<table>
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<tr>
<th>Rotation/Block</th>
<th>Rotation Month</th>
<th>Rotation Dates</th>
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<tr>
<td>1</td>
<td>June</td>
<td>June 6, 2016- July 1, 2016</td>
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<td>3</td>
<td>August</td>
<td>August 1, 2016 – August 26, 2016</td>
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<td>4</td>
<td>September</td>
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<td>October</td>
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<td>6</td>
<td>November</td>
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<td>7</td>
<td>December</td>
<td>November 21, 2016 – December 16, 2016</td>
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**Holiday Break**  
December 17, 2016 – January 8, 2017

| 8             | January       | January 9, 2017 – February 2, 2017|
| 9             | February      | February 6, 2017 – March 3, 2017|
| 10            | March         | March 6, 2017 – March 31, 2017|
| 11            | April         | April 3, 2017 – April 28, 2017|

**Capstone**  
*(requirement for M4)*  
May 1-5, 2017

M4 includes one (1) required 4 week Acting Internship, seven (7) required 4 week electives, and three (3) four week rotations to be used for additional electives, research, independent study, residency interviews, make-up or vacation.

**Graduation May 19, 2017**

*Note: Dates subject to change. Students will be notified.*
Fourth Year Requirements - 2016-2017

The fourth year is divided into eleven, four week blocks. All students are required to complete and pass the following eight blocks:

- One Acting Internship in any core area - Family Medicine, Internal Medicine, Emergency Medicine, Neurology, Obstetrics and Gynecology, Pediatrics, Psychiatry, Critical Care, or Surgery (must be taken at affiliated hospitals)
- Electives (all seven electives must be completed; up to four electives may be taken at approved extramural institutions; up to four electives may be used to do independent study; up to two electives may be used to do a research study; and no more than four electives may be taken in the same core area)

The three remaining blocks of the fourth year may be used for other electives, independent study, further research, residency interviews, or remediation (if needed). Students finish the fourth year with a Capstone Experience that provides specialty-specific preparation for internship, leadership training and teaching experience.

**ONE ACTING INTERNSHIP**

**NOTE**: Students cannot repeat the same acting internship at another location. Acting internships can be taken in both an inpatient and outpatient setting.

<table>
<thead>
<tr>
<th>Family Medicine</th>
<th>MDI 8120 1 (FH)</th>
<th>Neurology</th>
<th>MDI 8650 1 (FH)</th>
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Things Every Medical Student Should Know About Electives

- Students should use the elective program to increase their knowledge in fields which they have particular interest, to correct deficiencies in fields of importance to their overall medical education, and to explore areas of medicine outside the area of special interest to the student. **ELECTIVE TIME IS NOT FREE TIME.** It is to be used productively in amplification of the undergraduate medical education.

- Electives are taken for credit and students must perform satisfactorily in their required and elective work in order to be promoted and recommended to graduate. A program of electives should be selected by consultation with a faculty advisor and must be approved by the Associate Dean for Students.

- Students should discuss their proposed coursework with the faculty member who will supervise and evaluate their performance.

- Students may not be paid for work performed as part of their elective or required coursework for credit. Students may not be supervised by a parent or relative.

**Important:** Most 4th Year Clerkships, Acting Internships, and Electives are available in all blocks. Exceptions are noted with individual course listing. Enrollment limitations are noted in course information.
Attendance Policy

Excused Absences
Students are expected to attend all scheduled hours of clinical responsibilities and didactic instruction. Mandatory clerkship participation requirements and remediation due to absence are determined by the Clerkship Director. The student will be held responsible for any material covered during the excused absence, but will be permitted a reasonable amount of time to complete any missed work. Recognizing that situations may arise which require students to miss time from their clerkship responsibilities, the procedures presented below will be followed when absence is necessary:

- Students on both required and elective rotations in the fourth year will be allowed to miss no more than three full days of responsibilities per rotation as excused absences for the following:
  a. Personal illness
  b. Family emergency
  c. Presentation at professional meetings
  d. Residency interviews

- Absences due to illness or family emergencies should be reported to the clerkship director or site director, clerkship coordinator and supervising physician/chief resident on service on the first day of any absence.

- Approval for anticipated leave, including residency interviews and student presentations at professional meetings:
  - Requests must be submitted in writing prior to the start of the affected rotation, and at least six weeks in advance of the scheduled event. Requests must be approved by the Clerkship or Elective Director.
  - Once approved, the student must inform their supervising physician/chief resident and their team of the anticipated absence.
  - Approved student absence form will be completed and forwarded to the Office of Student Affairs by the clerkship coordinator.

- Excused absences exceeding three days will require make-up, the nature of which will be determined by the Clerkship or Elective Director. Examples include the taking of additional call or weekend shift. Make-up time will be scheduled at the convenience of the site.

- Excused absences do not include:
  - Vacations, personal days or social events, including weddings, graduations or birthdays
  - Routine doctor/dental appointments
  - Taking Step 2 exam
  - Missing Orientation or Capstone or LCT Session
Unexcused Absences

- In the event of an absence from the clerkship without permission from the clerkship director, the student will lose 5 points per unexcused absence from their final clerkship grade.

- Additional remediation may be required at the clerkship director’s discretion (e.g., the taking of extra call).

**Important:** Blocks 6, 7, and 8 (10/24 – 2/3) is a busy time for Residency interviews and may result in you exceeding the number of excused absences allowed in a block. You should take this into consideration when planning your 4th year schedule and consider taking these blocks off or scheduling a rotation that can work around the amount of time needed to attend interviews.

The attendance policy can be found here: [https://med.ucf.edu/administrative-offices/student-affairs/registrar/registrar-resources/](https://med.ucf.edu/administrative-offices/student-affairs/registrar/registrar-resources/)
Scheduling Away Electives and Independent Studies

Away Electives

- All students are encouraged to participate in at least one away rotation.
- Students may not participate in more than four away electives.
- All petitions for away rotations must include a description of the course, including schedule, duties, learning outcomes, etc.
- It is the student’s responsibility to provide their supervising faculty with an evaluation for each away rotation and to have the supervising faculty complete it and turn it in to the Registrar’s Office in a timely manner. Students will not receive a grade for an away rotation in which no evaluation is completed.

VSAS Institution
Gynecology Elective

VSAS® is an AAMC application designed to streamline the application process for senior "away" electives at U.S. LCME medical schools and independent academic medical centers that are members of the Council of Teaching Hospitals and Health Systems (COTH). The service requires only one application for all participating institutions, effectively reducing paperwork, miscommunication, and time. VSAS also provides a centralized location for managing offers and tracking decisions.

How to Apply to VSAS

Once you have determined that you will be using VSAS, the following steps outline the application process. Note that hosts typically begin accepting applications in March for the upcoming academic year.

**Step 1. Receive VSAS Authorizations**
You will be emailed VSAS login instructions once the UCF COM Registrar has issued authorizations. Each student will be issued 10 authorizations.
- Each elective request requires an authorization, even if you have multiple requests at the same institution or for the same elective but during a different block (i.e., a request for Cardiology at Vanderbilt during block 3 and a request for Cardiology at Vanderbilt for block 5 requires two separate authorizations).
- When they are issued, you will receive a "VSAS: New User Instructions" e-mail containing the information you need to sign in to VSAS.

