIV 101 lecture series, quarterly fellow research and QI meetings, and annual visiting professorships and Infectious Diseases Conferences.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- Mobeen H Rathore MD (Director)
- Ana Alvarez MD (Other Faculty)
- Ayesha Mirza MD (Other Faculty)
- Nizar Maraqa MD (Director)
- Ann Usitalo PhD (Other Faculty)
- Laura Armas MD (Other Faculty)
- Mallaeswari Ravi MD (Other Faculty)
- Chelsea Rountree (Course Staff)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville
8 a.m.

**Course Materials**

Textbook of Pediatric Infectious Diseases - Editors: Feigin, Cherry, Demmler and Kaplan;
Principles and Practice of Pediatric Infectious Diseases - Editors: Long, Pickering and Prober;
Infectious Diseases of the Fetus and the Newborn Infant - Editors; Remington and Klein;
Pathology of Infectious Diseases - Editors: Connor, Chandler, Schwartz, Manz and Lack
Red Book (AAP) - Editor: Pickering

**Pediatric Nephrology and Rheumatology - Jacksonville**

PED E 7J | 4th Year Elective | Pediatrics | Clinical Science

**Prerequisites**
Fourth-year medical student

Course Description

The Division of Pediatric Nephrology and Rheumatology in Jacksonville cares for a large number of patients with acute and chronic diseases that involve the kidney and the collagen vascular system. The Division covers inpatient consultation in the general pediatric floor as well as in the nursery and pediatric intensive care units. We also care for patients with end stage kidney disease on dialysis or post kidney transplant. We have a large outpatient clinic caring for variety of renal and rheumatologic disorders.

By the end of this course, the students will become familiar with common renal and rheumatologic diseases including pediatric hypertension, hematuria, proteinuria, nephrotic Syndrome, Glomerulonephritis, fluids and electrolytes, renal replacement therapy, juvenile rheumatoid arthritis, lupus and dermatomyositis, etcetera.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Course Staff)
- Asad A Tolaymat MD (Director)
- Dani Brown (Course Staff)
- Mohammad Ilyas MD (Other Faculty)
- Chelsea Rountree (Course Staff)

Meeting Place and Time

Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville
8:00 a.m.

Course Materials

TBA

Pediatric Neurology

PED E 25 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

4th year medical student with successful completion of pediatrics as a 3rd year

Course Description

Description
The overreaching goal of the child neurology In-patient/Intensive Care Unit/Emergency Room/Consult/Outpatient rotation is to learn the skills needed to care for children with a wide
range of neurological disorders presenting acutely to the hospital for inpatient services or to the outpatient child neurology clinic.

Goals and objectives
1. Participate in the management of in-patients under the direct supervision of more senior residents and attending physicians, both on the general Pediatric Neurology services and on the specialized services (Intensive Care Unit or Emergency Room). (Patient care)
2. Learn to obtain a comprehensive history and perform an appropriate general physical and neurological examination, localizing the neurological problem, generating an appropriate differential diagnosis, and developing a cost-effective plan for the further evaluation and management of the patient. (Patient care)
3. Master communication skills and appropriate medical knowledge for your level of expertise. (Patient care)
4. To have opportunity each week, as part of the Grand Rounds experience, to witness a staff physician interview and examine a patient, and discuss the differential diagnosis, and management of the case. (Patient Care)
5. During the rotation, the student will have opportunities available to learn neurosciences, focused on the full spectrum of neurological disorders, their management and the possibilities for related clinical research. The student may participate in didactic and clinical conferences, including Journal Club, research conferences, Neuroradiology conferences, Electrophysiology conferences, Clinical Case Conferences. One attending physician will present to the student live cases seen over the previous weeks to assess and mold the trainees’ thinking processes. (Medical Knowledge)
6. Meet with the attending physician to hold patient-based clinical teaching rounds each day. (Medical Knowledge)
7. Expected to communicate with other team members to discuss the patients admitted to hospital. The medical students will be expected to read in detail about the disorders in patients for whom they have cared. Each medical student will also be expected to present a challenging neurological case at a monthly Friday Pediatric Neurology Conference. The live case-based rounds conducted each week, as part of the Neurology Grand Rounds, allows for vigorous group interaction in order to optimize patient care. (Practice-based Learning)
8. Have the opportunity to observe attending physicians obtain histories, perform examinations, and discuss impressions and plans with families, such as in the live patient part of weekly Neurology Grand Rounds. This permits role modeling. Conversely, the students will be observed in their history taking and development of rapport with children/patients. They will be observed in the inpatient service, intensive care unit, emergency room, and consultation settings. The approach to patients also is emphasized to foster their sensitivity to young children. The importance of developing interpersonal skills and open communication is emphasized in an on-going, daily basis by all staff member. (Interpersonal and communication skills)
9. Ethical issues and sensitivity to diverse patient populations are continually monitored by attending physicians, a point that cannot be overemphasized at a Center with as much patient population diversity as is seen at Shand’s Hospital-University of Florida. The medical students will also be expected to treat with sensitivity and respect all physician extenders
(Register nurses, Advanced Register Nurse Practitioners), nurses, para-professional personnel, secretaries on all the in-patient services and outpatient services.

(Professionalism)

10. To review practice guidelines, found in part on the Child Neurology Society website and the American Academy of Neurology website, with child neurology staff physicians. (System-based practice)

Suggested textbooks and reading materials


Course Faculty and Staff

- Edgard Andrade MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

8 am on the day of start in Morning Report at Shands Childrens Hospital

Course Materials

pediatric neurology readings will be recommended by the faculty

Additional Information

Email Dr Edgard Andrade and Meghan Lopez at least 2 weeks before start of the elective.

Pediatric Neurosurgery - Jacksonville

NSU E 2J | 4th Year Elective | Neurosurgery | Clinical Science

Prerequisites

Fourth year student with successful completion of pediatrics as a third year student.

Course Description

This rotation is designed to familiarize the student with a wide range of pediatric neurosurgical conditions encountered in infants, children and adolescents, as well as in prenatal conditions. Medical students must learn the basic concepts of pediatric neurology, neuroanatomy, and neurosurgery, with the desire to develop the ability to diagnose and understand the basic mechanism underlying neurosurgical diseases in infants, children and adolescents, and formulate a logical plan of treatment.
During the two to four week rotation, students will function as an integral part of the faculty led team caring for patients on the pediatric neurosurgery service at Wolfson Children's Hospital (WCH) and UF&Shands Jacksonville. Wolfson Children's Hospital is a tertiary regional children's hospital that treats children from northern Florida and southern Georgia. The UF Division of Pediatric Neurosurgery provides comprehensive care to children with all types of neurosurgical diseases with four fellowship trained pediatric neurosurgery faculty members.

Rotating students are expected to demonstrate an enthusiasm for their work and an active interest in learning the nuances of advanced pediatric neurosurgical care. Students will round each morning with the resident and attending teams, and will then be encouraged to spend time in the operating room. The student will have opportunities to acquire knowledge, skills, values, and attitudes in pediatric neurosurgery as well as participate directly in the care of patients with a vast array of clinical conditions that include, but are not limited to: surgical management of epilepsy, surgical correction of congenital disorders of the spine and cranium, surgical/radiosurgical treatment of brain tumors, and the surgical management of cerebrovascular diseases such as strokes and Moyamoya disease in children.

The faculty of the UF Division of Pediatric Neurosurgery at the University of Florida Health Science Center Jacksonville believe the Key Success Factors include, but are not limited to:

1. The development of excellent communication skills with the parents/caregivers of children. (P, PC, IC)
2. Learning to perform an adequate pediatric neurological/neurosurgical examination in infants, children and adolescents. (P, PC, IC)
3. Know what neurodiagnostic tests are required and are cost-effective, as well as efficient in the decision making process for each individual patient. (PC, MK, SBP)
4. This will be performed by, but not limited to fetal ultrasonography and magnetic resonance imaging, and computed tomography and magnetic resonance imaging in infants, children and adolescents. (PC, MK, SBP)

[P = professionalism; MK = medical knowledge; PC = patient care; PBL = problem based learning; IC = interpersonal skills; and SBP = systems based practice.]

Course Faculty and Staff

- Philipp R. Aldana MD (Director)
- Hector E. James MD (Other Faculty)
- Frank J Genuardi MD, MPH (Other Faculty)
- Alexandra D. Beier DO (Other Faculty)
- Nathan J Ranalli MD (Other Faculty)
- Dani Brown (Course Staff)
- Sara Simmons (Course Staff)

Meeting Place and Time
Course Materials
Pediatric neurosurgery reading materials/handouts recommended by the faculty.

Additional Information
Please contact Philipp R. Aldana, M.D. at least four weeks prior to the elective start date.

Office Address: 836 Prudential Drive, #1205
Jacksonville, Florida 32207
Office Tel.No: (904) 6330789

Pediatric Pulmonary Medicine
PED E 17 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
4th year medical student

NOTE - This course will not be offered for the 2016/2017 academic year.

Course Description
This elective is based on inpatient and outpatient experience with children followed by our service for chronic and acute respiratory problems. The student will attend the pediatric pulmonary clinic, see patients on the inpatient service, and in consultation with other clinical services. Based on the student's preferences, the time spent on each of these can be adjusted. There will be a wide variety of patients, including infants and children with cystic fibrosis, asthma, congenital lung malformations, and chronic lung disease of infancy. Students will be introduced to pulmonary diagnostic tests such as pulmonary function testing, flexible bronchoscopy, sleep studies and radiologic evaluation of lung disease. The student will participate in the regular conferences of the Pulmonary Division, where he/she will interact with a multi-disciplinary team involved in the care of children with lung disease.

Course Faculty and Staff

- Mutasim Abu-Hasan MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
Room D2-15 (Pediatric Pulmonology office)
8:30 am on first day of rotation
**Additional Information**

NOTE - This course will not be offered for the 2015/2016 academic year.

Please contact Brenda Martin at 273-8380 the week before your rotation so that she can prepare a set of articles and CDs to be used during the elective.

**Pediatric Renal Clinical Rotation**

**PED E 2 | 4th Year Elective | Pediatrics | Clinical Science**

**Prerequisites**

4th year medical student

NOTE - this course will not be offered for the 2016/2017 academic year.

**Course Description**

COURSE GOALS: The student will evaluate new patients and/or interesting return patients during morning clinics each week. He/She will be asked to see the consultations on the Inpatient Service and to perform a literature search on the patient problem. All patients will be reviewed with the pediatric renal attending. The student will attend daily round and conferences with the pediatrics renal attending. At least one patient will be reviewed with the student daily. The student will be encouraged to review pertinent literature as related to each patient. The student will attend a minimum of six renal seminars every month and as many of the 4 patient care conferences every month.

**Course Faculty and Staff**

- Eduardo Garin MD (Director)
- Meghan Lopez (Course Staff)

**Meeting Place and Time**

Pediatric Clinic and Inpatient Service Areas 8:00am-5:00pm, Monday-Friday and 9:00am-12:00pm on week-ends.

**Course Materials**

Lectures and handouts.
Four afternoon Pediatric nephrology state of the art conferences per month.
Three pediatric nephrology core lectures very month.
Four patient care conferences every month.
Two renal pathology conferences every month.
A Pediatric Nephrology Manual available on the Web and by e-mail.
Additional Information

NOTE - this course will not be offered for the 2015/2016 academic year.

Clinics are on Monday all day, Tuesday, Thursday and Friday mornings, Wednesday afternoons. Pediatric dialysis unit is on 5th floor of hospital. Pediatric nephrology office is HD-214 on 2nd floor of Human Development Building.

Pediatric Rheumatology

PED E 26 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites

Fourth year medical student

Course Description

The student will evaluate pediatric patients in clinic and admitted to the inpatient service with immunodeficiencies and autoimmune/rheumatologic problems as well as those patients for whom consultations are requested by other services. He/She will discuss the patients with the inpatient attending, review pertinent literature and write consultation or service notes.

Additional outpatient experience includes attendance in clinics held each Monday [Rheumatology], Tuesday [Immunology/Rheumatology], Wednesday [Rheumatology], and Friday [Rheumatology]. He/She will be expected to see new and return patients independently, including obtaining history and physical examination, and then present their findings to the clinic attending.

Review of the literature regarding interesting patients is expected. He/She is expected to read about common topics in these areas during the rotation.

Course Faculty and Staff

- Renee Frances Modica MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

TBA:

Please call the main office at: 352-294-5252 to contact the on-service attending for the specific schedule and meeting times.

Clinic Location:

4th floor of shand's hospital infusion room for pediatric subspecialties.
Inpatient rounds:
4

**Course Materials**

Textbook of Pediatric Rheumatology by Cassidy and Petty.

"PRINTO" website for educational materials for patients and families.

Up To Date website: section on pediatric rheumatology and immunology.

**Additional Information**

Please call the main office at:
352-294-5252 to contact the on-service attending for the specific schedule and meeting times.

Clinic Location:
4th floor of shand's hospital infusion room for pediatric subspecialties.

Inpatient rounds:
4200 (green team rounding room).
Also, rounds with consultants on other services.

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**Pediatric Surgery**

**SUR E 1 | 4th Year Elective | Surgery | Clinical Science**

**Prerequisites**

Completed 3rd year surgery clerkship.

**Course Description**

Cognitive Domain: 1. Evaluate and discuss common problems frequently seen in pediatric surgery; 2. Complete a written pediatric surgery History and Physical; 3. Briefly describe the operative management of basic pediatric surgical diseases, including but not limited to: pyloric stenosis, appendicitis, hernias, cryptorchidism, intussusception, congenital anomalies, neonatal bowel obstructions, trauma evaluation and resuscitation, and common childhood solid tumors. Psychomotor Domain: 1. Demonstrate proficiency in common intern-level duties including nasogastric tube insertion, excision of skin lesions, obtaining IV access and basic suturing. 2. Recognize the role of existing and emerging surgical technology and research in the field and practice of pediatric surgery. 3. Reliably use the Internet and electronic tools as a medical resource. Affective Domain: 1. Expand his/her exposure to and appreciation for a career in pediatric surgery and academic surgery. 2. Become more aware of the opportunities available to residents in surgery. 3. Appreciate the influence of research as it applies to pediatric surgical problems. The Division of Pediatric Surgery strives to
provide the senior student an extensive exposure to major surgical problems in infants and children; including newborn anomalies, airway problems, solid tumors, acquired diseases, and trauma. General surgical principles and techniques, preoperative assessment, and postoperative care are emphasized with externship responsibility.