**Step 2. Complete Application Profile**
Provide contact information and the dates on which you have or will have finished your core clerkships.
Step 3. Review Host Institution Information
Review the VSAS Institutions tab for host-specific requirements and dates on which applications will be accepted.

Step 4. Upload and Assign Documents
Upload and assign required documents to a specific host institution or elective request.
- Photo, CV, and immunization records are often required
- Additional documentation is required by some hosts
- Transcripts may only be uploaded by the COM

Step 5. Search for Electives
Browse electives by keyword, specialty, institution name, state, and/or elective start month. Save electives to apply for later.

Step 6. Apply to Electives
Select saved electives (with preferred dates) for which you are applying and -
- arrange elective requests in order of preference
- review, edit, and upload required documentation
- pay VSAS fees and submit your application
- The COM will then add additional data about you before ‘releasing’ your applications to host institutions.

Step 7. Track Offers
Review application statuses and host decisions through the VSAS Tracking tab.
- Accept or decline offers before offers expire
- Withdraw pending applications, or drop accepted offers, if necessary

VSAS Tip. Read E-Mails
Make sure the e-mail address on your Application tab is current, as you will receive e-mails notifying you of:
- offers for electives and offers soon to expire
- electives applied for but which are not available
- scheduling conflicts between scheduled electives

Once approved by the host institution, students will need to complete the Petition for Special Clinical Study Credit for Extramural Clerkship form and have approved in order to receive credit for the elective.

Non-VSAS Institution
Students may also apply for away electives at non-VSAS institutions. It is entirely the student’s responsibility to locate and apply for these electives. Once approved by the host institution, students will need to complete the Petition for Special Clinical Study Credit for Extramural Clerkship form and have approved in order to receive credit for the elective.
Independent/Research Studies

- The opportunities for use of elective time in the fourth year include research in clinical or basic science areas of UCF College of Medicine or other institutions. The flexibility of fourth year curriculum gives students maximum opportunity for individual development.
  1. A student may do no more than two research studies.
  2. A student may do no more than four independent studies.
  3. Students may be registered for the same independent or research study for no more than two rotations, but the objectives for each rotation must be different.

- Independent/Research Studies must be supervised by a UCF faculty member. Students should work with the Faculty Supervisor to determine the topic of study and the deliverable.

- Students must complete a Petition for Independent/Research Study prior to the start of the rotation. The petition must include a description of the study or research being conducted, and must be signed by the faculty supervisor, the Assistant Dean for Medical Education, and the Associate or Assistant Dean for Students. Failure to turn in the Petition for Independent/Research Study by the deadline may result in No Credit.
Making Changes to Your Schedule

- Enrollment in a required course or elective is considered a commitment. Changes must be requested at least 6 weeks in advance prior to the beginning of the elective. After 6 weeks, all requests to add/drop/withdraw from an elective will require the approval of the Associate Dean for Students.

- Fourth year students’ course changes must be made far enough in advance to:
  1. Notify Instructor of Record;
  2. Obtain confirmation of availability from the site;
  3. Allow call schedules to be modified; and
  4. Complete any training and/or screenings required by the site

**Changes must be made at least 6 weeks in advance prior to the beginning of the elective. No change may be made within 6 weeks of the beginning of the elective or after the elective has begun, except under extenuating circumstances and only with the approval of the Associate Dean for Students.**

- All requests for schedule changes should be emailed to Alisha Corsi in the M.D. Registrar’s Office at alisha.corsi@ucf.edu. Students should never make schedule requests directly with the preceptor.

- When availability of a course is confirmed by Alisha Corsi and a request for a change has been approved, students must complete a Clerkship/Elective Change Request form and have it signed by their Academy Leader. The completed form must be turned in to the M.D. Registrar’s Office prior to the start of the rotation.

- No updates or changes to a student’s registration will be made in OASIS until a completed Clerkship/Elective Change Request form has been received by the Registrar’s Office. Failure to turn in a Clerkship/Elective Change Request form on time may result in No Credit. Students may not report to a site until their registration has been updated, as you must be registered in order for liability coverage to be in effect.

**Under NO circumstances will changes be approved for requests made less than 30 days before the start of a rotation for the following courses: Any Acting Internship, any Psychiatry courses offered at the Veteran’s Hospital.**
Acting Internships, Clerkships, and Elective Training Locations

- **(UCF COM)** University of Central Florida College of Medicine - A
- **(FH)** Florida Hospital – 1
  - Florida Hospital Orlando - 1
  - Florida Hospital East Orlando - 2
  - Florida Hospital Altamonte - 3
  - Florida Hospital Celebration Health - 4
  - Winter Park Memorial Hospital - 5
  - Florida Hospital Flagler - 6
  - Florida Hospital Kissimmee - 7
- **(OH)** Orlando Health – 2
  - Orlando Regional Medical Center - 1
  - Arnold Palmer Hospital for Children - 2
  - Winnie Palmer Hospital for Women & Babies - 3
  - M.D. Anderson Cancer Center - 4
- **(VA)** Veterans Hospital and various VA sites in Florida - 1
  - VAMC-Orlando VA Medical Center – 1
  - VA Health Care System- Bay Pines VA Health Care System – 2
  - VA Lake Nona - 3
- **(CFFHC)** Central Florida Family Health Center -4
- **(HCA)** Hospital Corporations of America - 5
- **(PV)** Pasadena Villa -6
- **(NCH)** Nemours Children’s Hospital -7
  - Nemours Children’s Clinic – Orlando – 1
  - Nemours Children’s Hospital – Orlando -2
- **(HF)** Health First - 8
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

- (PO) Private physician’s office, clinic or externship location -9
- (SCG) State/County/Municipal Government Agencies – B
- (HoF) Heart of Florida – C

Course Key

**Acting Internships, Clerkships, and Elective Training Locations**

- (FLG) Flagler Hospital – D

THE FIRST TWO DIGITS IN THE COURSE SECTIONS DENOTE SPECIFIC SITE LOCATION:
EXAMPLE, MDE 8336 11XX FLORIDA HOSPITAL ORLANDO OR MDE 8336 24XX M.D.
ANDERSON CANCER CENTER)
Course Key

**Structure of Special Studies Clinical/Research @ UCF COM**

**Special Studies/Research/Independent Study**

MDE 8900/MDR 8900

- The Independent Study/Research elective permits 4th year medical students to pursue, under the sponsorship of UCF College of Medicine faculty members, areas of study/research that are not included among regular elective offerings. Arrangements for these electives are made between the student and the faculty member; they will require administrative approval prior to registration.

**Structure of Visiting Elective/Externship Outside of UCF COM**

**Extramural Clerkship**

MDX 8011

- This elective offers students the opportunity to gain extramural experience in approved programs to gain further training and experience in “off-campus” settings—hospital, medical schools or other practice areas.

**Structure of Special Studies Clinical/Research for Away Clerkship**

**Special Studies/Research/Independent Study**

MDX 8900

- The Independent Study/Research elective permits 4th year medical students to pursue areas of study/research outside of UCF. Arrangements for these electives are made between the student and the away location supervising faculty member. Students must obtain administrative approval prior to registration.

**Structure of Special Clinical Study Credit for International Clerkship**

**Special Studies/Research/Independent Study**

MDE 8072

- Students interested in completing an elective outside of the United States should contact the Office of Student Affairs. Additional information may be available from the Director of International Health Programs.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

ACTING INTERNSHIPS
Acting Internship

Acting Internship in Emergency Medicine
Clerkship Director: Dr. Jay G. Ladde & Dr. Katia Lugo

MDC 7710 1
Full-time (4 weeks)
(FH) FH East
Grading Basis: ABCF
First Day: Students will be notified via email from Ms. Bradford indicating first day reporting instructions
Primary Faculty Supervisor: TBA
Contact person: Katherine Bradford, Program Coordinator, Katherine.Bradford@flhospital.org
Maximum Enrollment: Varies each block
***All requests for time off must be sent to Dr. Lugo at klugomd@flhemclerkship.com and Katherine Bradford at Katherine.bradford@flhospital.org no less than two weeks prior to the start of your rotation.

MDC 7710 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: ABCF
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Primary Faculty Supervisor: TBA
Contact person: Carrie Chapman Carrie.chapman@Orlandohealth.com
Maximum Enrollment: Varies each block

MDC 7710 5
Full-time (4 weeks)
(HCA)
Grading Basis: ABCF
First Day: Students should contact Stephanie Jorge for instructions
Primary Faculty Supervisor: Dr. Tracy MacIntosh, tracystmac@gmail.com
Contact person: Stephanie Jorge, GME Coordinator, (407) 518-3347, stephanie.jorge@hcahealthcare.com
Maximum Enrollment: 1-2 per block

This four week core clerkship introduces the student to initial evaluation, workup, diagnostic ordering and treatment of patients presented to the emergency department

Objectives:
1. Students are expected to develop basic diagnostic skills in emergency medicine. These basic skills include performing a detailed history and physical exam, the collection of appropriate cost-effective laboratory data and radiographs, the performance of appropriate procedures, and the formulation of relevant differential diagnosis and treatment plans.

2. Students will develop basic skills and understanding of wound repair, abscess drainage, and ultrasound usage as well as developing skills in central line insertion, lumbar puncture, joint aspiration, slit lamp exam, dental blocks, and airway interventions through either direct supervision by residents, fellow, or attendings or by assisting residents, fellows, and attendings in these procedures.

3. During the 4 week rotation, the students will achieve competence in six areas listed below (based on ACGME core competencies:}
Acting Internship in Emergency Medicine Continued

✓ Patient care
✓ Medical Knowledge
✓ Practice-based Learning and Improvement
✓ Interpersonal and communication skills
✓ Professionalism
✓ System-based practice
Acting Internship

Acting Internship in Critical Care and Pulmonary Diseases

MDI 8247
Full-time (4 weeks)
(FH)
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Daniel Layish
Contact Person: Ardith Dell, Coordinator,
(407) 581 – 1446; adell@cfpulmonary.com
Maximum Enrollment: 1-2 per block

First Day: Contact Ardith Dell two weeks before the start of the rotation for reporting instructions

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness. The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

Objectives:
The educational philosophy of the critical care clerkship is to provide the matrix upon which to develop a scientifically sound approach to the management of critically ill patients. Additionally, the program is designed to allow individuals to become familiar with the clinical aspects of critical care and acute care medicine.

1. Show an understanding of a comprehensive approach to patients with multi-system critical illness.
2. List the indications and complications of invasive hemodynamic monitoring.
3. Demonstrate understanding of the techniques for arterial, central venous, and pulmonary arterial catheterization.
4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.
Acting Internship

Acting Internship in Critical Care

MDI 8342 8
Full-time (4 weeks)
(HF) *This site is more than 50 miles from the COM
Grading Basis: ABCF
First Day: Report to Holmes Regional Medical Center,
Medical Staff office, Administrative Suite, C Building next to
Emergency Room first floor @ 8:00 am
Primary Faculty Supervisor: Dr. Peter Pappas
Contact person: Tammy Muzzy, (321) 434-1242;
Tammy.Muzzy@health-first.org; Dr. Pappas,
Peter.Pappas@health-first.org
Maximum Enrollment: 2 per block (September, November, January, &
March only)

The critical care clerkship immerses the student in the care of ICU patients by focusing technology,
multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness. The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

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5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.
Acting Internship

Acting Internship in Medical Critical Care

MDI 8344 2
Full-time (4 weeks)
(OH)
Grading Basis: ABCF
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Primary Faculty Supervisor:
Dr. Rumi Kahn
Contact Person: Sandra Ingram,
GME Coordinator,
Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 2 per block

MDI 8344 5
Full-time (4 weeks)
(HCA) Hospital Corporation of America
Grading Basis: ABCF
First Day: Report to Osceola Regional Medical Center GME office at 7:00 am
Primary Faculty Supervisor: Dr. Rami Hanna, docramius@yahoo.com
Contact person: Stephanie Jorge, GME Coordinator, (407) 518-3347, stephanie.jorge@hcahealthcare.com
Maximum Enrollment: 1 per block

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness. The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.
Acting Internship in Medical Critical Care continued

Objectives:
The educational philosophy of the critical care clerkship is to provide the matrix upon which to develop a scientifically sound approach to the management of critically ill patients. Additionally, the program is designed to allow individuals to become familiar with the clinical aspects of critical care and acute care medicine.

1. Show an understanding of a comprehensive approach to patients with multi-system critical illness.
2. List the indications and complications of invasive hemodynamic monitoring.
3. Demonstrate understanding of the techniques for arterial, central venous, and pulmonary arterial catheterization.
4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.
Acting Internship

Acting Internship in Surgical Critical Care

MDI 8343 2  
Full-time (4 weeks)  
(OH)  
Grading Basis: ABCF  
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby,  
Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and  
Alexander Arismendi. You should expect to receive a reminder email  
from Mr. Arismendi before the start of the rotation  
Primary Faculty Supervisor:  
Dr. Joseph Ibrahim  
Contact Person: Sandra Ingram,  
GME Coordinator,  
Sandra.Ingram@Orlandohealth.com  
Maximum Enrollment: 1 per block

The critical care clerkship immerses the student in the care of ICU patients by focusing technology, multidisciplinary personnel, and physiologic, goal-oriented, humanistic practice in critical illness. The University of Central Florida College of Medicine M4 Critical Care Clerkship is designed to make the transition from basic clinical sciences to acute care of patients with life-threatening conditions and who need advanced life support technology and personnel. The clerkship is based in the hospital intensive care unit and the educational experience will come from a multidisciplinary team of hospital-based intensivists, critical care fellows and residents, consulting physician specialists, critical care nurses, pharmacists, respiratory therapists, dieticians, physical therapists, rehabilitation specialists, social workers, other health care professionals, and most importantly, the patients and their families who are cared for by this team. The practice of critical care medicine is based upon sound physiological principles, evidence-based practices, and application of cutting-edge technology, meticulous attention to details, and a compassionate, humanistic approach to severely ill or injured patients and support of their families at their time of crisis.

Objectives:  
The educational philosophy of the critical care clerkship is to provide the matrix upon which to develop a scientifically sound approach to the management of critically ill patients. Additionally, the program is designed to allow individuals to become familiar with the clinical aspects of critical care and acute care medicine.

1. Show an understanding of a comprehensive approach to patients with multi-system critical illness.
2. List the indications and complications of invasive hemodynamic monitoring.
3. Demonstrate understanding of the techniques for arterial, central venous, and pulmonary arterial catheterization.
4. List and prioritize means for increasing cardiac output.
5. Define, in physiologic terms, the adequacy of cardiac output.
6. Reproduce and utilize the formulae for SVRI, PVRI, LVSWI, RVSWI, CI, SV, CPP and MAP.
7. List major risk factors for acute respiratory failure.
8. Discriminate between oxygenation, ventilation, and airway support.