**Course Faculty and Staff**

- Saleem Islam MD (Director)
- Michele Silver (Course Staff)

**Meeting Place and Time**

Department of Surgery (N6-10); Pediatric Surgery; 352-273-8825 Call office to obtain time and place to meet for the first day on the rotation.

**Course Materials**

Prepared student syllabus; Selected readings from surgical texts (chapters on Pediatric Surgery) and additional readings from current journals will be assigned during the rotation for regular conferences and teaching.

**Additional Information**

Pediatric Surgery is the last true bastion of General surgery and incorporates the added advantage of being able to care for children and neonates of all ages. The variety of cases we see are unparalleled and offer an insight into embryologic and other considerations. The Sub I will be allowed to function fully as an intern by seeing consults, taking care of floor patients and operating. The Sub I will take a week of night calls as well and at the end of this rotation will become well versed at time management and handling rapid patient turnover! As this is a very busy service, you can expect to be well trained in handling consults, taking care of floor patients and ED consults as well. Research (clinical) opportunities are available as well. The student will be given an opportunity to present a clinical condition to the faculty before the end of the rotation.

Most of all -- its FUN!

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**Pediatric Surgery - Jacksonville**

SUR E 10J | 4th Year Elective | Surgery | Clinical Science

**Prerequisites**

4th year medical student

**Course Description**
The 4th year medical student will assume the responsibilities of a surgical intern with the following specific goals; 1 - intense exposure to the preoperative evaluation of the pediatric surgery patient in the outpatient clinic setting, emergency room and inpatient setting; 2 - participation as 1st or 2nd assistant in operative cases that span the breadth of general pediatric surgery; 3 - involvement in the postoperative care of the pediatric surgery patient including daily rounds, data collection and analysis, and decision making. The medical student will be expected to gain a more in-depth surgical knowledge of the pediatric surgery patient through focused reading and one-on-one discussion with the faculty. There will be a requirement for a 20 minute power point presentation at the end of the rotation. The rotation will include a weekly 3-4 hour didactic conference schedule held on Wednesday afternoons as well as weekly bedside teaching rounds.

This rotation is an excellent opportunity for the 4th year medical student interested in a career in pediatrics or pediatric surgery. However any student regardless of career goal is welcome to participate.

**Course Faculty and Staff**

- Joseph J Tepas III MD (Other Faculty)
- Maryanne Dokler MD (Other Faculty)
- Nicholas Poulos MD (Other Faculty)
- Daniel K Robie MD (Director)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Nemours Children's Clinic - Jacksonville (904-697-3737 - rotation contact no.)

Wolfson Children’s Hospital,

UF & Shands Medical Center - Jacksonville

**Course Materials**

Resident Pediatric Surgery Handbook

The chapter on pediatric surgery from the chosen general surgery text(Sabiston or Schwartz)

Selected readings from journals as assigned

**Pharmacology - Independent Study**

PHARM IS | 4th Year Elective | Pharmacology | Basic Science

**Prerequisites**

UF 4th year medical student
Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Anatomy at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Matthew Ryan MD, PhD (Director)
- Beth Magyari (Course Staff)

Meeting Place and Time

TBA

Course Materials

TBA

Physical Medicine and Rehabilitation - Externship

PMR EXT | 4th Year Elective | Physical Medicine and Rehabilitation | Clinical Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the department of Physical Medicine and Rehabilitation. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA
Physical Medicine and Rehabilitation - Independent Study

PMR IS | 4th Year Elective | Physical Medicine and Rehabilitation | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study or unique clinical experience with a particular faculty member within the Department of Anatomy at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Physical Medicine and Rehabilitation Elective

ORTH E 3 | 4th Year Elective | Physical Medicine and Rehabilitation | Clinical Science

Prerequisites
Satisfactory completion of third-year clerkships.

Course Description
COURSE GOALS: To increase the student's knowledge of assessment and management of persons with severe impairment and disability following neurologic (e.g. stroke, traumatic brain injury, spinal cord injury) or musculoskeletal (e.g. multi-trauma, arthroplasty) injuries who will benefit from comprehensive inpatient rehabilitation. This course will emphasize medical aspects of managing a patient in rehabilitation over a course of time to improve the functional outcome and enhance community reintegration.

Additional time (up to 50%) may be spent working with PM&R faculty on an outpatient basis; the student will see patients with spine/neck conditions, concussion, and MSK/sports injuries, as well as observe and assist with electrodiagnostic and ultrasound-based studies and procedures.

This course is highly recommended for all students interested in physical medicine and rehabilitation; however, the rotation is also recommended for students with interests in fields with patients who are often referred for inpatient rehabilitation (e.g. neurology, surgery, orthopedics). Students with an interest in sharpening their neurology and MSK exam skills will also derive significant benefit. The rotations will be tailored to meet the interests and needs of the student, whether they are considering a career as a primary care physician or specialist.

Course Faculty and Staff

- Kevin R. Vincent MD, PhD (Director)
- MaryEllen Paulk (Course Staff)
- Jason Zaremski MD (Other Faculty)
- Daniel Herman MD, PhD (Co-Director)

Meeting Place and Time

Shands Rehab Hospital, 4101 NW 89th Blvd., at 0800, Monday-Friday

Musculoskeletal clinics at the in the Orthopaedic and Sports Medicine Institute on Hull Road (if the student desires).

Course Materials

Selected readings will be suggested by attending physicians based on the diagnosis of patients admitted at the rehabilitation hospital during the rotation and basic musculoskeletal injuries seen in the outpatient clinics.

Additional Information

If you have any questions regarding the course, please contact Dr. Daniel Herman at hermadc@ortho.ufl.edu
Physiology - Independent Study
PHY IS | 4th Year Elective | Physiology | Basic Science

Prerequisites
4th year UF medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Physiology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Physiology Teaching Elective - GI and Hepatology
PHY E 1 | 4th Year Elective | Physiology | Basic Science

Prerequisites
3rd year required clerkships.

NOTE: Completion of the Becoming an Effective Resident elective (listed under Pathology) - BERT is required to receive credit as a TA.

Course Description
Students will participate in the second year GI course as teaching assistants supervised by the Course Director. Students will attend lectures and may instruct/assist in the following:
• Laboratory exercises (performed by students working in teams),
• Team-based learning (TBLs),
• Patient presentations,
• Self-study exercises.

The course is divided into these sections:
1. HISTOLOGY AND EMBRYOLOGY
2. PHYSIOLOGY
3. INFECTIONS OF THE GI TRACT (INCLUDING TREATMENT)
4. PATHOPHYSIOLOGY AND PATHOLOGY OF THE GI TRACT
5. LIPIDS

The focal points of “Gastroenterology and Hepatology” include: 1) recognition by the student of the pertinent history and physical examination findings in patients that suggest intestinal, pancreatic, liver and/or biliary tract disease; 2) development of a list of differential diagnoses possibly explaining the patient's presenting complaint (or complaints); 3) as appropriate, utilization of diagnostic testing (e.g., laboratory analysis, radiologic imaging studies and organ/tissue biopsy/histopathology) to establish or confirm a diagnosis; 4) understanding the physiology, pathophysiology, pathology, etiologies, epidemiology and therapies of diseases of the intestine, pancreas, liver and/or biliary tract; and 5) appreciation of psychological and sociological factors that contribute to health and disease.

Course Faculty and Staff

• Bruce Stevens PhD (Director)

Meeting Place and Time

The student must attend all labs and lectures that are scheduled during this rotation. Please email Dr. Stevens (stevensb@ufl.edu) to alert him that you are beginning this elective.

Course Materials

notes are provided online

Plastic & Reconstructive Surgery UF&Shands/VAMC
SUR E 4 | 4th Year Elective | Plastic Surgery | Clinical Science

Prerequisites

A third-year rotation in Plastic and Reconstructive Surgery is useful, but not required. We welcome all interested fourth-year medical students. Non UF medical students interested in plastic surgery are also welcome.

Course Description
COURSE GOALS: During a month long rotation, a student will perform as an extern under the supervision of the resident staff and the faculty. The emphasis will be on the principles of the diverse field that is Plastic and Reconstructive Surgery and the preoperative decision-making and postoperative care involved. The student will be expected to assist in surgeries and be exposed to variety of patients. There will also be an emphasis on basic surgical skills.

Course Faculty and Staff

- Michele Silver (Course Staff)
- Bruce A. Mast MD (Director)

Meeting Place and Time

Please contact the Course Director prior to the start of the rotation.

Course Materials

COURSE MATERIALS: Students will be given the Plastic and Reconstructive Surgery Essentials for Students packet, if they have not already received it. Learning will be from many sources - Core Curriculum, Morbidity & Mortality, Grand Rounds, Preoperative Conference, and Journal Club. Also the faculty and residents will be involved with teaching both in clinic and in the operating theater. The student will have the opportunity to learn from and participate in the care of patients with a variety of surgical problems. The student will be an active participant on the service.

Additional Information

If there are any questions regarding any aspect of the rotation, please do not hesitate to get in touch with us.

Previous Credits Obtained

COM E 5 | 4th Year Elective | Comec Chapman Education Center | Basic Science

Prerequisites

4th Year UF Medical Student

This course should be selected when creating schedules to use as a placeholder for credits obtained from previous participation in a course or courses (i.e. Narrative Medicine).

Course Description

This course should be selected when creating schedules to use as a placeholder for credits obtained from previous participation in a course or courses (i.e. Narrative Medicine).

Course Faculty and Staff
No faculty or staff.

Meeting Place and Time
TBA

Primary Care in Nicaragua
PED E 12 | 4th Year Elective | Pediatrics | Clinical Science

Prerequisites
Completion of third year clerkships.

Course Description

COURSE GOALS: The course will consist of a cultural and clinical experience at urban and/or community clinics in Nicaragua.

1. To provide students with an opportunity to diagnose and treat a variety of diseases seen with higher frequency in developing countries. University of Florida faculty will directly supervise all work.

2. To provide a clinical setting which medical students may learn about primary health care provision in a developing country.

3. To provide an orientation/opportunity to learn about the interaction between health care professionals and agricultural, economic, and social programs in Nicaragua. To observe how these disciplines cooperate to eradicate some of the most debilitating and pervasive diseases of developing countries, such as, diarrhea and malnutrition.

4. To provide a setting in which students will be surrounded by a culture other than their own.

5. To provide an opportunity for students to interact and share ideas with Central American health care students and professionals so as to learn first-hand of the health care systems of our nation's neighbors.

6. To provide a setting for students to perform research projects in community health with the participation of Nicaraguan medical students.

7. Before the course begins, students will be expected to attend three or four meetings with the supervising faculty member to discuss various aspects of the trip (e.g. clothing to bring, supplies, and expectations with regard to student performance and learning objectives).

8. Each student will be required to keep a log of patient visits during the rotation and to submit one patient story.

Course Faculty and Staff

- Larry G Rooks MD (Co-Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time
Additional Information

Individual costs are estimated at $650 which includes airfare and living expenses. Limited to 25 students.

Primary Care in Otolaryngology

OTOL E 2 | 4th Year Elective | Otolaryngology | Clinical Science

Prerequisites

None

Course Description

COURSE GOALS:
1. To acquaint students considering careers in primary care fields with the management of the most common otolaryngologic disorders they will encounter in their practice.
2. To better prepare students to independently manage patients with routine otolaryngologic disorders by allowing them to evaluate and treat such conditions under the supervision of a faculty member.
3. To review and enhance the student's knowledge of head and neck anatomy and to train students in the performance of a complete head and neck exam.
4. To educate students as to the proper utilization of otolaryngologic consultation.
5. To provide a detailed understanding of the management of obstructive sleep disorders, otitis, allergic rhinitis, sinusitis, hoarseness, tonsillitis, common head and neck cancers, and hearing problems via small group discussions and direct patient care.

COURSE SETTING: Outpatient setting at the Hampton Oaks and Shands ENT Clinics. Inpatient and surgical care are not emphasized but available to the student desiring a wider perspective.

Course Faculty and Staff

- Neil Chheda MD (Director)
- Kari Waite (Course Staff)

Meeting Place and Time

ENT Office in MSB room M2-228 to pick up materials and rotation schedule from Nicolle Rutledge the first day of your rotation.

Course Materials
Additional Information

Must return any and all materials borrowed during your rotation on the Friday of your last week.
Course content could be tailored to individual student's future career interests.

Psychiatry - Clinical Independent Study
PSY CIS | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Psychiatry at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Psychiatry - Externship
PSY EXT | 4th Year Elective | Psychiatry | Clinical Science
**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Psychiatry. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Course Materials**

TBA

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**Psychiatry - Independent Study**

PSY IS | 4th Year Elective | Psychiatry | Basic Science

**Prerequisites**

UF 4th year medical student

**Course Description**

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Psychiatry at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

**Course Materials**

TBA
Psychiatry Consultation/Liaison
PSY E 15 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites
Fourth Year Medical Student - students must contact the Course Director prior to the start of their rotation.

Course Description
This rotation exposes students to the interface of Psychiatry with other medical specialties, especially as many inpatients have significant co-morbidities. The focus will be on the treatment of psychiatric emergencies and the management of the agitated patient. Students will help to evaluate and treat patients with psychiatric and medical/surgical Co-morbidities. Students will also take part in attending rounds and teaching conferences. The rotation can be tailored to the specific interests and needs of participating students, depending on what field choice they have made. Students can be assigned to take care of patients with specific co-morbidities or in particular settings (ie ICU, ER, etc..) that would best enhance their medical knowledge for their future residency.

Course Faculty and Staff
- Almari Ginory DO (Director)
- Terry Lemesh (Course Staff)
- Martha Brown MD (Co-Director)

Meeting Place and Time
Students must contact the Course Director prior to the start of their rotation.
Time: 8am at beginning of rotation
Place: Psychiatry Consultation/Liaison workroom. Please e-mail Dr. Nguyen before the rotation begins: mlnguyen@ufl.edu.

Course Materials
DSM-IV Diagnostic and Statistical Manual of Mental Disorders

Additional Information
Faculty Participants - Mathew Nguyen, MD

Psychiatry Outpatient Clinics
PSY E 7 | 4th Year Elective | Psychiatry | Clinical Science
Prerequisites
Satisfactory completion of third year clerkship in Psychiatry. Note, students from outside UF COM must obtain prior approval from Course Director.

Course Description
Senior medical students will receive training in the comprehensive evaluation and treatment of a wide variety of psychiatric conditions, managed in the outpatient setting. The Medical Office Building (MOB) at Springhill Psychiatric Clinics (3rd floor) are the primary location for this rotation. However, students may also elect to complete some or all of the rotation at our Vero Beach Clinic. Clinic specialty areas include Women’s Health, Neuropsychiatry and Movement Disorders, DBS, Eating Disorders and Weight Management, Sleep Disorders, Adult Autism/PDD, Geropsychiatry, TMS clinic, and more. Medical students will work either directly with faculty experts in specialty areas, or closely with psychiatry residents under the supervision of an attending. Students may also be involved in the mentoring and instruction of 3rd year clerkship students currently rotating on psychiatry.

Course Faculty and Staff
- Robert N Averbuch MD (Other Faculty)
- Herbert E Ward MD (Co-Director)
- Terry Lemesh (Course Staff)
- Martha Brown MD (Director)

Meeting Place and Time
To be arranged. Please contact Terry Lemesh (tjlemesh@ufl.edu) 594-1870 or Dr. Averbuch (averbuch@ufl.edu) at least a few weeks prior to arrange specifics of the rotation.

Course Materials
DSMV Pocket Companion
Kaplan and Saddock's Synopsis of Psychiatry, Latest Edition

Additional Information
Please note, in the past, this rotation was selected for those interested in inpatient services (including Addictions) and consult rotations. These areas are now offered as distinct, separate courses.

Psychiatry, Medical Psychology Division: Cognitive Behavioral Therapy
PSY E 18 | 4th Year Elective | Psychiatry | Clinical Science
Prerequisites

Medical students who are in their fourth year are eligible for enrollment. Students are responsible for contacting the Course Director prior to start of the rotation.

Course Description

This rotation will offer medical students the opportunity to observe and participate in the delivery of psychological services using Cognitive Behavioral Therapy (CBT) and Exposure Response Prevention treatment within an outpatient setting. The Medical Psychology Division is an internationally recognized treatment and training center for Obsessive Compulsive Disorder (OCD) and offers an intensive OCD program where treatment is delivered daily over the course of three weeks. Data for patients who have participated in the UF intensive program have shown significant improvements, with approximately 80 to 85 percent showing symptom reduction by at least 50 percent. Medical students will also be able to observe other psychiatric conditions such as autism, Anxiety, Depression, ADHD, Tourette’s, Trichotillomania, and Tic Disorder. This rotation can be tailored to the specific interests and needs of participating students. This rotation is well suited for students who want to learn more about psychopharmacological and behavioral treatments, particularly CBT, and are interested in primary care, Pediatrics, or a Psychiatry residency in the future.

Course Faculty and Staff

- Terry Lemesh (Course Staff)
- Joseph McNamara PhD (Director)
- Gary Geffken PhD (Other Faculty)
- Cindi Flores PhD (Other Faculty)
- Martha Brown MD (Other Faculty)

Meeting Place and Time

Students must contact the Joseph McNamara, Ph.D. prior to the start of their rotation to make arrangements.

Location: 8491 NW 39th Ave, Gainesville, FL 32606 (Spring Hill)

Email: Joseph McNamara, Ph.D. jpm2@ufl.edu

Course Materials


***When the new version is published, please purchase the new version

Psychosomatic Medicine - Jacksonville
PSY E 16 | 4th Year Elective | Psychiatry | Clinical Science

Prerequisites

4th year Medical Student

Course Description

Students will be involved in the psychiatric assessment of medically ill hospitalized patients. They will work directly under the supervision of the faculty of the Department of Psychiatry. Objectives of the rotation are to learn to perform a thorough Psychiatric patient evaluation, formulate a comprehensive differential diagnosis, coordinate care with primary teams managing patients, provide recommendations from a psychopharmacologic and therapeutic perspective to manage psychiatrically ill patients in the course of their medical care.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Dani Brown (Course Staff)
- Chirag Desai MD (Director)
- Phyliss Nicole Taylor MD (Other Faculty)
- Brian Celso PhD (Other Faculty)
- Rosetta Payne (Course Staff)

Meeting Place and Time

Tower 2, 6th Floor, Department of Psychiatry 8:30am

Course Materials

Select reading materials to be provided by the Department of Psychiatry in addition to online access to library database resources.

Pulmonary Medicine

MED E 5 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

4th year medical student

Course Description

Promote an understanding of clinical pulmonary physiology through the interpretation of pulmonary function testing.

Learn the evaluation and management of chronic obstructive pulmonary disease, asthma, lung masses, interstitial lung disease and sleep disorders
Be exposed to an overview of pulmonary diseases, i.e., tuberculosis and occupational lung disease.

Students will rotate with the Pulmonary consult service. Students are expected to do consults on their own and present these consults to the rest of the team for discussion. Students are also expected to follow their patients and report appropriate updates on the case. In the afternoon students will have the option to follow the attending on service to their clinic to be exposed to outpatient management of pulmonary diseases.

**Course Faculty and Staff**

- Jorge Lascano MD (Director)
- Michael A Jantz MD (Other Faculty)
- Hassan Alnuaimat MD (Other Faculty)
- Irahim Faruqui MD (Other Faculty)
- Chris Pintado MPH (Course Staff)

**Meeting Place and Time**

Contact Chris Pintado prior to the start of the rotation 352-273-8667 or via email Christopher.Pintado@medicine.ufl.edu. The meeting place will be in M452 at 9 am in the HSC for the first morning of the rotation.

**Course Materials**

Articles of interest.

COPD

1. [http://www.annals.org/content/143/5/317.full.pdf+html](http://www.annals.org/content/143/5/317.full.pdf+html)
   A large multi-center RCT of VA patients with moderate to severe COPD (mean baseline FEV1 36%) found tiotropium reduced the proportion of patients with 1 or more exacerbations during 6 months of treatment vs. placebo (27.9 % vs. 32.3 %). These results support using tiotropium in COPD patients with moderate to severe obstruction and frequent exacerbations.

   This study found a combination of BMI, FEV1, modified MRC dyspnea scale, and 6-minute walk (i.e. the BODE index) was a better predictor of mortality than FEV1 alone. The BODE index may prove to be a better guide than FEV1 for assessing the efficacy of new treatments and adjusting the aggressiveness of therapy.

   The TORCH study randomized over 6,000 patients with baseline FEV1 < 60% predicted to placebo vs. salmeterol alone vs. fluticasone alone vs. a combination of salmeterol and fluticasone over 3 years. Compared to placebo, patients receiving combination therapy had a 0.9% annual reduction in mortality (p = .052). Use of salmeterol, fluticasone, or a
combination of the 2 reduced the frequency of exacerbations, but p was >.10 for all 3 for reducing risk of COPD-related death. All-cause mortality and COPD-related death were lower with combination therapy than fluticasone alone (p = .007 and .008, respectively).

Multicenter, double blind, placebo- controlled study found modest benefit to use of high-dose intravenous steroids. Steroid group had fewer treatment failures (combined endpoint of death, need for intubation, readmission, or intensification of pharmacologic therapy), and shorter hospital stays, but the primary benefit was in decreasing the need to intensify therapy with use of open-label steroids. No benefit from steroids was present at 6 months of f/u, and 2 week and 8 week courses were equally effective.

ASTHMA

RCT of 466 patients of 6 months duration found PRN use of a single inhaler combination of beclomethasone and albuterol resulted in better peak flows and fewer exacerbations compared to PRN use of albuterol alone, as well as comparable peak flows, exacerbation rate, lung function, and symptoms to regular twice daily use of beclomethasone. The PRN beclomethasone group on average used < 125 mcg/day compared to 500 mcg/day in the regular twice daily groups.

A year-long RCT of 225 adults with mild persistent asthma compared prn inhaled corticosteroids based upon symptom-based action plan vs. daily treatment with ICS vs. daily leukotriene inhibitor and found no difference in morning peak expiratory flow and the rate of asthma exacerbations despite the prn corticosteroid group using an average of only 0.5 week of steroid per year. The ICS group had superior asthma control scores and lower markers of airway inflammation. Some attribute this relatively modest benefit of regular ICS use to the lower exacerbation rate in this study compared to its predecessors, which speaks to the challenge of identifying mild persistent asthmatics.

This study included 2,760 asthmatics with a history of at least one exacerbation in the previous year and regular need for rescue bronchodilators despite baseline use of, on average, moderate doses of inhaled corticosteroid. Patients randomized to budesonide/formoterol (80/4.5) bid and prn had prolonged time to exacerbations requiring medical intervention compared to combination therapy with terbutaline prn or higher dose steroid (budesonide 320 bid) plus terbutaline prn. Subsequent RCTs have also shown favorable outcomes with this approach.

Review summarizes several large RCTs studying the role of anti-IgE antibody in allergic asthma. The use of anti-IgE is associated with decreased frequency of exacerbations, reductions in corticosteroid dose, and improved quality of life in symptomatic patients with moderate to severe allergic asthma.
CAP

359 patients with lower respiratory tract infections in 6 Swiss academic hospitals were randomized to a treatment algorithm based on procalcitonin (PCT) levels or to treatment based on current evidence based guidelines. PCT-guided therapy reduced total antibiotic exposure without any change in adverse outcomes. Controversy exists regarding the unusually high prevalence of "severe" pneumonia by PSI score, and that reduction in exposure was primarily due to reduced duration of antibiotics rather than avoidance.

Lung Nodule/Lung Ca

ACCP evidence-based clinical practice guidelines (2nd Edition) reviewing the evidence for staging of non-small cell lung cancer with CT and PET scanning.

ACCP evidence-based clinical practice guidelines (2nd Edition) reviewing the sensitivity and specificity of various tissue sampling techniques: TTNA, TBNA, EBUS, EUS, VATS, Chamberlain procedure, mediastinoscopy and extended cervical mediastinoscopy.

Guideline for how best to work up the incidental nodule(s) that nicely distills the large number of trials on this topic.

PERIOPERATIVE PULM ASSESSMENT

Updated summary of the use of PFTs, split function tests, and cardiopulmonary exercise tests in the assessment of lung resection candidates.

Multi-center, unblinded RCT with concealed allocation on 209 consecutive patients who developed severe hypoxemia after major elective abdominal surgery. Patients received oxygen vs. oxygen plus CPAP. Use of CPAP resulted in lower intubation rates, lower risk of pneumonia and sepsis, and shortened ICU stays.

PE

1. http://www.annals.org/content/135/2/98.full.pdf+html
Large prospective cohort study using the SimpliRED d-dimer assay (which has sensitivity lower than, and specificity higher than, some other d-dimer tests) found the combination of a low clinical suspicion for PE and a negative d-dimer safely ruled out pulmonary embolism without additional testing.

PFT's

An excellent comprehensive review of reference equations, types of ventilatory defects, PFT
and DLCO interpretation, severity classifications, bronchodilator response thresholds, central and upper airway processes, and interpretation of changes in pulmonary function.

**PULM HYPERTENSION**

1. http://ajrccm.atsjournals.org/cgi/reprint/179/7/615
   This prospective study of 65 patients undergoing right-heart catheterization for the diagnosis or management of pulmonary hypertension. Echo over or underestimated pulmonary artery pressure by > 10 mm Hg 52% of the time. The majority of patients had pulmonary arterial hypertension (WHO Group 1).

2. http://circ.ahajournals.org/cgi/reprint/119/16/2250
   This document is noteworthy for containing the latest consensus statement on the classification, evaluation, treatment, and monitoring of patients with pulmonary hypertension.

**Additional Information**

A list of articles of interest will be email to you for your review before the course starts.

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**Pulmonary Medicine - Jacksonville**

MED E 3J | 4th Year Elective | Internal Medicine | Clinical Science

**Prerequisites**

4th year medical student

**Course Description**

This elective involves rounding on the inpatient Pulmonary Medicine consult service with the attending physician and housestaff that are usually assigned to the service. It includes one half day in the outpatient clinic and one half day on the consult service. Usually a broad array of both common and uncommon disease states are discussed.

**Course Faculty and Staff**

- James D. Cury MD (Co-Director)
- Lorraine Sims (Course Staff)
- Sonya Newsome (Course Staff)
- Dani Brown (Course Staff)

**Meeting Place and Time**

Pulmonary/Critical Care Office; Shands Jacksonville; 9:00 AM on first day of rotation

**Course Materials**
Radiation Oncology - Clinical Independent Study
RON CIS | 4th Year Elective | Radiation Oncology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Radiation Oncology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Radiation Oncology Externship
RON EXT | 4th Year Elective | Radiation Oncology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville and ORMC within the Department of Radiation Oncology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Radiation Oncology Independent study

RON IS | 4th Year Elective | Radiation Oncology | Basic Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a research studyexperience with a particular faculty member within the Department of Radiation Oncology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Radiology - Angio/Interventional
RAD E 4 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- Darren Postoak MD (Other Faculty)
- Brian Geller MD (Other Faculty)
- Mark D. Horvath DO (Other Faculty)
- Jeffrey D. Vogel MD (Other Faculty)
- Beau Toskich MD (Other Faculty)
- Tan-Lucien Mohammed MD (Director)
- Mike Lazarowicz MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-515: 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Radiology - Body Imaging

RAD E 3 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
Meeting Place and Time
Department of Radiology, Room G-515; 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information
Please note that depending on the number of students enrolled in this elective and the diagnostic elective, participation in an early morning emergency rotation from 6AM to 2PM or an evening emergency rotation from 11AM to 8PM may be required. Please plan accordingly.