**Acting Internship**

**Acting Internship in Pediatric Critical Care**

**MDI 8463 1**
Full-time (4 weeks)
(FH) Florida Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Aaron Godshall
Contact person: Karen Koster, (407) 303-2888; karen.koster@flhosp.org
Maximum Enrollment: 1 each block

First Day: Report to Florida Hospital for Children South Tower, 5th floor PICU @ 8:00 am

**MDI 8463 2**
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: ABCF
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Primary Faculty Supervisor: Dr. David Skey
Contact Person: Sandra Ingram, Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: Varies by block

**MDI 8463 7**
Full-time (4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Heather Fagan, heather.fagan@nemours.org
Contact Person: Tiffany Baulkman, tiffany.baulkman@nemours.org; Dr. Heather Fagan, heather.fagan@nemours.org
Maximum Enrollment: 1 per block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am for a tour and brief orientation.

Program Overview:
Students will rotate in the state of the art Pediatric Intensive Care Unit (PICU) and Pediatric Special Care Units at Florida Hospital South. Students will work under the supervision of the pediatric critical care attending and the PICU team to care for children in critical or serious condition.
Acting Internship in Pediatric Critical Care continued

Objectives:

- Understand the scope of established and evolving biomedical, clinical, epidemiological and social-behavioral knowledge needed by a physician caring for critically ill children; demonstrate the ability to acquire, critically interpret and apply this knowledge in pediatric critical care.
- Succinctly present an ICU patient on rounds, formulate a coherent assessment of a patient’s problems and present an appropriate therapeutic/diagnostic plan. Further, effectively communicate this plan to nurses, respiratory therapists, and sub-specialists/consultants.
- Recognize and appropriately respond to acute life threatening events. The student should observe and be able to describe the necessary skills to resuscitate and describe the initial stabilization of the critically ill child particularly airway management, volume replacement and resuscitative pharmacology.
- Demonstrate competence in basic airway skills (appropriate implementation of oxygen delivery devices and demonstration of bag-mask ventilation) and placement of peripheral intravenous catheters. Advanced airway skills (intubation) and advanced intravenous access skills (central venous catheter placement and arterial line placement) may be observed.
- Understand the pathophysiology and treatment of common medical disorders in the PICU: respiratory failure (apnea, bronchiolitis, asthma, ARDS), shock (septic, cardiogenic, hypovolemic), neurologic critical care (status epilepticus, traumatic brain injury, brain death), renal failure, as listed on the Pediatric Critical Care Required Encounters list.
- Understand the different monitoring techniques in pediatric critical care: vascular hemodynamics, intracranial devices, blood pressure, arterial saturations, end-tidal CO2, and a variety of common laboratory tests.
- Utilize common diagnostic tests and imaging studies appropriately in the pediatric intensive care unit, obtaining consultation as indicated for interpretation of results.
- Understand pediatric critical care pharmacology: inotropes and vasoactive agents, basic antibiotic therapy, common sedatives and analgesics, drug pharmacokinetics and monitoring of side effects.
- Understand techniques for enteral and parenteral nutritional supplementation in the PICU patient.
- Understand the ethical and legal issues which emerge during the care of critically ill and/or dying children (do not resuscitate orders, withholding and withdrawing life support, right of patients).
- Understand the importance of psychosocial issues related to the care of critically ill or dying children. Learn to provide support and deliver difficult information to the family of a critically ill child. Recognize the health care challenges of a child with a critical or chronic disease. Appraise the impact of a child’s critical illness on his or her family.
- Apply evidence based principles of pediatric critical care to compare and contrast available treatment options with regard to efficacy, risk, benefit, cost-effectiveness.
Acting Internship

Acting Internship in Family Medicine
Clerkship Directors: Sergio Salazar, M.D.

MDI 8120 1
Full-time (4 weeks)  
(FH) @ Winter Park Memorial Hospital  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Carlos Dumois  
Contact person: Katy Capote, (407) 646-7469;  
katerina.capote@flhosp.org  
Maximum Enrollment: 1 each block (None in July)  
*This rotation is only available to students planning to specialize in Family Medicine

First Day: Report to 133 Benmore Drive, Suite 201, Winter Park, Fl 32792 @ 8:15 a.m where Jacque Malcolm will meet you and give you your welcome packet.

This four week experience will provide advanced clinical training in the care of patients of all ages in the hospital and clinic settings.

Objectives:

1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Acting Internship

Acting Internship in Internal Medicine
Clerkship Directors: Sergio Salazar, M.D.

MDI 8201 8
Full-time (4 weeks) (HF) Melbourne Internal Medicine Associates
First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 9:00 a.m.
*This site is more than 50 miles from the COM
Grading Basis: ABCF
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195;
Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

Goals are advanced training and responsibility in the care of adult medical patients in the inpatient (hospital and long term care facilities) and outpatient settings. The student will assume intern level responsibility for his/her patients and will care for 3-5 patients at one time while as an inpatient or evaluate approximately four patients per ½ day session in the outpatient clinic setting(s).

Objectives:
1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Acting Internship

Acting Internship in Internal Medicine
Clerkship Directors: Sergio Salazar, M.D.

MDI 8340 1
Full-time (4 weeks)
(FH)
Grading Basis: ABCF
First Day: Coordinator will inform student which Senior Resident they will be rotating with. Contact the senior resident to determine first day meeting location.
Primary Faculty Supervisor: Dr. George Everett
Contact person: Stephanie McLaughlin, Internal Medicine Residency Coordinator, (407) 303-7331; stephanie.mclaughlin@flhosp.org; Sheila Page, Department Secretary, Sheilapage@flhosp.org
Maximum Enrollment: 2 each block

MDI 8340 2
Full-time (4 weeks)
(OH)
Grading Basis: ABCF
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Primary Faculty Supervisor: Dr. Alex Rico
Contact person: Sandra Ingram, GME Coordinator, (321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 2 each block

MDI 8340 5
Full-time (4 weeks)
(HCA/VA)
Grading Basis: ABCF
First Day: Student should contact Stephanie Jorge for instructions
Primary Faculty Supervisor: Dr. Ghaffar
Contact person: Stephanie Jorge, GME Coordinator, (407) 518-3347, stephanie.jorge@hcahealthcare.com
Maximum Enrollment: 1 each block

Goals are advanced training and responsibility in the care of acutely ill hospitalized adult patients. The student will assume intern level responsibility for his/her patients and will care for 3-5 patients at one time.

Objectives:
1. Demonstrate ability to assess and care for ill hospitalized adult patients, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Acting Internship in Obstetrics and Gynecology

Clerkship Director: Aileen Caceres, M.D.

MDI 8160 2
Full-time (4 weeks)
(OH) Winnie Palmer Hospital for Women & Babies
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Lori Spreitzer
Contact person: Sandra Ingram, GME Coordinator
(321) 841-3715; sandra.ingram@orlandohealth.com
Maximum Enrollment: 1 each block (except June & July)

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

The student will spend two weeks functioning as a Sub-Intern and team member in the care of
obstetrical patients and two weeks as a Sub-Intern and team member in the care of gynecological
patients at Winnie Palmer Hospital. This course will broaden the student’s clinical experience in
obstetrics and gynecology, including exposure to both inpatient and ambulatory settings.