Radiology - Chest
RAD E 9 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- Suzanne T Mastin (Other Faculty)
Meeting Place and Time
Department of Radiology, Room G-515, 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information
Please note that this rotation may not be taken for less than four weeks.

Radiology - Clinical Independent Study
RAD CIS | 4th Year Elective | Radiology | Clinical Science

Prerequisites
UF 4th year Medical Student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Radiology at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA
Additional Information

TBA

Radiology - Diagnostic Imaging

RAD E 1 | 4th Year Elective | Radiology | Clinical Science

Prerequisites

None

Course Description

Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Patricia L Abbitt MD (Other Faculty)
- Julia K Marshall (Other Faculty)
- Gladys M Torres (Other Faculty)
- Brenda Tieden (Course Staff)
- Suzanne T Mastin (Other Faculty)
- David Wymer MD (Other Faculty)
- Jonathan L Williams MD, MBA (Other Faculty)
- Walter E Drane MD (Other Faculty)
- Charles H Bush (Other Faculty)
- Ronald G Quisling MD (Other Faculty)
- Troy Storey MD (Other Faculty)
- Jeffrey Bennett MD (Other Faculty)
- Darren Postoak MD (Other Faculty)
- Brian Geller MD (Other Faculty)
- Patricia Moser MD (Other Faculty)
- Cooper Dean MD (Other Faculty)
- Reordan DeJesus MD (Other Faculty)
- Rob Dubuisson MD (Other Faculty)
- Mark D. Horvath DO (Other Faculty)
- Ray A. LaRue III MD (Other Faculty)
- Eric K. Thoburn MD (Other Faculty)
- Jeffrey D. Vogel MD (Other Faculty)
- Keith R Peters MD (Other Faculty)
- Anthony Mancuso MD (Other Faculty)
Meeting Place and Time
Department of Radiology, Room G-515, 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information
Please note that students registered for the diagnostic imaging rotation will rotate to a different section each week. Depending on the number of students enrolled in this elective and the Body elective, dedicated reading room time may NOT be available within the Body Division. In addition, participation in an early morning emergency rotation from 6AM to 2PM or an evening emergency rotation from 11AM to 8PM may be required. Please plan accordingly

Radiology - Externship
RAD EXT | 4th Year Elective | Radiology | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Radiology. Students should complete the paperwork required from the institution where the rotation is requested and the "in-house" Externship Application at UF.

Course Faculty and Staff

- Sharat Bidari MD (Other Faculty)
- Beau Toskich MD (Other Faculty)
- Tara Massini MD (Other Faculty)
- Tan-Lucien Mohammed MD (Director)
- Tim Boyett MD (Other Faculty)
- Ivan Davis MD (Other Faculty)
- Joe Grajo MD (Other Faculty)
- Mike Lazarowicz MD (Other Faculty)
- Priya Sharma MD (Other Faculty)
- Ibrahim Tuna MD (Other Faculty)
- Nupur Verma MD (Other Faculty)
Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Radiology - Independent Study
RAD IS | 4th Year Elective | Radiology | Basic Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Radiology at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Course Materials

TBA

Radiology - Musculoskeletal System
RAD E 6 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Charles H Bush (Other Faculty)
- Brenda Tieden (Course Staff)
- Troy Storey MD (Other Faculty)
- Cooper Dean MD (Other Faculty)
- Tan-Lucien Mohammed MD (Director)
- Ivan Davis MD (Other Faculty)

Meeting Place and Time

Department of Radiology, Room G-515, 8AM-5PM, Mon-Fri

Course Materials

Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Additional Information

The MSK reading room is located at the Orthopaedic Institute. Students on this rotation will be required to travel back and forth between the Ortho Institute and the main hospital.

Radiology - Neurologic

RAD E 2 | 4th Year Elective | Radiology | Clinical Science

Prerequisites

None

Course Description

Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff

- Brenda Tieden (Course Staff)
- Ronald G Quisling MD (Other Faculty)
- Jeffrey Bennett MD (Other Faculty)
- Keith R Peters MD (Other Faculty)
Meeting Place and Time
Department of Radiology, Room G-515, 8AM-5PM, Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Radiology - Nuclear Medicine
RAD E 7 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; To become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- Walter E Drane MD (Other Faculty)
- Suzanne T Mastin (Other Faculty)
- Tan-Lucien Mohammed MD (Director)
- Dhanashree Rajderkar MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-515, 8AM to 5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)
Radiology - Pediatric
RAD E 8 | 4th Year Elective | Radiology | Clinical Science

Prerequisites
None

Course Description
Course Goals: To provide exposure to a wide range of activities/procedures; To become familiar with imaging/clinical activities; To learn to use radiologists as consultants; to become familiar with issues of cost containment

Course Faculty and Staff
- Brenda Tieden (Course Staff)
- Jonathan L Williams MD, MBA (Other Faculty)
- Rob Dubuisson MD (Other Faculty)
- Dhanashree Rajderkar MD (Other Faculty)
- Tan-Lucien Mohammed MD (Director)
- Priya Sharma MD (Other Faculty)
- Ibrahim Tuna MD (Other Faculty)

Meeting Place and Time
Department of Radiology, Room G-515, 8AM-5PM; Mon-Fri

Course Materials
Students will be provided with access to select teaching files, suggested reading material, and websites (to include learning modules)

Religion, Culture and Medicine
CM E 30 | 4th Year Elective | Community Health and Family Medicine | Basic Science

Prerequisites
Independent study. Must have course director’s prior approval.

Course Description
COURSE GOALS: The goals of this course broadly include both practical aspects of medical practice in which cultural and/or religious issues arise, as well as substantive issues in which
religious and/or cultural traditions and identity interact with an individual's medical practice or medicine as a social institution and cultural phenomenon in its own right. The course is sufficiently flexible for students to spend some of their time and efforts on topics of particular individual interest as well as exposure to diverse perspectives.

**Course Faculty and Staff**

- William L Allen JD (Director)
- Bernie Amaro (Course Staff)

**Meeting Place and Time**

TBA

**Course Materials**

Selected books, journal articles, films and videos, or websites.

**Additional Information**

Project required.

**Reproductive Endocrinology and Infertility**

**OBG E 2 | 4th Year Elective | Obstetrics and Gynecology | Clinical Science**

**Prerequisites**

Successful completion of 3rd year OB/GYN rotation.

***NOTE*** - Rotation must be approved and coordinated at least 2 weeks in advance with Dr. Alice Rhoton-Vlasak.

**Course Description**

Course is appropriate for students planning on a future career in obstetrics and gynecology as well as students interested in women's health issues relevant to future careers in family practice, internal medicine, pediatrics and surgery.

1. Exposure to the evaluation, diagnosis and treatment of a wide range of clinical endocrine problems in the female.
2. Exposure to principles used in the evaluation and treatment of infertile couples.
3. Exposure to the application of current methods available for family planning and their management in clinical practice.
4. Exposure to basic principles of gamete handling and sperm micromanipulation in the Human Gamete Laboratory.
5. Exposure to the role of endocrine factors in the management of abnormal uterine bleeding, endometriosis, osteoporosis, and uterine fibroids.

**Course Faculty and Staff**

- Alice S Rhoton-Vlasak MD (Director)
- Stan Williams MD (Other Faculty)
- Gregory Christman MD (Other Faculty)
- Cynthia Puckett (Course Staff)

**Meeting Place and Time**

Schedule tailored to the student. Various meeting places (transportation needed); 1. Reproductive medicine at Springhill 2. Women's Health Group at the Medical Plaza 3. FloridaSurgery Center and Shands at UF

**Course Materials**


**Additional Information**

Final grade is determined as follows:

Written evaluations from faculty and residents based on the competencies described below = 70%.

Oral presentation on REI Topic of your choice = 30%

**Req. CHFM Inpatient Medicine**

CM R 1 | 4th Year Required | Community Health and Family Medicine | Clinical Science

**Prerequisites**

Satisfactory completion of third year medical school - 4th year UF medical student

**Course Description**

COURSE GOALS: This course fulfills the advanced senior medicine requirement. The students will serve as acting interns under supervision of a supervising resident and attending physician from the Department of Community Health and Family Medicine. In the rotation, the externs will develop assessment and management skills needed for the care of general medical problems through bedside teaching, didactic lectures and academic conferences.

**Course Faculty and Staff**
Meeting Place and Time

Prior to beginning the rotation, please contact Tina Engstrom, 265-9544, Box 100383-Family Medicine at Main, to get the time and location as well as the name of the Senior Resident when beginning rotation.

Course Materials

Comprehensive Medical Textbook

Req. Emergency Medicine - Career Track - Shands at Gainesville

EMD R2 | 4th Year Required | Emergency Medicine | Clinical Science

Prerequisites

The 4th year UF medical student must have interest in pursuing residency training in Emergency Medicine. Students need to demonstrate appropriate clinical skills by successfully completing the 3rd year core clerkships (including IM, Surgery, OB/Gyn, Pediatrics). It is not necessary to complete an EM rotation prior to this course.

Course Description

Goals and Objectives This rotation is designed for the student interested in emergency medicine as a career. As emergency medicine has grown into it's role as a medical specialty it has become clear that there are certain attributes and skills needed to assure success and satisfaction in this field. While all physicians need training in the handling of basic medical emergencies, this is generally covered in the standard 4th year emergency medicine rotation. Students interested in making a career of emergency medicine need exposure to other aspects of life as an emergency physician. These include the rigors of shift work, the communication skills necessary for transference of care, the skill set needed to make rapid patient dispositions, the importance of concise ED case presentations, the ability to manage patients simultaneously and the appropriate use of consultation services. This rotation also provides opportunities to gain advice on how to plan for residency; evaluation of programs, the application process, interviewing, internship survival, etc. This rotation affords students the opportunity to: 1) practice recognition of “sick” vs “not-sick” patients 2) refine skills in stabilization of acute life threatening emergencies 3) enhance skills at developing “complaint-based” differential diagnoses 4) experience the continuum of initial evaluation, stabilization, treatment and disposition of the acutely ill or injured patient 5) foster understanding of the complimentary interactions between the Emergency Department (ED) and the rest of the health care system 6) refine ED case presentation skills 7) develop a mini-mentorship
relationship with an academic emergency physician Curriculum Shift schedules - Schedules will be modeled after the EM intern schedules. Expectations include making expedited, efficient and appropriate presentations, differentiating accurately between sick and not-sick patients, creating well rounded differential diagnosis lists and forming, as well as, supporting a plan of evaluation and treatment. Students will be expected to prepare and present a formal case presentation during the rotation based on an ED case. Efficiency, conciseness and completeness of the presentation, charting and handling of the question session will be graded. Active participation in our monthly journal club is expected. Examinations - Students will continue to take the multiple choice "end-of-rotation" test as administered to all required clerkship rotators. Instructional Labs - Students will participate in procedure labs to learn and refine skills in suturing/wound management, airway management, splinting, central venous access, ultrasound, etc. These labs will involve the use of hi-fidelity simulation mannequins. Students have the opportunity to develop diagnostic and treatment plan skills in simulated patient encounters. Some of these will also take place in small group sessions with oral board type cases. Some will take place using hi-fidelity patient simulators. The cases will cover commonly encountered high-risk patient complaints such as chest pain, short of breath, altered level of consciousness, multiple trauma, etc

Course Faculty and Staff

- Everett Dougherty (Course Staff)
- Matthew Ryan MD, PhD (Director)
- Amy Smith (Course Staff)

Meeting Place and Time

Orientation: First Monday of the rotation. Time and Location TBA. Students will be contacted via email.

Course Materials

Tintinalli’s Emergency Medicine: A Comprehensive Study Guide, 6th edition (provided for the student); Lecture Powerpoint Presentations available on the intranet; Emergency Medicine's Top Clinical Problems (provided for the student) O. John Ma & David Cline. Emergency Medicine Manual 6th Ed. 2004. McGraw Hill. Copy provided for use during rotation. Bound Readings: Sub-I students will be given a copy of reading including: 1) history of emergency medicine as a specialty 2) proper ED case presentation technique 3) preparing for residency/choosing a residency/interviewing 4) opportunities in EM (fellowships, etc) 5) ED charting 6) Other

Additional Information

This is the rotation to take if you want to be evaluated as a potential candidate for Emergency Medicine residency training. Students requesting a standardized letter of recommendation (SLOR) for EM-residency applications should enroll in this rotation. This
rotation fulfills all the requirements of, and substitutes for, the standard "required 4th year emergency medicine rotation". Student will be tasked with patient care responsibilities and be expected to function at the Sub-I level. This rotation does not fulfill The "sub-internship" requirement of the 4th year. You must still complete a "sub-internship" in Family Medicine, Internal Medicine or Pediatrics.

Rotation Shift Locations and Quantities: UF Shands Adult ED- 13 shifts, UF Shands Pediatric ED - 2 shifts; EMS Ride Along - 1 shift; 5 hours of didactic sessions/week; 3 hours of simulation sessions/week; journal club. Clinical shifts are 8 hours.

**Req. Emergency Medicine - Shands at Gainesville**

**EMD R 1 | 4th Year Required | Emergency Medicine | Clinical Science**

**Prerequisites**

4th year UF medical student

**Course Description**

At the end of a 4-week rotation, 4th year medical students should be able to do the following:

1. Demonstrate the Emergency Medicine "ABC's" approach in the evaluation of emergency patients.
2. Perform an initial evaluation of the undifferentiated Emergency Medicine patient, with focus on stabilization of acutely ill patients
3. Perform an evaluation of the trauma patient with initial primary survey, addressing life-threatening problems first, followed by the secondary survey.
4. Participate in prehospital care and be able to describe the structure, function and limitations of the EMS system.
5. Manage patients with toxic exposures in general, and be able to recognize and treat common overdoses from reading and lecture assignments.
6. Evaluate and treat common environmental illnesses.
7. Develop and improve procedure skills by performing IV catheter insertion, urinary catheter insertion, suturing, and other necessary invasive procedures.
8. Function effectively in the Emergency Department working as a member of Emergency Department team, establish appropriate consult and referrals and efficiently use emergency medicine resources.