Objectives:

General Objectives
1. As an integral member in the patient-care team, the student will actively participate in gynecologic
   surgical procedures and Labor and Delivery activities.
2. This AI will enhance the student’s patient care skills, including the ability to perform proper and complete
   histories and physical exams, formulate differential diagnoses, and make clinical decisions for both
   obstetrical and gynecological patients.
3. The student will have exposure, training, and experience in managing pregnant patients in the
   antepartum, intrapartum, and postpartum periods.
4. The student will understand basic principles and clinical applications of obstetrical ultrasound.
5. The student will augment her/his surgical skills.
6. Students are expected to take overnight and/or weekend call during the rotation. Numerous didactic
   conferences are held during the rotation.

Obstetrics Objectives
1. History skills: Gather the important information that is needed for the pregnancy history and complete a
   history in the medical record for at least 5 patients.
2. Physical examination skills: Complete a pertinent physical examination for the evaluation of pregnant
   patients. The student should demonstrate the ability to perform this pertinent physical examination
   while being observed by at least one attending or resident.
3. Knowledge/diagnostic and treatment skills: Know about common medical and surgical conditions
   affecting the fetus and mother.
4. Procedural skills: Observe and assist in common procedures including vaginal delivery, operative vaginal
   deliver (including caesarian sections), ultrasound, amniocentesis.
5. Attitude: Demonstrate professional responsibility in working as a team member with other members of
   the Ob/Gyn care team, patients, and families.
Gynecological Objectives

1. To gain experience in the diagnostic and therapeutic approaches for various gynecologic conditions.
2. To expand basic knowledge with reading materials and case discussions as well as direct patient care.
3. To enhance interpersonal skills and professional conduct in female patient encounters.
4. To hone procedural skills.
5. To develop triage skills, indications for inpatient versus outpatient management and referral for specialty or subspecialty consultation.
6. To receive mentorship and/or research opportunities in the specialty.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Acting Internship

Acting Internship in Obstetrics and Gynecology
Clerkship Director: Susan Yarian, M.D.

MDI 8900
Full-time (4 weeks)         First Day: Report to Ob/Gyn Associates of St.
(FLG) Flagler Hospital       Augustine, 300 Health Park Blvd, Suite 3002, St.
*This site is more than 50 miles from COM      Augustine, FL 32086 @ 8:00 am.
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Susan Yarian
Contact person: Lora, Office Manager
(904) 377-5850; obgassoc@yahoo.com
Maximum Enrollment: 1 each block
*This rotation is only offered to students planning to specialize in ObGyn

The student will spend two weeks functioning as a Sub-Intern and team member in the care of obstetrical patients and two weeks as a Sub-Intern and team member in the care of gynecological patients. This course will broaden the student’s clinical experience in obstetrics and gynecology, including exposure to both inpatient and ambulatory settings.

General Objectives
1. As an integral member in the patient-care team, the student will actively participate in gynecologic surgical procedures and Labor and Delivery activities.
2. This AI will enhance the student’s patient care skills, including the ability to perform proper and complete histories and physical exams, formulate differential diagnoses, and make clinical decisions for both obstetrical and gynecological patients.
3. The student will have exposure, training, and experience in managing pregnant patients in the antepartum, intrapartum, and postpartum periods.
4. The student will understand basic principles and clinical applications of obstetrical ultrasound.
5. The student will augment her/his surgical skills.
6. Students are expected to take overnight and/or weekend call during the rotation. Numerous didactic conferences are held during the rotation.

Obstetrics Objectives
1. History skills: Gather the important information that is needed for the pregnancy history and complete a history in the medical record for at least 5 patients.
2. Physical examination skills: Complete a pertinent physical examination for the evaluation of pregnant patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.
3. Knowledge/diagnostic and treatment skills: Know about common medical and surgical conditions affecting the fetus and mother.
4. Procedural skills: Observe and assist in common procedures including vaginal delivery, operative vaginal deliver (including caesarian sections), ultrasound, amniocentesis.
5. Attitude: Demonstrate professional responsibility in working as a team member with other members of the Ob/Gyn care team, patients, and families.
Acting Internship in Obstetrics and Gynecology –Continued

Clerkship Director: Susan Yarian, M.D.

Gynecological Objectives

1. To gain experience in the diagnostic and therapeutic approaches for various gynecologic conditions.
2. To expand basic knowledge with reading materials and case discussions as well as direct patient care.
3. To enhance interpersonal skills and professional conduct in female patient encounters.
4. To hone procedural skills.
5. To develop triage skills, indications for inpatient versus outpatient management and referral for specialty or subspecialty consultation.
6. To receive mentorship and/or research opportunities in the specialty.
Acting Internship

Acting Internship in Gynecology Oncology
Clerkship Director: Aileen Caceras, M.D.

MDI 8164 2

Full-time (4 weeks)
(OH) Winnie Palmer Hospital for Women & Babies
Grading Basis: ABCF
Primary Faculty Supervisors: Dr. Veronica Schimp & Dr. Alan Gordon
Contact person: Sandra Ingram, GME Coordinator,
Sandra.ingram@orlandohealth.com
Maximum Enrollment: 1 each block (except July)

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

Experience on a gynecologic service, including operating room, inpatient and outpatient care; team management approach to gynecologic cancer patients, treatment and follow-up of invasive gynecologic malignancies, etiology and risk factors for gynecologic neoplasias, pre-and post-operative evaluation and treatment of gynecologic neoplasias. Research project encouraged. This course is designed to provide the student with in-depth exposure and experience in gynecologic oncology. The student will be an integral part of the team and as such will be involved in the assessment, management and follow-up of patients admitted to the GYN oncology service. The student will participate in daily work rounds with house staff and attending faculty, teaching rounds where patients are presented and treatment plans developed. In addition to participation in the surgical management of women with gynecologic malignancies, students will also be exposed to the outpatient setting, including colposcopy and outpatient management of oncology patients.

Objectives:
1. History skills. Gather the important information that is needed for Gyn/oncology history and complete a history in the medical record for at least five patients.
2. Physical examination skills. Complete a pertinent physical examination for the evaluation of gynecologic cancers on at least five patients. The student should demonstrate the ability to perform this pertinent physical examination while being observed by at least one attending or resident.
3. Knowledge/diagnostic and treatment skills: Know about common oncology conditions.
4. Procedural skills. Observe procedures, such as cervical colonization, colposcopy/LEEP, hysterectomy, hysteroscopy and laparoscopy.
Acting Internship

Acting Internship in Gynecology Oncology Continued
Clerkship Director: Aileen Caceras, M.D.

5. Attitude: Demonstrate professional responsibility in working as a team member with other members of the Gyn/Oncology care team, patients and families.
Acting Internship in General Pediatrics, Inpatient
Clerkship Director: Colleen Moran-Bano, M.D.

MDI 8400 1
Full-time (4 weeks)  
(FH) Florida Hospital  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Nira Patel  
Contact person: Karen Koster, (407) 303-2888; Karen.Koster@flhosp.org  
Maximum Enrollment: 1 each block  
First Day: Report to 7South in the Florida Hospital for Children. Find the Pediatric Senior resident – phone 407-951-0665 @ 8:00 am

MDI 8400 2
Full-time (4 weeks)  
(OH) Arnold Palmer Hospital for Children  
Grading Basis: ABCF  
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation  
Primary Faculty Supervisor: David Skey  
Contact person: Sandra Ingram, GME Coordinator (321) 841-3715; Sandra.ingram@orlandohealth.com  
Maximum Enrollment: 1 each block  
**This rotation is only open to students who are planning to specialize in Pediatrics.

MDI 8400 7
Full-time (4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Robert Karch, Robert.karch@nemours.org  
Contact person: Tiffany Baulkman, (407) 567-3224; Tiffany.Baulkman@nemours.org  
Maximum Enrollment: 1 each block  
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This elective is designed to acquaint the student with the management of acute pediatric illness in the hospital setting. The student will learn to manage the severely ill child, including fluid and electrolyte management, ordering and interpretation of appropriate diagnostic tests and procedures, as well as strategies to manage the complexities of dealing with the hospitalized child and the psychosocial issues surrounding the hospitalization. The student will also learn to become an effective part of the health care team.
Acting Internship in General Pediatrics, Inpatient continued

**Objectives:**

1. Demonstrate proficiency in the management of the severely ill child, including fluid and electrolyte management.
2. Order and interpret appropriate diagnostic tests and procedures.
3. Demonstrate proficiency in the performance of basic pediatric procedures.
4. Demonstrate proficiency in counseling ill children and their families, including patient education.
5. Describe strategies for managing the complexities of dealing with the hospitalized child and psychosocial issues surround the hospitalization.
6. Demonstrate effective collaboration skills in a health care team.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Acting Internship

**Acting Internship in Pediatric Neurology and Epilepsy**
Clerkship Director: Michael Bellew, M.D.

MDI 8470 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) Orlando Health
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. David Skey
Contact person: Kay Taylor, ARNP
(407) 448-2253; ktaylor@pediatricneurologyPA.com & majRDavis@aol.com
First Day: Report to Neurology and Epilepsy Center of Central Florida, 7485 Sandlake Commons Blvd., Orlando, Fl 32819 @ 8:45 am
Maximum Enrollment: by permission only

MDI 8470 7
Full-time (4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Richard Finkel,
Richard.finkel@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am
Maximum Enrollment: 1 per block

Evaluate the treatment of inpatient & outpatient Pediatric Neurology patients, with exposure to acutely ill patients in ICU to evaluations of Epilepsy/Seizures, Movement Disorders, and Headache. Exposure and instruction in reading and interpreting EEGs, MRIs, CTs, and Long Term EEGs. Exposure to presurgical Epilepsy evaluations and outcome reflections in OR.

Objectives:
1. Obtain appropriate/focused Neurologic history.
2. Provide complete Neurologic & Mental Status Exam.
3. Evaluate and form Treatment Plan for new and follow up patients both inpatient & outpatient settings, including ICU patients.
4. Learn basic EEG reading/interpretation
5. Provide support via phone to ER & around region inpatients who present with Neurologic issues.
6. Learn how to select and work up patient for Epilepsy surgery.
Acting Internship

Acting Internship in Neonatal ICU
Clerkship Director: Colleen Moran-Bano, M.D.

MDI 8461 1
Full-time (4 weeks)
(FH) Florida Hospital
First Day: Report to 2nd floor NICU @ 7:30 a.m.
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Stacy McConkey, stacy.mcconkey.md@flhosp.org
Contact person: Karen Koster, (407) 303-2888; karen.koster@flhosp.org
Maximum Enrollment: 1 each block

MDI 8461 7
Full-time (4 weeks)
(NCH) Nemours Children’s Hospital
First Day: Report to Nemours Children’s Hospital
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Caroline Chua, caroline.chua@nemours.org
Contact Person: Tiffany Baulkman, tiffany.Baulkman@nemours.org;
Maximum Enrollment: 1 per block

This elective is designed to expose the student to normal physiology and a wide variety of diseases that affect the term and pre-term infant. Patient care activities will take place in the Neonatal Intensive Care unit, where the student will learn to become an integral part of the healthcare team. Skills learned during the rotation will include evaluation, diagnosis and treatment of the critically-ill newborn, proper use of ventilator management, and understanding the factors that contribute to a “high-risk” pregnancy. The student will also learn counseling skills and discussion of ethical issues that arise in the care of the critically-ill newborn.

Objectives:
1. Demonstrate proficiency in healthcare principles for the care of the critically-ill newborn (e.g., evaluation, diagnosis, and treatment).
2. Explain or demonstrate the proper use of ventilator management.
3. List the factors that contribute to a “high-risk” pregnancy.
4. Demonstrate proficiency in assisting in the performance of specialized procedures.
5. Demonstrate counseling skills in care conferences with parents regarding their critically-ill newborn.
6. Discuss ethical issues that arise in the care of the critically-ill newborn.
7. Demonstrate team skills in the neonatal intensive care unit.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Acting Internship

Acting Internship in Psychiatry
Clerkship Director: Martin Klapheke, M.D.

MDI 8840 3
Full-time (4 weeks)  First Day: Report to the Lake Nona VA Walk-In Clinic
(VA) Lake Nona VA on the 2nd floor in the Mental Health Clinic @ 8:00 am
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Jorge Dorta-Duque
Contact person: Joann Steinebach (407) 599-1599 x7402; joann.steinebach@va.gov
Maximum Enrollment: 1 each block

Increased level of responsibility for clinical assessment and treatment planning in Walk-In/Triage Clinic at V.A. Additional responsibilities for teaching 3rd year medical students.

Objectives:
1. Perform and document a complete psychiatric diagnostic evaluation in a patient population with a high level of acuity of treatment needs, identifying psychopathology, and developing appropriate biopsychosocial evaluation (laboratory, radiologic, and psychological testing) and treatment plans.
2. Appropriately utilize the indications for psychiatric hospitalization, considering presenting problem and its acuity, risk of danger to patient or others, community resources, and family support; when necessary, help implement the process of involuntary hospitalization.
3. Demonstrate the ability to appraise and assimilate scientific evidence, utilizing relevant databases of psychiatric evidence-based medicine, to improve patient care and teach 3rd year medical students rotating in Psychiatry.
4. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals and students.
Acting Internship

Acting Internship in Psychiatry V.A. Residential Care at Domiciliary

Clerkship Director: Martin Klapheke, M.D.

MDI 8835 3
Full-time (4 weeks)
(VA) VA Lake Nona
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Richard Carter
Contact person: Joann Steinebach (407) 599-1599 x 7402; joann.steinebach@va.gov
Maximum Enrollment: 1 each block

First Day: Report to Lake Nona DOM @ 8:00am
Meet with Dr. Patrick Dean for orientation. Please review the First Day Reporting Instructions document found on the M4 GPS site. Students should email Medical Education Coordinators to get computer access codes.

Goal is to assume increased responsibility for Psychiatry intake assessments and treatment planning and delivery for patients in residential care at the V.A. Domiciliary. This patient population has high rates of homelessness, PTSD, and substance-related disorders, and the student will gain valuable clinical experience in these and other psychiatric conditions. No on-call. No weekend duties.