**Course Faculty and Staff**

- **Everett Dougherty** (Course Staff)
- **Matthew Ryan MD, PhD** (Director)
- **Amy Smith** (Course Staff)

**Meeting Place and Time**
Orientation: First Monday of the rotation, Gainesville Time and Place TBA. Students will be contacted via email.

Course Materials

Additional Information
Rotation Shift Locations and Quantities: UF Shands Adult ED - 13 shifts, UF Shands Pediatric ED - 2 shifts; EMS Ride Along - 1 shift; 5 hours of didactic sessions/week; 3 hours of simulation sessions/week; journal club. Clinical shifts are 8 hours.

Req. Emergency Medicine-Career Track-Jacksonville
EMD R 2J | 4th Year Required | Emergency Medicine | Clinical Science

Prerequisites
4th year medical student pursuing residency training in Emergency Medicine
Students would need to successfully complete the 3rd year core clerkships (including IM, Surgery, OB/Gyn, Pediatrics). It is not be necessary to complete a basic EM rotation prior to "career-track emergency medicine".

Course Description
Goals and Objectives
This rotation is designed for the student interested in emergency medicine as a career. As emergency medicine has grown into it's role as a medical specialty it has become clear that there are certain attributes and skills needed to assure success and satisfaction in this field. While all physicians need training in the handling of basis medical emergencies, this is generally covered in the standard 4th year emergency medicine rotation. Students interested in making a career of emergency medicine need exposure to other aspects of life as an emergency physician. These include the rigors of shift work, the communication skills necessary for transference of care, the skill set needed to make rapid patient dispositions, the importance of concise ED case presentations, the ability to manage patients simultaneously and the appropriate use of consultation services. This rotation also provides opportunities to gain advice on how to plan for residency; evaluation of programs, the application process, interviewing, internship survival, etc.
This rotation affords students the opportunity to:
1) practice recognition of "sick" vs "not-sick" patients
2) refine skills in stabilization of acute life threatening emergencies
3) enhance skills at developing "complaint-based" differential diagnoses
4) experience the continuum of initial evaluation, stabilization, treatment and disposition of the acutely ill or injured patient
5) foster understanding of the complimentary interactions between the Emergency Department (ED) and the rest of the health care system
6) refine ED case presentation skills
7) develop a mini-mentorship relationship with an academic emergency physician.

Curriculum:
Shift schedules - Schedules will be modeled after the EM intern and resident schedules. Students will perform 8 hour shifts (mix of days, nights and weekends). The schedules will allow students to spend shifts with varied ED educational faculty. Shifts will be a mix of Resus/Trauma, Emergency Critical Care, Intermediate/Flex care and Pediatric ED. Students will complete one shift with an assigned Jacksonville Fire Rescue station, scheduled by the student.

Presentations - Expedited and efficient (but complete) case presentations are a core skill of competent emergency physicians. Students will be expected to prepare a formal case presentation by the end of the rotation. This case will be accompanied by a formal written ED-chart. The students will be required to present the case at a conference during the third week of the rotation in front of educational staff, residents and attendings. They will then field questions on the case, as if they were signing the case out to a colleague. Efficiency, conciseness and completeness of the presentation, charting and handling of the question session will be graded.

Journal Club/Didactic Lectures – Didactic lectures and SIM sessions will focus on common topics in EM (approach to CP, SOB, AMS, trauma, etc), or topics often not covered elsewhere in the COM curriculum (environmental emergencies, toxicology, etc). Our monthly journal club is open for attendance for the students. Articles are chosen to help learners develop skills in critically appraising the literature, and for timely relevance to EM. Articles are presented by residents, but one paper may be evaluated by, and presented by, the sub-I students. Faculty mentors will aid the sub-I students in evaluating the paper prior to presentation at the formal journal club. This will further provide interaction time between residents and EM-bound students.

Examinations - SAEMTESTS.org- The Society for Academic Emergency Medicine has developed a web-based set of EM-subject tests. Sub-I students during the rotation will perform these tests.

Students will take the NBME EM ACE (shelf exam) the last day of the rotation.
Instructional Labs - Students will participate in procedure labs to learn and refine skills in suturing/wound management, airway management, splinting, central venous access, ultrasound, etc. These labs will involve the use of hi-fidelity simulation mannequins.
Simulated Patient Encounters - Students will get the opportunity to develop diagnostic and treatment plan skills in simulated patient encounters. Some of these will take place in small group sessions with oral board type cases. Some will take place using hi-fidelity patient simulators. The cases will cover commonly encountered high-risk patient complaints such as chest pain, short of breath, altered level of consciousness, multiple trauma, etc.
Course Faculty and Staff

- Debra Eurom (Course Staff)
- Thomas K Morrissey MD, PhD (Director)
- Dani Brown (Course Staff)

Meeting Place and Time

Orientation: first Monday of the rotation. Jacksonville - 8:30 am in the conference room of the Emergency Medicine Administrative offices; 1st floor; Shell Building. Time and place may change. Students will be notified by email ahead of time.

Course Materials

1) http://cdemcurriculum.com/. Interactive web-based EM curriculum
2) http://www.ufjaxem.com/clerkship/ Includes suggested blogs and clerkship calendar
3) http://saemtests.org/ Students will be provided with login/password for practice exams
   a) history of emergency medicine as a specialty
   b) proper ED case presentation technique
   c) preparing for residency/choosing a residency/interviewing
   d) opportunities in EM (fellowships, etc)

Additional Information

This is the rotation to take if you want to be evaluated as a potential candidate for Emergency Medicine residency training. Students requesting a standardized letter of recommendation (SLOR) for EM-residency applications should enroll in this rotation. This rotation fulfills all the requirements of, and substitutes for, the standard "required 4th year emergency medicine rotation". Student will be tasked with patient care responsibilities and be expected to function at the Sub-I level. This rotation does not fulfill the "sub-internship" requirement of the 4th year. You must still complete a "sub-internship" in Family Medicine, Internal Medicine or Pediatrics.

Req. Emergency Medicine-Jacksonville

EMD R 1J | 4th Year Required | Emergency Medicine | Clinical Science

Prerequisites

MS3 clinical curriculum (at least Internal Medicine and Surgery)

Course Description

COURSE GOALS:
At the end of a 4-week rotation, a 4th year medical student should be able to do the following:
1. Demonstrate the Emergency Medicine “ABC’s” approach in the evaluation of emergency patients.
2. Perform an initial evaluation of the undifferentiated Emergency Medicine patient, with focus on stabilization of acutely ill patients, and function as a member of Emergency Department team.
3. Be able to perform an evaluation of the trauma patient with initial primary survey, addressing life-threatening problems first, followed by the secondary survey.
4. Participate in prehospital care and be able to describe the structure, function and limitations of the EMS system.
5. Be able to manage patients with toxic exposures in general, and be able to recognize and treat common overdoses from reading and lecture assignments.
6. Be able to evaluate and treat common environmental illnesses.
7. Work to sharpen procedure skills by performing IV catheter insertion, urinary catheter insertion, suturing, and other necessary invasive procedures.
8. Recognize the limitations of Emergency Department, establishing appropriate consult and referral skills.

Course Faculty and Staff

- Debra Eurom (Course Staff)
- Thomas K Morrissey MD, PhD (Director)
- Dani Brown (Course Staff)

Meeting Place and Time

Orientation: first Monday of the rotation.
Jacksonville - 8:30 am in the conference room of the Emergency Medicine Administrative offices; 1st floor; Clinical Center. Time and place subject to change. Students will be notified by email ahead of time.

Course Materials

CDEMCurriculum.com
http://www.ufjaxem.com/clerkship/ Recommended reading and clerkship calendar
www.saemtests.org Login and password provided, access to practice exams

Req. General Medicine - Jacksonville

MED R 1J | 4th Year Required | Internal Medicine | Clinical Science

Prerequisites

4th year UF medical student

Course Description
Students will be involved in inpatient care while on the General Medicine service. They will serve on the medical wards as acting interns (externs) under the supervision of residents and attending physicians from the Department of Medicine. Objectives of the externship are to learn to perform a thorough patient evaluation, formulate an extensive differential diagnosis, effectively utilize consultative services, perform diagnostic procedures and implement a therapeutic regimen for the patients under their care.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Carlos Palacio MD (Director)
- Kathy Pipkins (Course Staff)
- Lavetta Jones (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time

LRC 4th Floor, GME Office (8:00 AM)

Course Materials

Comprehensive textbook in Internal Medicine; Online access to library database resources.

Req. Medicine - Shands/Cardiology

MED R 1C | 4th Year Required | Internal Medicine | Clinical Science

Prerequisites

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description

Develop ability to function as an acting intern which incorporates assessment and management of general medical problems. Develop ability to work as a member of the health care team to provide patient care.

Course Faculty and Staff

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

Meeting Place and Time
Students will meet their teams for rounds at 8AM on the first day of the rotation. Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

**Course Materials**

Please refer to the 4th Year link on our Clerkship website at: www.medicine.ufl.edu/3rd_year_clerkship

**Additional Information**

METHODS OF EVALUATION: Attending and resident submit a written evaluation of the student's performance at the end of the four week period. Students will be evaluated based on their performance as acting interns. The basis of the evaluation will be interaction with patients, medical knowledge, clinical judgment, quality of medical histories and physical examinations, humanistic qualities, professional attitudes and behavior, and demonstrated ethical standards. An unsatisfactory evaluation can result from failure to meet an acceptable norm in any of these areas.

**Req. Medicine - Shands/General Hospitalist Service**

MED R 1GM | 4th Year Required | Internal Medicine | Clinical Science

**Prerequisites**

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

**Course Description**

The subinternship in Medicine emphasizes building on skills learned in the third year with an emphasis on management of patients, disease processes, and time. Cross cover and training in the management of common medical emergencies encountered during an internship are key experiences. Acting interns are given essentially the same responsibility as interns with additional oversight by a resident.

The hospitalist (Green Medicine) service is comprised of two faculty hospitalists who rotate one week on and one week off and two residents. There are no interns and rounds are less structured which allows particularly motivated students more autonomy and the ability to function as the intern for the team.

**Course Faculty and Staff**

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

**Meeting Place and Time**
Students will meet their teams for rounds at 8AM on the first day of the rotation. Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

**Course Materials**

Please refer to the 4th Year link on our Clerkship website at:

www.medicine.ufl.edu/3rd_year_clerkship

**Req. Medicine - Shands/General Service**

MED R 1 | 4th Year Required | Internal Medicine | Clinical Science

**Prerequisites**

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

**Course Description**

The subinternship in Medicine emphasizes building on skills learned in the third year with an emphasis on management of patients, disease processes, and time. Cross cover and training in the management of common medical emergencies encountered during an internship are key experiences. Acting interns are given essentially the same responsibility as interns with additional oversight by a resident.

**Course Faculty and Staff**

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

**Meeting Place and Time**

Students will meet their teams for rounds at 8AM on the first day of the rotation. Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

**Course Materials**

Please refer to the 4th Year link on our Clerkship website at:

www.medicine.ufl.edu/3rd_year_clerkship

**Req. Medicine - Shands/GI**

MED R 1G | 4th Year Required | Internal Medicine | Clinical Science
**Prerequisites**

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

**Course Description**

The subinternship in Medicine emphasizes building on skills learned in the third year with an emphasis on management of patients, disease processes, and time. Cross cover and training in the management of common medical emergencies encountered during an internship are key experiences. Acting interns are given essentially the same responsibility as interns with additional oversight by a resident.

**Course Faculty and Staff**

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

**Meeting Place and Time**

Students will meet their teams for rounds at 8AM on the first day of the rotation. Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

**Course Materials**

Please refer to the 4th Year link on our Clerkship website at: www.medicine.ufl.edu/3rd_year_clerkship

**Additional Information**

METHODS OF EVALUATION: Attending and resident submit a written evaluation of the student's performance at the end of the four week period. Students will be evaluated based on their performance as acting interns. The basis of the evaluation will be interaction with patients, medical knowledge, clinical judgement, quality of medical histories and physical examinations, humanistic qualities, professional attitudes and behavior, and demonstrated ethical standards. An unsatisfactory evaluation can result from failure to meet an acceptable norm in any of these areas.

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**Req. Medicine - Shands/Hematology Oncology**

MED R 1H | 4th Year Required | Internal Medicine | Clinical Science

**Prerequisites**

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

**Course Description**
The subinternship in Medicine emphasizes building on skills learned in the third year with an emphasis on management of patients, disease processes, and time. Cross cover and training in the management of common medical emergencies encountered during an internship are key experiences. Acting interns are given essentially the same responsibility as interns with additional oversight by a resident.

**Course Faculty and Staff**

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

**Meeting Place and Time**

Students will meet their teams for rounds at 8AM on the first day of the rotation. Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

**Course Materials**

Please refer to the 4th Year link on our Clerkship website at: www.medicine.ufl.edu/3rd_year_clerkship

**Additional Information**

METHODS OF EVALUATION: Attending and resident submit a written evaluation of the student's performance at the end of the four week period. Students will be evaluated based on their performance as acting interns. The basis of the evaluation will be interaction with patients, medical knowledge, clinical judgement, quality of medical histories and physical examinations, humanistic qualities, professional attitudes and behavior, and demonstrated ethical standards. An unsatisfactory evaluation can result from failure to meet an acceptable norm in any of these areas.

**Req. Medicine - VA**

MED R 2 | 4th Year Required | Internal Medicine | Clinical Science

**Prerequisites**

Satisfactory completion of third year Medical Clerkship - 4th year UF medical student

**Course Description**

The subinternship in Medicine emphasizes building on skills learned in the third year with an emphasis on management of patients, disease processes, and time. Cross cover and training in the management of common medical emergencies encountered during an
internship are key experiences. Acting interns are given essentially the same responsibility as interns with additional oversight by a resident.