Objectives:
1. Perform and document complete psychiatric diagnostic evaluations in a residential care patient population with high levels of homelessness, PTSD, and substance-related disorders, and developing appropriate biopsychosocial evaluation and treatment plans.
2. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.
3. Know the clinical features of, and help implement treatment for, intoxication with, and withdrawal from alcohol and drugs.
4. Demonstrate the ability to monitor and document patients’ clinical progress, and alter diagnostic formulation and management in response to changes.
Acting Internship

Not Currently Available: Acting Internship in Consultation Liaison Psychiatry
Clerkship Director: Martin Klapheke, M.D.

MDI 8900 3
Full-time (4 weeks) (VA) Lake Nona VA
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Patrick Dean
Contact person: Joann Steinebach (407) 599-1599 x 7402; joann.steinebach@va.gov
Maximum Enrollment: 1 each block

First Day: Report to the Lake Nona VA Consult/Liaison Office @ 8:00 am and meet with Dr. Patrick Dean for orientation. Students should email Medical Education Coordinators to get computer access codes.

M4 Acting Interns will gain progressive clinical responsibilities for the psychiatric assessment and management of patients hospitalized on medical and surgical wards that have concomitant psychiatric conditions. Students will be expected to gain the knowledge and develop the clinical skills necessary to provide effective consultation for medical surgical patients and their treatment teams. These clinical skills include:
1. Diagnostic interviewing and development of a therapeutic alliance in the acute setting
2. Crisis intervention and management
3. Effective communication/liaison with the patient’s primary multidisciplinary treatment team

It is anticipated that clinical conditions the students will encounter will include:
1. Delirium with multifactorial etiologies including psychiatric reactions to medications
2. Mood disorders including Major Depressive Disorder and Bipolar Disorder
3. Posttraumatic Stress Disorder
4. Anxiety disorders including Generalized Anxiety Disorder and Panic Disorder
5. Substance Use Disorders
6. Psychotic Disorders including Schizophrenia
7. Patients with potential dangerousness to self or others
8. Patients with possible lack of decision making capacity
9. Personality Disorders
10. Neurocognitive disorders including Dementia
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Acting Internship

**Acting Internship in Emergency Psychiatry**
Clerkship Director: Martin Klapheke, M.D.

**MDI 8900 3**
Full-time (4 weeks) (VA) Lake Nona VA
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Patrick Dean
Contact person: Joann Steinebach (407) 599-1599 x 7402; joann.steinebach@va.gov
Maximum Enrollment: 2 each block

First Day: Report to the Lake Nona VA Emergency Department @ 8:00 am and meet with Dr. Patrick Dean for orientation. Students should email Medical Education Coordinators to get computer access codes.

M4 Acting Interns will gain progressive clinical responsibilities for the psychiatric assessment and management of patients presenting to the Emergency Department for urgent care. Students will be expected to gain the knowledge and develop the clinical skills (diagnostic interviewing and development of therapeutic alliance in the acute settings; crisis intervention and management) necessary for patients presenting with acute psychiatric conditions, including:

1. Potential dangerousness to self or others
2. Acute, severe, major depressive disorder
3. Acute psychosis, including Bipolar disorders and Schizophrenia
4. Acute substance abuse intoxication/withdrawal
5. Acute anxiety/agitation, including PTSD
6. Complications of Neurocognitive disorders such as dementia

**Learning Activities**
1. Independent diagnostic interviews of patients.
2. Formal case presentations of individual patients to the attending faculty supervisor, including discussion of differential diagnoses and proposals of appropriate workup and biopsychosocial treatment plans.
3. Assist with implementation of management plan, including helping arrange outpatient follow-up or hospital admission when indicated.
4. Conduct literature reviews of current evidenced-based treatments for a range of acute psychiatric conditions.
Acting Internship

**Not Currently Available: Acting Internship in Advanced Psychiatric Therapies**

Clerkship Director: Martin Klapheke, M.D.

MDI 8833 9

Full-time (4 weeks)  
(PO) La Amistad Behavioral Health Services  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Karl Sieg  
Contact person: Dr. Karl Sieg  
(407) 647-0660; kgsieg@yahoo.com

First Day: Report to La Amistad Behavioral Health Services, 1650 Park Avenue N., Maitland, FL 32751, Administrative Offices @ 10:00 a.m.

Maximum Enrollment: 1 each block (Requires Consent of Instructor)

Fourth Year students interested in a Psychiatric career will gain clinical experience with a broad range of patients with treatment-resistant psychiatric conditions: patients will be of all ages (children, adolescents, adults), will be in a continuum of care (residential, day programs, and therapeutic school), and will present with a wide range of psychiatric comorbidities (e.g., mood, psychotic, anxiety, and substance abuse disorders). There will be no formal on call schedule but the student may participate in weekend rounds at Dr. Sieg’s discretion.

**Objectives:**

1. Identify psychopathology, formulate accurate differential and working diagnoses utilizing DSM-IV, assess patients’ strengths and prognosis, and develop appropriate biopsychosocial evaluation and treatment plans for patients with treatment resistant psychiatric comorbidities.

2. Summarize the indications and contraindications, basic mechanism of action, pharmacokinetics and pharmacodynamics, efficacy and cost, common and serious side effects, toxicity, drug-drug and drug-disease interactions, and issues relevant to special populations, of each class of psychotropic medications and demonstrate the ability to select and use these agents in treatment-resistant patient populations.

3. Know the clinical features of, and treatment of, intoxication and withdrawal from alcohol and drugs, as well as relapse prevention techniques.

4. Understand the principles, techniques, and indications for effective psychotherapies and behavioral medicine interventions in patients with treatment-resistant psychiatric conditions.

5. Demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals.
Acting Internship

**Acting Internship in General Surgery**

**Clerkship Director:** Matthew Lube, M.D.

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**MDI 8600 2**

**Full-time (4 weeks)**

(Oh)

**Grading Basis:** ABCF

**First Day:** Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

**Primary Faculty Supervisor:** Dr. Matthew Lube

**Contact person:** Sandra Ingram, GME Coordinator (321) 841-3715; Sandra.Ingram@orlandohealth.com

**Maximum Enrollment:** 1 each block

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**MDI 8600 1**

**Full-time (4 weeks)**

(FH)

**Grading Basis:** ABCF

**First Day:** Report to 601 E. Rollins St., Ginsberg Tower @ 7:00 am for morning rounds. Contact Julie Talmidge at (407) 227-3500 for exact location. For program orientation report to 2501 N. Orange Ave, Suite 235 @ 8:30 am.

**Primary Faculty Supervisor:** Dr. Alric Simmonds

**Contact person:** Maria Cepero, Residency Coordinator, (407) 303-7203; Maria.cepero@flhosp.org

**Maximum Enrollment:** 1 each block (June, July, August, September only)

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The University Of Central Florida College Of Medicine M4 Acting Internship in General Surgery will build upon the M3 experience in General Surgery and further explore the workup, diagnosis, treatment and follow up of a wide variety of surgical diseases. Evidence based practices will be emphasized. The student will spend 4 weeks on the General Surgical Service at either Orlando Regional Medical Center or Florida Hospital. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. In house call will be a requirement and will be no more than twice per week and may include weekend call and weekend ward rounds. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

**Objectives:**

**Medical Knowledge**

1. Be able to discuss the basic evaluation and treatment of benign and malignant breast disease, cutaneous malignancies, abdominal wall hernias, gallbladder disease and other acute inflammatory intra-abdominal conditions.

2. Understand the principles and rationale for management of surgical patients to include the preoperative assessment and management as well as postoperative care. Examples include assessment of patient risk, appropriate selection of patients for surgery, knowledge of anesthetic options, and principles of postoperative pain management and wound care.