Course Faculty and Staff

- Kathy Pipkins (Course Staff)
- L. Chad Hood MD (Director)

Meeting Place and Time

Students will meet on their assigned wards at 8:00am on the first day of the rotation (Monday). Students will be contacted by email regarding the time and place for orientation with Dr. Harrell on the first Monday of the rotation.

Course Materials

Please refer to the 4th Year link on our Clerkship website at: www.medicine.ufl.edu/3rd_year_clerkship

Req. Pediatrics - Shands General

PED R 1 | 4th Year Required | Pediatrics | Clinical Science

Prerequisites

Satisfactory completion of third year pediatric clerkship. - 4th year UF medical student

Course Description

COURSE GOALS: To learn comprehensive management of pediatric inpatients by assuming primary responsibility for their care including the history and physical examination, formulating independent assessments and plans, writing orders and arranging consultation and follow-up care. The student will function as an acting-intern and will be supervised by the attending and the senior resident. There will also be opportunities for procedure skills labs and individualized meetings with the course director to discuss pertinent pediatric topics. The objective of this clerkship is to prepare the interested student for an internship in pediatrics.

Course Faculty and Staff

- Genie Kahn Beasley MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Pediatrics Inpatient Service, Shands Hospital at the University of Florida, Gainesville

Course Materials
Additional Information

You will act as an intern on one of three of the inpatient pediatric teams. You will receive a schedule and more information before you begin from the course director and the chief residents.

Req. Pediatrics - Shands NICU

PED R 2 | 4th Year Required | Pediatrics | Clinical Science

Prerequisites

Satisfactory completion of third year pediatric clerkship - 4th year UF medical student

Course Description

COURSE GOALS: To learn comprehensive management of ill neonates by assuming primary responsibility for their care including the history and physical examination, writing orders and arranging consultation and follow-up care. The student will function as an acting-intern and will be supervised by the attending and the senior resident. There will also be opportunities for procedure skills labs and individualized meetings with the course director to discuss pertinent pediatric topics. The objective of this clerkship is to prepare the interested student for an internship in pediatrics.

Course Faculty and Staff

- David J Burchfield MD (Other Faculty)
- Genie Kahn Beasley MD (Director)
- Meghan Lopez (Course Staff)

Meeting Place and Time

Neonatal Intensive Care Unit

Course Materials

Nelson Textbook of Pediatric or Oski Principles and Practice of Pediatrics, pertinent journal and Internet resources

Req. Pediatrics-Team A-Jacksonville (Wolfson's)
PED R 1J | 4th Year Required | Pediatrics | Clinical Science

Prerequisites
Satisfactory completion of third year pediatric clerkship, 4th year medical student

Course Description
Team A = General Pediatrics

COURSE GOALS: To learn comprehensive management of pediatric inpatients by assuming primary responsibility for their care including the history and physical examination, writing orders and arranging consultation and follow-up care.

Course Faculty and Staff
- Frank J Genuardi MD, MPH (Director)
- Deborah Abram MD (Other Faculty)
- Joanne Adkison MD (Other Faculty)
- Suzanne Bilyeu MD (Other Faculty)
- Kuo “Jimmy” Chen MD (Other Faculty)
- Clifford David MD, MPH (Other Faculty)
- Deval Patel MD (Other Faculty)
- Mark Toney MD (Other Faculty)
- Jose Zayas DO (Other Faculty)
- Nedda Salehi MD (Other Faculty)
- Akshata Hopkins MD (Other Faculty)
- Chelsea Rountree (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
Pediatric Education Office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville
8 a.m.
(student will report to Wolfson Children's Hospital after checking in)

Course Materials
Nelson Textbook of Pediatric or Oski Principles and Practice of Pediatrics, the Harriet Lane Handbook, Bright Futures Pocket guide, pertinent journal and Internet resources

Additional Information
You will act as an intern on one of the pediatric teams. You will receive a schedule and more information before you begin from the course director and chief residents.
Req. Pediatrics-Team B-Jacksonville (Wolfson's)
PED R 2J | 4th Year Required | Pediatrics | Clinical Science

Prerequisites
Satisfactory completion of third year pediatric clerkship, 4th year medical student

Course Description
Team B = Hematology/Oncology

COURSE GOALS: To learn comprehensive management of pediatric inpatients by assuming primary responsibility for their care including the history and physical examination, writing orders and arranging consultation and follow-up care.

Course Faculty and Staff
- Robert F. English MD (Other Faculty)
- Frank J Genuardi MD, MPH (Director)
- Eric Sandler MD (Other Faculty)
- Robert Olney MD (Other Faculty)
- Chelsea Rountree (Course Staff)
- Dani Brown (Course Staff)

Meeting Place and Time
Pediatric Education office, 841 Prudential Drive, Suite 1130 - 11th floor, Aetna Building, Jacksonville 32207
8 a.m.
(Student will report to Wolfson Children's Hospital after checking in)

Course Materials
Nelson Textbook of Pediatric or Oski Principles and Practice of Pediatrics, the Harriet Lane Handbook, Bright Futures Pocket Guide, pertinent journal and Internet resources

Additional Information
You will act as an intern on one of the pediatric teams. You will receive a schedule and more information before you begin from the course director and chief residents.

Required General Surgery/Acute Care
SUR R 1 | 4th Year Required | Surgery | Clinical Science

Prerequisites
Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description

The subinternship in General Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend Department of Surgery conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. We expect that acting interns will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of Acute Care Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

The emphasis will be on active, rather than passive, educational methods, and preceptors will stress independent, self-directed learning.

Acting interns will follow patients from the operating room to the ward and participate in the full spectrum of perioperative care. Acting interns are given essentially the same responsibility as interns with additional oversight by a team of surgery residents and faculty.

Course Faculty and Staff

- Michele Silver (Course Staff)
- Chasen Croft MD (Director)

Meeting Place and Time

Students will meet their teams for rounds at 5:30am on the first day of the rotation. Students are advised to contact the Surgery Education Office on the Wednesday before the start of the rotation for reporting information.

Course Materials

Please refer to the 4th Year link on our Clerkship website at:
www.surgery.ufl.edu/4thyear_required_reading

Additional Information
Clinical evaluation worth 90 points.
Presentation worth 10 points.

**Required General Surgery/Colorectal**
SUR R 2 | 4th Year Required | Surgery | Clinical Science

**Prerequisites**
Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

**Course Description**
The subinternship in General Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend Department of Surgery conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. We expect that acting interns will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of Colorectal Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

The emphasis will be on active, rather than passive, educational methods, and preceptors will stress independent, self-directed learning.
Acting interns will follow patients from the operating room to the ward and participate in the full spectrum of perioperative care. Acting interns are given essentially the same responsibility as interns with additional oversight by a team of surgery residents and faculty.

**Course Faculty and Staff**

- Michele Silver (Course Staff)
- Sanda Tan MD, PhD (Director)

**Meeting Place and Time**
Students will meet their teams for rounds at 6:00am on the first day of the rotation. Students should contact the Surgery Education Office a week in advance for reporting information.

Course Materials
Please refer to the 4th Year link on our Clerkship website at: www.surgery.ufl.edu/4thyear_required_reading

Additional Information
Clinical evaluation worth 90 points.
Presentation worth 10 points.

Required General Surgery/Pediatric Surgery
SUR R 4 | 4th Year Required | Surgery | Clinical Science

Prerequisites
Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description
The subinternship in General Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend Department of Surgery conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. We expect that acting interns will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of Pediatric Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

Course Faculty and Staff
- Michele Silver (Course Staff)
- Saleem Islam MD (Director)
Meeting Place and Time

Students will meet their teams for rounds at 6:00am on the first day of the rotation. Students should contact the Surgery Education Office a week in advance for reporting information.

Course Materials

Please refer to the 4th Year link on our Clerkship website at: www.surgery.ufl.edu/4thyear_required_reading

Additional Information

Clinical evaluation worth 90 points.
Presentation worth 10 points.

Required General Surgery/VA General

SUR R 3 | 4th Year Required | Surgery | Clinical Science

Prerequisites

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description

The subinternship in General Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend Department of Surgery conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. We expect that acting interns will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of General Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

The emphasis will be on active, rather than passive, educational methods, and preceptors will stress independent, self-directed learning.
Acting interns will follow patients from the operating room to the ward and participate in the full spectrum of perioperative care. Acting interns are given essentially the same responsibility as interns with additional oversight by a team of surgery residents and faculty.

Course Faculty and Staff

- Michele Silver (Course Staff)
- Anthony McDonald MD (Director)

Meeting Place and Time

Students will meet their teams for rounds at 6:00am on the first day of the rotation. Students should contact the Surgery Education Office a week in advance for reporting information.

Course Materials

Please refer to the 4th Year link on our Clerkship website at:
www.surgery.ufl.edu/4thyear_required_reading

Additional Information

Clinical evaluation worth 90 points.
Presentation worth 10 points.

Required General Surgery/Vascular Surgery

SUR R 5 | 4th Year Required | Surgery | Clinical Science

Prerequisites

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description

The subinternship in General Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend Department of Surgery conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. We expect that acting interns will prepare for
cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of Vascular Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced.

The emphasis will be on active, rather than passive, educational methods, and preceptors will stress independent, self-directed learning. Acting interns will follow patients from the operating room to the ward and participate in the full spectrum of perioperative care. Acting interns are given essentially the same responsibility as interns with additional oversight by a team of surgery residents and faculty.

Course Faculty and Staff

- Michele Silver (Course Staff)
- Robert J Feezor MD (Director)

Meeting Place and Time

Students will meet their teams for rounds at 5:30 am on the first day of the rotation. Students should contact the Surgery Education Office a week in advance for reporting information.

Course Materials

Please refer to the 4th Year link on our Clerkship website at:
www.surgery.ufl.edu/4thyear_required_reading

Additional Information

Clinical evaluation worth 90 points.
Presentation worth 10 points.

Required Surgery/Pancreas and Biliary Surgery

SUR R 6 | 4th Year Required | Surgery | Clinical Science

Prerequisites

Satisfactory completion of third year Medicine Clerkship - 4th year UF medical student

Course Description

The subinternship in Pancreas and Biliary Surgery emphasizes building on skills learned in the third year with an emphasis on management of the perioperative patient. The overall purpose of this advanced surgical elective is to provide a faculty-mentored, learner-centered surgical experience for senior students with surgery as a career goal. He or she will become
aware of the daily responsibilities of the general surgery intern, including education of 3rd year medical students and perioperative care of the surgical patient. Each student will participate in patient care overnight (5 nights) to more fully learn about the role of the intern including, but not limited to, the process of calling up the chain and experiencing more autonomy with regard to patient care. Students will be expected to attend General Surgery related conferences including division-specific educational session, Morbidity and Mortality Conference and Surgical Grand Rounds. Furthermore, the student will be assisting in the Operating Rooms and seeing patients in clinic. Although the curriculum is flexible, it is expected that the student will prepare for cases and conferences as any other member of the team, and will be held accountable for these. At the conclusion of the 4-week rotation, the student will present a 30-minute slide presentation on some aspect of Pancreas and Biliary Surgery in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based, and articles from accredited journals should be referenced. The emphasis will be on active, rather than passive, educational methods, and preceptors will stress independent, self-directed learning. Acting interns will follow patients from the operating room to the ward and participate in the full spectrum of perioperative care. Acting interns are given essentially the same responsibility as interns with additional oversight by a team of surgery residents and faculty.

Course Faculty and Staff

- Jose Trevino MD (Director)
- Michele Silver (Course Staff)

Meeting Place and Time

Students will meet their teams for rounds at 6AM on the first day of the rotation unless directed otherwise. Students will be contacted by email with information about where to locate their clinical team.

Course Materials

Provided on start of the rotation

Rheumatology and Clinical Immunology

MED E 8 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites

Completion of Internal Medicine Core Rotation

Course Description
The student will be exposed to clinical rheumatology in both the inpatient and the outpatient setting; with an emphasis on the latter. Most of the interactions occur in the clinic with direct one-on-one teaching. Students will typically see patients by themselves and present to faculty. Didactic learning experiences are available and include a monthly musculoskeletal radiology conference; a weekly clinical conference and a monthly research journal club. In addition; the student may attend learning sessions with the fellows; and can round with the inpatient service. The rotation utilizes clinical resources at both Shands at UF and the VA Hospital.

Course Faculty and Staff

- Westley H Reeves (Other Faculty)
- N. Lawrence Edwards MD (Other Faculty)
- Paulette C Hahn MD (Other Faculty)
- Roland Staud (Other Faculty)
- Michael R Bubb MD (Other Faculty)
- Eric S Sobel MD (Director)
- Christine Dortch (Course Staff)

Meeting Place and Time

Follow the emailed schedule. Call the Rheumatology Academic Office if you do not receive an email 352-273-8203.

Course Materials

Primer on the Rheumatic Diseases

Additional Information

Non-UF students must apply through VSAS.

Rural Preceptorship

CM E 4 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

Prerequisites

Fourth Year Medical Student

"Students must prearrange this rotation with the Course Director prior to scheduling."

Course Description

"A wide variety of sites are available, including the opportunity to return to the office of the student's first year preceptor."
Approval to participate in this elective must be obtained from the course director prior to scheduling.

COURSE GOALS: To participate in a general or specialty practice in a rural community. The student will live in the community during this rotation and participate in all aspects of his/her preceptors practice. Housing and transportation provided through the Univ. of FL. AHEC office.

LIST OF PRECEPTORS:

CARDIOLOGY

Joseph Cherian, M.D., F.A.C.C. - Milton, FL,
Practice is 60% cardiology, 40% Internal Medicine. Office practice.
Includes: electro/echocardiograms, doppler, color flow doppler, stress tests, holter monitors, pacemakers.

Angel Morrobel, M.D. - Sacred Heart Medical Group, Miramar Beach, FL
Group practice associated w/ Sacred Heart Hospital on the Emerald Coast Echocardiograms, transesphogal echos, nuclear stress tests, cardiac catheterization, pacemaker analysis.

DERMATOLOGY

Charles Trapp, M.D. - Emerald Coast Dermatology, Crestview, Destin, Fort Walton Beach FL
Group practice, Focus on skin cancer detection, Active Mohs Micrographic Surgery, General Dermatology, Outpatient cutaneous surgery.

FAMILY PRACTICE

William Belk, M.D. - Gulf Coast Physician Partners

Jerry Boland, M.D. - Taylor County Public Health Unit.
Dr. Boland is the director of the Taylor County Public Health Unit in Perry, Florida. He practices at the health unit in this remote rural county. This experience would be particularly helpful to those interested in public health.

John Johnson, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL
Very busy group practice, interdisciplinary w/ ARNPs, PAs and specialists. Inpatient/Nursing Home, Diabetes Clinic.

Coy Irvin, M.D. - Gulf Coast Physician Partners

Jonathan Fountain, M.D. - Milton, FL
Solo practice, UF Graduate

Dennis Mayeaux, M.D. - Gulf Coast Physician Partners, Milton, FL
Very busy group practice, Clerkship Director for Family Practice FSU COM, Patients rural/underserved,40 patients per day, Huge Gator Fan, Inpatient.
Lance Raney, M.D. - Century Medical Center, Century, FL  
Extremely rural site for minority and underserved patients, Small hospital.

George Smith, M.D. - Escambia Community Clinics, Pensacola, FL  
Federally Qualified Health Center, Dr. Smith is the Medical Director, Primary training site for 3rd/4th year FSU medical students, Outpatient ambulatory care center, Urgent care facility, extended hours. Facility has full x-ray and lab services. Patients are primarily indigent/underserved. Clinic provides acute/urgent care services.

INTERNAL MEDICINE

Garry Banks, M.D. - Niceville, Destin, FL  
Solo practice, UF Graduate, Sees a large number of diabetic patients, HUGE Gator Fan, Inpatient

Wayne Campbell, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL  
Very busy group practice, large mix of patients, interdisciplinary w/ ARNPs, PAs and specialists.

Fulton DeFour, M.D. - West Florida Hospital, Pensacola, FL  
Hospitalist and experienced preceptor

Michael Foley, M.D. - Crestview, FL  
Solo practice, medically underserved and rural population, works late afternoon and evening hours, Inpatient.

Warren Groff, M.D. - Fernandina Beach  
Dr. Groff's office is located in Fernandina Beach which is in the north east corner of Florida. He practices with Dr. Tomlinson, another family practitioner, and Dr. Buford, whose specialty is internal medicine.

Andrew Teklinski, M.D. - Yonge, Law and Teklinski  
Group practice. 5-10 hospital patients per week. Patients are primarily medicare with a lot of medical problems.

Lee Thigpen, M.D. - Sacred Heart Crestview Medical Group, Crestview, FL  
Very busy group practice, large mix of patients, interdisciplinary w/ ARNPs, PAs and specialists, Lipid Specialist, Preventive Medicine, Inpatient

ORTHOPAEDICS/ORTHOPAEDIC SURGERY

Thomas Fox, D.O. - Bluewater Orthopaedics, Niceville, Destin, Crestview, FL  
Busy group practice, Board certified in Orthopaedic Surgery, Sports Medicine, Inpatient.

Michael Gilmore, MD - Panhandle Orthopaedics; Marianna, Florida (850)526-4555 - Clinic 2 to 3 times a week - Surgery 2 to 3 times a week. Housing arranged for students - no weekend call.
OTOLARYNGOLOGY

Charles Grayson, D.O. - Crestview ENT, Crestview, FL
Solo Practice, 40% pediatric, 60% adult.

PEDIATRICS

Bilal Khodr, MD; Perry, Florida

John Van Ostenbridge, M.D. - Emerald Coast Pediatrics, Milton, FL
Very busy practice, Patients rural/underserved, Inpatient.

Corey Wolff, M.D. - The Wolff Center for Child and Adolescent Health, Pensacola, FL
Solo practice.

SURGERY

Dennis Stewart, M.D. - Crestview, FL
Solo Practice, General, trauma, thoracic, vascular, advanced laparoscopic surgical procedures.

Kurt Stockamp, M.D. - Pensacola, FL
Group practice, General Surgery.

Course Faculty and Staff

- Robert L Hatch MD (Director)

Meeting Place and Time

To be arranged.

Course Materials

NA

Additional Information

Approval to participate in this course must be obtained from the course director and the preceptor prior to scheduling.

Senior Urology Clerkship - Jacksonville

SUR E 9J | 4th Year Elective | Urology | Clinical Science

Prerequisites

4th year medical student

Course Description
The Fourth year elective is designed specifically for the student with a serious interest in a residency in urology. The level of responsibility will be the same as a 1st year resident. Students serve as the primary physician under faculty supervision for outpatient clinic and inpatient consultations. Students will be expected to take a more active role in the operating room as well as pre-operative and post-operative care of urologic patients under the direct supervision of the urology staff. Self-education is stressed; but students also attend major departmental conferences. Recommended text for reading is an excellent understanding (i.e. read in preparation) of, "Smith's General Urology," Emil A. Tanagho and Jack McAninch Editors, most current edition is #18 at the time of this updated course description.

Course Faculty and Staff

- Frank J Genuardi MD, MPH (Other Faculty)
- Joseph Costa DO (Other Faculty)
- Christopher Williams MD (Director)
- Eugenia Smith (Course Staff)
- Stephen Mandia MD (Other Faculty)
- Stephanie Harris MD (Co-Director)
- Dani Brown (Course Staff)

Meeting Place and Time

8:00am in Urology Office Suite, 3rd Floor Faculty Clinic. Lakeshia Smoot, Executive Assistant (904-244-7340), will direct students to next place of learning.

Course Materials

Handouts - Suggested text: Smith's General Urology

Special Projects in the History of Medicine

NEUR E 5 | 4th Year Elective | Neurology | Clinical Science

Prerequisites

Must be a 4th year medical student

Course Description

There will be a general introduction to history of medicine, historical documents and research methods. This rotation provides an opportunity to work on exhibits, posters, brochures describing the history of medicine, to conduct oral history interviews and to work on projects collecting, organizing, cataloguing and preserving historical materials. A special research project will be required. Students may also elect to do a History of Medicine topic or research
in a specified area under the mentorship of the director. They may choose to publish their results in a peer reviewed journal.

**Course Faculty and Staff**

- Michael S Okun MD (Director)
- Shuri Pass (Course Staff)

**Meeting Place and Time**

TBA, once a week meetings with the mentor. Meetings usually Tuesday mornings.

**Course Materials**

None needed as the course will be defined by the individual student's choice of topic. The student will be asked to assemble primary references based on their choice of topic. As part of the course they may apply for funding through an endowment to travel to obtain primary historical source documents.

**Additional Information**

This is designed to be a fun elective topic and will ultimately end in a potentially publishable manuscript on history of medicine. Progress reports are due every Monday night (by email).

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**Student Health - UF Infirmary**

CM E 2 | 4th Year Elective | Community Health and Family Medicine | Clinical Science

**Prerequisites**

Fourth Year Medical Student

**Course Description**

COURSE GOALS: To introduce students to the interesting field of Student Health Medicine, combining aspects of Family Medicine, Adolescent Medicine, Sports Medicine, Urgent Care, and Preventive Medicine.

**Course Faculty and Staff**

- Ronald L Berry MD (Director)

**Meeting Place and Time**

Student Health Care Center, Infirmary Building, Main Campus. Work Schedule Monday through Friday, 8:00am to 5:00pm.
Course Materials
Selected readings in Student Health.

Additional Information
Student may contact Dr. Berry for more information at 352-294-7475 or rberry@ufl.edu

Surgery - Clinical Independent Study
SUR CIS | 4th Year Elective | Surgery | Clinical Science

Prerequisites
UF 4th year medical student

Course Description
This course should be selected by UF students who would like to complete a unique clinical experience with a particular faculty member within the Department of Surgery at the University of Florida College of Medicine. Students must submit a Clinical Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student.

Course Faculty and Staff
- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
TBA

Course Materials
TBA

Additional Information
TBA

Surgery - Externship
SUR EXT | 4th Year Elective | Surgery | Clinical Science

Prerequisites
UF 4th year medical student

Course Description

This course should be selected by UF students who have scheduled rotations at outside institutions other than Shands at Jacksonville within the Department of Surgery. Students should complete the paperwork required from the institution where the rotation is requested and the “in-house” Externship Application at UF.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time

TBA

Course Materials

TBA

Surgery - Independent Study

SUR IS | 4th Year Elective | Surgery | Basic Science

Prerequisites

UF 4th year medical student

Course Description

This course should be selected by UF students who would like to complete a research study experience with a particular faculty member within the Department of Surgery at the University of Florida College of Medicine. Students must submit an Independent Study Application form to the Electives Coordinator at least 4 weeks prior to the start of the rotation. This application form must be completed and signed by the Faculty Sponsor. Upon approval of the request, a copy of the application form will be provided to the student. All applications for an Independent Study must include a detailed list of goals and objectives and a plan of how these will be accomplished over the time period.

Course Faculty and Staff

- Beth Magyari (Course Staff)
- Matthew Ryan MD, PhD (Director)

Meeting Place and Time
Surgery Skills Lab
SUR E 17 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
Fourth year medical student pursuing general surgical training.

NOTE - there is a Material and Lab fee for this rotation during the Spring semester.

Course Description
The purpose of this course is to provide medical students entering general surgery residencies with a focused introduction to simulation lab skills training. The course will provide students with surgical skills training aimed at enhancing technical skills needed by surgical trainees. The goal of the course is to provide future surgical residents with a leg up as they enter training. The curriculum will include elements of the technical skills training program used by the surgical residents at UF. Skills training will include increase familiarity with surgical instruments, open suturing skills, basic laparoscopic skills training, simulation based training in flexible endoscopy, simulation based training in central line placement, airway management training, and simulated code and critical care management. Basic didactic principles will be taught in parallel with skills training.

Course Faculty and Staff
- Michele Silver (Course Staff)
- George Sarosi MD (Co-Director)
- Sanda Tan MD, PhD (Director)

Meeting Place and Time
A monthly calendar of skills activities will be provided to all course participants.

Course Materials
Course Materials will be assigned during the course.

NOTE - there will be a Material and Supply fee, per student, applied to this course beginning Spring 2017. The amount of this fee will be determined in the Fall of 2016.

Additional Information
NOTE - there will be a Material and Supply fee, per student, applied to this course beginning Spring 2016. The Material and Lab fee will be charged during the Spring semester.

Surgical Intensive Care Unit Elective
ANS E 3 | 4th Year Elective | Anesthesiology | Clinical Science

Course Description
During this rotation the student will participate as an active member of the Critical Care team, this includes management of specific cases and presentation on daily rounds. During the rotation, ample opportunity is provided for the insertion of various monitoring lines, development of an understanding of fluid and electrolyte balance, and exposure to various forms of nutritional support. Topics for coverage include cardiovascular and respiratory physiology and pharmacology, interpretation of blood gas analysis. The student will also be exposed to various discussions based on treatments of the critically ill patient. Medical Students may be required to take call (including nights and weekends) and to carry a beeper at all times.

Course Faculty and Staff
- Sean Kiley MD (Director)
- Christopher Giordano MD (Co-Director)
- Madalyn Murray (Course Staff)

Meeting Place and Time
On first day of the rotation you will meet with Sean Kiley, MD in Shands North Tower in room 2509 in the CICU.

Course Materials
Tutorials and protocols for the SICU will be provided prior to the start of the rotation
Recommended textbook: Essential Anesthesia by Euliano & Gravenstein (available on reserve in the HSC library).

Students are encouraged to review modules that are offered during the Anesthesiology / Critical Care Clerkship

Additional Recommended Readings: Critical Care Ultrasound Readings and Trainings

Surgical Pathology
PATH E 1 | 4th Year Elective | Pathology | Clinical Science
Prerequisites
Completion of first 2 years of medical school.

Course Description
COURSE GOALS: Introduction to Surgical Pathology techniques, diagnosis and clinical implications. Students work as externs with Pathology Residents and Attending. Course is available for students who are considering a career in pathology, medical or surgical subspecialties or who want a clinically relevant in depth experience in disease processes. The course can be structured to the student's interests, such as Gynecologic pathology only, or as a mixture of subspecialties.

Course Faculty and Staff
- Layla Alizadeh MD (Director)
- Emilee Rice (Course Staff)
- Jesse Kresak MD (Director)

Meeting Place and Time
Meeting Place: Stetson Medical Sciences Building, Room N1-11D
Meeting Time: 7:30 AM, daily (first day orientation time will be set up by contacting Dr. Alizadeh prior to start date)
Students may wear scrubs for this rotation

Course Materials
Current clinical cases at Shands or Rocky Point (University of Florida Health Pathology Laboratories). Case material includes general surgical pathology and/or subspecialty (GI, GYN, Breast, ENT, GU, Ortho, Neuro) areas. Reference texts provided as necessary.

Additional Information
Please contact Dr. Alizadeh prior to beginning the rotation to relay areas of interest so the rotation can be structured appropriately prior to starting the rotation. Any days of absence or scheduling of make-up days will be made directly with Dr. Alizadeh.
alizadeh@ufl.edu

Teaching Assistant in Anatomy
ANAT E 2 | 4th Year Elective | Anatomy | Basic Science

Prerequisites
4th year UF COM medical student
NOTE: Completion of the Becoming an Effective Resident elective (listed under Pathology) - BERT is required to receive credit as a TA.

**Course Description**

This elective is designed to prepare senior medical students to enhance their teaching skills and prepare them for teaching responsibilities that they will assume as an intern and resident. Students are expected to actively engage in promoting student learning.

**Course Faculty and Staff**

- Kyle Rarey PhD (Director)

**Meeting Place and Time**

TBA

**Course Materials**

TBA

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**The Art and Scholarship of Physical Diagnosis; Advanced Physical Diagnosis and Clinical Reasoning**

**MED E 29 | 4th Year Elective | Internal Medicine | Clinical Science**

**Prerequisites**

4th year medical student

**Course Description**

The rapid expanse of technology in medicine has diluted the practice of diagnosis at the bedside. The emphasis of this course will be to refine observational skills, advanced physical diagnosis techniques, synthesis of findings from the physical exam and the clinical reasoning pathway ultimately to enhance your skills as a diagnostician. You will interact closely with expert clinicians in further refining your physical diagnosis and clinical reasoning / judgement skills. Learning activities will include bedside teaching rounds, observation exercises, independent study and interactive discussion. You will share your expertise while leading MS 3 physical findings rounds.

**Course Faculty and Staff**

- Paulette C Hahn MD (Director)
Meeting Place and Time

TBA: Please contact Dr. Hahn by e-mail prior to the course for information regarding meeting time and place. e-mail: hahnpc@medicine.ufl.edu The course will meet daily for two weeks.

Course Materials

Recommended texts: Sapira's Art & Science of Bedside Diagnosis by Jane M. Orient and Symptom to Diagnosis: An Evidence-Based Guide by Scott D. C. Stern, Adam S. Cifu, Diane Altkorn These texts and others will be on reserve in the Rheumatology office for your use during the course.

Additional Information

You are encouraged to review the basic physical exam prior to starting this elective. Grading: Pass / Fail

The Use of Narrative Medicine in Pediatrics - Health through Stories

PED E 18 | 4th Year Elective | Pediatrics | Basic Science

Prerequisites

4th year medical student

Course Description

The course work will be based on interviewing pediatric patients and their families and practicing narrative writing with 3 goals in mind;
1) Presenting the patient's history of illness accurately in a form useful for traditional medical presentation.
2) Practicing narration of the patient's history from their personal perspective.
3) Be able to analyze the similarities and differences between the narrations created from these two distinct perspectives and begin to use that understanding to modify one's understanding of health and illness.

Additional readings and writings will be shared and discussed from other sources to add to and stimulate analysis and discussion.

The student will keep a portfolio of the interviews, written narrations and analyses.

Course description

Course Faculty and Staff

- Robert M Lawrence MD (Director)
Meeting Place and Time
Dr. Lawrence's Office Human Development Bldg 301 - 294-5252, lawrerm@peds.ufl.edu
meeting time approximately one week before starting the course to prepare and arrange meetings.

Course Materials
1) Handout materials available on the first day.
2) Ten Years of Medicine and the Arts - Academic Medicine 1991-2001

Additional Information
Dates offered will relate to both Dr. Lawrence's and the students availability. The preferred duration of the elective is 2 weeks, although if a student has a particular project or goals in mind then 4 weeks can be arranged. The student can directly contact Dr. Lawrence via e-mail to negotiate the dates.

Thoracic and Cardiovascular Surgery
SUR E 8 | 4th Year Elective | Surgery | Clinical Science

Prerequisites
4th year medical student - completion of 3rd year rotation on General Surgery

Course Description
COURSE GOALS: At the completion of this rotation the student will be able to:
1. Perform detailed admission histories and physical examinations specific to patients who have pulmonary and cardiac disease that require surgical therapy.
2. Identify the indications and potential complications for thoracic and cardiac surgical procedures.
3. Identify the appropriate tests and medications required for assigned patients throughout their course of therapy.
4. Second or first assist in general thoracic and open heart surgical procedures.
5. Correlate the findings from the physical, hemodynamic, laboratory, and other diagnostic tests performed before and after cardiac surgery.
6. Evaluate and predict patient outcomes in response to surgical interventions and pharmacologic manipulations performed in the postoperative period.

Student activities include: Daily patient rounds and conferences, assisting in surgery, diagnostic work-ups, and direct patient care.

Course Faculty and Staff
Meeting Place and Time

CICU 0600 HRS
SPONSORING UNIT: Department of Surgery, Division of Thoracic and Cardiovascular Surgery
COURSE DIRECTOR: Daniel G. Knauf, M.D., Rm. M-602, (352) 846-0364, Box 100286
COURSE GOALS: At the c

Course Materials

Current textbooks in thoracic, adult cardiac, and congenital heart surgery. Selected reprints from specialty journals.

Trauma; Surgical Critical Care; and Emergency Surgery

SUR E 14 | 4th Year Elective | Surgery | Clinical Science

Prerequisites

Fourth Year Medical Student

Course Description

Four week course in which student will rotate on the Trauma/Emergency Surgery Service and act as a sub-intern. Daily rounds with residents and attending; bedside surgical procedures in the SICU; operative cases in the OR and the initial management and resuscitation of the severely injured trauma patient will be emphasized.

Course Faculty and Staff

- Michele Silver (Course Staff)
- Chasen Croft MD (Director)

Meeting Place and Time

5:30 AM in Shands (S), 5W.

Course Materials

TBA
Additional Information

Excellent experience for student interested in surgery; critical care or anesthesia as a career.

**UF Mobile Clinic**

**MED E 40 | 4th Year Elective | Internal Medicine | Clinical Science**

**Prerequisites**

4th year medical student

**Course Description**

This course entails a “hands-on” experiential approach to rendering health care to the underserved. Students will spend Monday-Thursday 11-4:30 & Friday 9-5, as well as some evenings/ nights a week, rendering health care on the UF Mobile Clinic, a clinic on wheels which visits a different neighborhood each day of the week. Students will work in neighborhood clinics under the supervision of a licensed health professional and with clinic staff support.

All students will be required to attend an orientation breakfast, Dr. Hardt’s treat, on the first Monday of their rotation at 8AM, and a wrap up meeting on the last Friday, at 8AM. Location TBD:

email sherices@ufl.edu for details

Common problems to be addressed are family planning, sexually transmitted infections, diabetes, hypertension, and depression.

Students will be expected to reflect briefly on their Mobile Clinic primary care experiences in the form of a REAP note, not to exceed 1.5 pages. Reap includes Reflection, Experience, Assessment, and Plan. Your paper should express what you learned and any thoughts or emotions you encountered that will affect your future practice. REAP notes will be submitted to Dr. Hardt via email at hardt@ufl.edu and to the Course Manager at deenarweiss@ufl.edu

**Course Faculty and Staff**

- **James Grigg MD** (Director)

**Meeting Place and Time**

For more info email: MobileClinic@health.ufl.edu

See the UF Mobile Clinic website for monthly schedule.

**Course Materials**
Urology Surgery - Elective

SUR E 10 | 4th Year Elective | Urology | Clinical Science

Prerequisites

Senior medical student status. Non-UF students applying for this rotation must also submit a Letter of Recommendation from their Urology mentor at home institution.

Course Description

This course will provide the senior student with a basic understanding of clinical urology as a surgical subspecialty. Student will; 1) participate as a member of the urological team providing inpatient, outpatient and surgical care to patients referred to the urological service.; 2) participate in urological teaching conferences; 3) interact with urological residents and faculty on a daily basis. Psychomotor Domain: 1. Demonstrate proficiency in common intern-level duties including Genitourinary Exam (including male and female exam, DRE, Catheter insertion, basic urological endoscopic techniques and basic suturing skills; 2. Recognize the role of existing and emerging technology and research in the field and practice of urology.; 3. Reliably use the Internet and electronic tools as a medical resource. Affective Domain: 1. Expand his/her exposure to and appreciation for a career in urology.; 2. Become more keenly aware of the opportunities available to residents in urology.; 3. Appreciate the influence of translational research as it applies to urology. LEARNING ACTIVITIES: The students who choose this rotation as an elective will participate as a member of a very busy and academic urological service at the University of Florida. He or she will become aware of the daily responsibilities of a urology resident; including education of 3rd year medical students and perioperative care of the surgical patient. Students will be expected to attend all urology related conferences including Didactic resident lectures; GU Tumor Board; Morbidity and Mortality Conference; Urological Imaging Conference; Basic Science Conference and Mortality Conference Pathology Conference and Journal Club. Furthermore; the student will be assisting in the Operating Rooms and seeing patients in clinic. Although the curriculum is flexible; it is expected that the student will prepare for cases and conferences as any other member of the team; and will be held accountable for these. At the conclusion of the 4-week rotation; the student will present a 30-minute slide presentation on some aspect of Urology in the didactic format to the residents. He or she should choose a faculty mentor who will assist in the assimilation and delivery of this lecture. This lecture should be evidence-based; and articles from accredited journals should be referenced.

Course Faculty and Staff
Vincent Bird MD (Director)

Christine Emery (Course Staff)

Meeting Place and Time

The first day you will meet Christine Emery on the 2nd Flr of the Health Science Center, Dept. of Urology, Rm N-203. During the elective rotation you will meet residents for morning rounds that begin on the wards at 6:00am (chiefs will direct you)

Course Materials

No specific text is required - recommended texts include; 1) Campbell's Urology (4 volumes) - Available for reference in the Div. Library; 2) Hinman's Atlas of Urologic Surgery (useful in preparing for individual surgical cases) - Available in the Div. library; 3) Smith's General Urology (a urologic overview readable in the four week rotation); 4) AUA Update Series (an up to date; concise comprehensive review of selected urologic topics) - Available in the Div. library

5) Students are asked to complete or show evidence of prior completion of the online national medical student curriculum in urology available at www.auanet.org (under the Education tab click Educational Programs then Medical Student Information then CORE Content)

Additional Information

Christine Emery is the Residency Coordinator for the Department of Urology and can be reached at (352) 273-8634, Fax: (352) 273-8604, or email Christine.emery@urology.ufl.edu.

USMLE Step 2 Preparation

COM E 6 | 4th Year Elective | Comec Chapman Education Center | Basic Science

Prerequisites

4th Year UF Medical Student

NOTE: The max # of credits associated with this course listing is 2 for a 4-week rotation.

Course Description

This course should be selected when creating schedule to indicate the 4 weeks that you are using as Step II study time.

Learning Objectives:

Apply history taking skills to standardized patient scenarios.

Apply physical exam skills to standardized patient scenarios.

Develop a list of differential diagnoses explaining the patient's presenting complaint.
Document the patient encounter in a succinct manner.

Use the results of Phase 1 and 2 curricular assessments to develop a study plan for Step 2 CK and CS.

**Course Faculty and Staff**

- Beth Magyari (Course Staff)

**Meeting Place and Time**

NA

**Additional Information**

NOTE: The max # of credits associated with this course listing is 2 for a 4-week rotation.

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**Vascular Surgery**

**SUR E 21 | 4th Year Elective | Surgery | Clinical Science**

**Prerequisites**

3rd year rotation on General Surgery

**Course Description**

COURSE GOALS: At the completion of this rotation the student will be able to: 1. Perform detailed admission histories and physical examinations specific to patients with vascular disease who require surgical and/or medical therapy. 2. Identify the indications and potential complications for vascular surgical procedures. 3. Identify the appropriate tests and medications required for assigned patients throughout their course of therapy. 4. Second or first assist in general vascular surgical procedures. 5. Correlate the findings from the physical, hemodynamic, laboratory, and other diagnostic tests performed before and after vascular surgery. 6. Evaluate and predict patient outcomes in response to surgical interventions and pharmacologic manipulations performed in the postoperative period. Student activities include: Daily patient rounds and conferences, assisting in surgery, diagnostic work-ups, and direct patient care.

**Course Faculty and Staff**

- Robert J Feezor MD (Director)
- Michele Silver (Course Staff)

**Meeting Place and Time**
Call the Vascular Surgery Office (273 5484) or page Dr. Feezor (352 262 1775) for information.

**Course Materials**

Material will be provided from the following:
Selected readings from Journal of Vascular Surgery and other vascular specialty journals.

**Additional Information**

The Shands Vascular surgery service is a busy, tertiary care service that has a heavy operative load. The 4th year student rotating on the service will function as a junior resident, including operating with the faculty and fellows as well as supervising the 3rd year medical students and assisting the interns.

**Vascular Surgery - Jacksonville**

SUR E 4J | 4th Year Elective | Surgery | Clinical Science

**Course Description**

The fourth year elective is designed specifically for the student with a serious interest in a residency in vascular surgery. The level of responsibility will be the same as a 1st year resident. Students will be expected to take a more active role in the operating room as well as pre-operative and post-operative care of vascular patients under the direct supervision of the vascular surgery staff. Self-education is stressed; but students also attend major departmental conferences.

**Course Faculty and Staff**

- Frank J Genuardi MD, MPH (Other Faculty)
- James W Dennis MD (Director)
- Eugenia Smith (Course Staff)
- Dani Brown (Course Staff)

**Meeting Place and Time**

8:30 AM: Student Coordinator's (Eugenia Smith's) office; 3rd floor Faculty Clinic

**Course Materials**

Handouts
Women's Health Elective
MED E 36 | 4th Year Elective | Internal Medicine | Clinical Science

Prerequisites
4th year UF COM medical student. Scheduling of this course must be preapproved by Dr. Sattari.

Course Description
Students will gain a perspective on unique aspects of issues affecting women through hands-on experience in the ambulatory setting and evaluation of management of common medical conditions, such as diabetes and hypertension, as well as health maintenance visits. Furthermore, they will have didactic as well as interactive scheduled sessions with course faculty to discuss important topics in women’s health, including health promotion and disease prevention, breast health, reproductive health, and mental health. Students will be able to choose to present a case presentation or to submit a clinical vignette at the end of this elective to demonstrate an interesting clinical case encountered during the elective or learning objective pertinent to women’s health.

Course Faculty and Staff

- Maryam Sattari MD, MS (Director)
- Adrian Ramos (Course Staff)
- Karen Daily MD (Other Faculty)
- Erinn Cooke MD (Other Faculty)
- Julia K Marshall (Other Faculty)

Meeting Place and Time
Contact Dr. Maryam Sattari (Maryam.sattari@medicine.ufl.edu) (265-0651) one week prior to course for meeting time and location and schedule.

Course Materials
Handouts provided as needed

Additional Information
NOTE: Scheduling of this course must be preapproved by Dr. Sattari.