3. Understand the general principles of laparoscopy. Examples include the physiologic consequences of pneumoperitoneum.

4. Understand the pathology as it relates to surgery.

5. Be knowledgeable of the anatomy of the abdomen, chest, neck and vascular tree.
Acting Internship in General Surgery –Continued
Clerkship Director: Matthew Lube, M.D.

6. Be knowledgeable with regard to the physiological basis of the disease process, fluid and electrolytes, nutrition, wound healing and organ function.

Patient Care
1. Accurately perform a complete history and physical examination in patients with common surgical problems and present patients to the attending and/or senior resident.
2. Participate in daily rounds and management of inpatients.
3. Demonstrate an understanding of the principles of surgical decision-making.
4. Efficiently utilize and interpret diagnostic laboratory testing. Examples of appropriate tests include serum chemistries, hematological profiles, and coagulation tests.
5. Efficiently utilize and interpret diagnostic radiological tests. Examples of the types of studies include mammography, gallbladder ultrasonography (US), plain film radiology tests and computed tomography (CT).
6. Under appropriate supervision, assist in basic surgical procedures such as: open lymph node biopsy (cervical, axillary, groin), hernia repair (inguinal, femoral, umbilical) excision of small subcutaneous masses, and laparoscopic cholecystectomy and appendectomy.
7. Under appropriate supervision, perform basic surgical procedures such as: Tracheal intubation, placement of venous access devices, removal of cutaneous lesions, routine wound closure.
8. Assist the resident physicians in the discharging of patients, including dictating the discharge summary, writing prescriptions, and ensuring appropriate follow-up.
9. Attend and participate in weekly outpatient clinics. Activities will include examination and evaluation of new patients and postoperative care of established patients.

Interpersonal and Communication Skills
1. Develop skill and sensitivity for appropriate counseling and educating patients and their families in a variety of clinical situations.
2. Work effectively with the health care team and/or other professional groups.
3. Effectively and promptly document practice activities.
4. Present all patients in a concise, organized, logical and knowledgeable manner.
5. Exhibit the ability to interact as part of the surgical team.
6. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

Practice-Based Learning and Improvement
1. Use books, journal articles, internet access, and other tools available to learn about diseases and treatments.
2. Recognize the importance of lifelong learning in surgical practice by analyzing personal practice outcomes to improve patient care.
Acting Internship in General Surgery—Continued
Clerkship Director: Matthew Lube, M.D.

Systems-based Practice
1. Observe and learn the process of working with nursing, social work, home health, pharmacy, radiology, acquisition of test results, operating room (OR) scheduling, recovery room staff, and discharge planning.
2. Demonstrate an understanding and commitment to continuity of care by development of a patient care plan including timing of return to work and appropriate follow-up.
3. Understand the appropriate utilization of consultations from other surgical and medical specialties in a timely and cost efficient manner to facilitate and enhance patient care.

Professionalism
1. The student should demonstrate a high level of initiative and self-motivation during this rotation. They should be well read and prepared prior to any surgical procedure to include clinical knowledge of the patient. They should be dependable in completing assigned tasks. The student should demonstrate professional interpersonal skills when dealing with patients, staff, and other residents and attending physicians.
2. Understand the ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, and informed consent.
3. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.
4. Demonstrate accountability for actions and decisions.

Procedures
Medical students at the M4 level will take on the role as first assistant to senior resident physicians and attendings in the following:
1. Hernia repairs in the groin and umbilicus, demonstrating a basic understanding of the anatomy and surgical repair.
2. Further develop the skills in basic suturing, knot tying, retracting, and assisting during surgery that the student was exposed to during the M3 year.
3. Insertion of central lines, arterial lines, NG tubes, and Foley catheters.
4. Assist and sometimes perform less complicated surgical procedures such as: appendectomy, hemorrhoidectomy, and minor breast procedures.
5. Procedures for melanoma and other benign and malignant skin lesions.
6. Assist and sometimes perform common diagnostic biopsy procedures such as Fine-needle aspiration, Tru-Cut needle biopsy, & excisional biopsies of smaller tumors, e.g. melanoma, breast lesions and superficial lymph nodes.
7. Continue to develop an understanding of the function of surgical instruments (i.e. scalpel, forceps and scissors).
8. Continue to develop an understanding of the use of electrocautery.
Acting Internship in Pediatric Orthopedic Surgery

MDI 8570
Full-time (4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. John Lovejoy III,
John.lovejoy@nemours.org
Contact Person: Tiffany Baulkman, (407) 567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This rotation is intended for the student with interest in Orthopedic Surgery. The student will function at the level of a junior house officer and be expected to perform clinical activities with independence and procedures under direct supervision. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as major operations. The student will be expected to present in the pediatric orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 day per week and 1 weekend day per rotation.

Learning Objectives

Patient Care:
1. Recognize common pediatric orthopedic surgical problems and emergencies in children.
3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient settings.
4. Assist in preparing patients for discharge.

Medical Knowledge:
1. Learn the fundamentals of basic science in pediatric orthopedic surgery.
2. Learn pediatric orthopedic common diagnoses and their management.
3. Read for the operative cases and be prepared for the operating room.
4. Understand the pathology of pediatric orthopedic disease.
5. Understand diagnostic tests commonly used in pediatric orthopedic patients.
6. Practice evidence-based medicine in reviewing the literature.

Practice-Based Learning and Improvement:
1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.


Acting Internship in Pediatric Orthopedic Surgery continued

2. Document patient care activities in the medical chart in a timely fashion.
3. Utilize electronic educational resources.

Interprofessional and Communication Skills:
1. Learn to communicate well with families and children.
2. Learn to interact with surgical team.
3. Work well with other members of the health care team.

Professionalism:
3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.
4. Maintain accountability for personal actions and decisions.

Systems-Based Practice:
1. Learn to communicate appropriately with families under the direction of Faculty.
2. Learn to communicate with the health care team members about the surgical patients.

Learning Activities:
The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric surgery clinic, and participate in the surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.
Acting Internship in Colon and Rectal Surgery

Clerkship Director: Matthew Lube, M.D.

MDI 8676 2
Full-time (4 weeks)
(OH) Orlando Health
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Joseph Gallagher
Contact person: Sandra Ingram, GME Coordinator
(321) 841-3715; Sandra.ingram@orlandohealth.com;
Nancy Joiner, NJoiner@crorlando.com
Maximum Enrollment: 1 each block
First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

MDI 8676 1
Full-time (4 weeks)
(FH) Florida Hospital, South
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Matthew Albert
Contact person: Leslee Cunnion, Residency Coordinator,
(407) 303-5191;
leslee.cunnion@flhosp.org
Maximum Enrollment: 1 each block

The University Of Central Florida College Of Medicine M4 Acting Internship in Colon and Rectal Surgery will build upon the M3 experience in General Surgery and further explore the workup, diagnosis, treatment and follow up of a wide variety of surgical diseases involving the colon, rectum and anus. There will a broad experience caring for patients with inflammatory bowel disease. Evidence based practices will be emphasized. The student will spend 4 weeks on the colon and rectal surgical service. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. Call will occur from home and will occur no more than twice per week and may include weekend call and weekend ward rounds. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

Objectives:
Medical Knowledge
1. Learn fundamentals of basic science as they apply to the clinical practice of colorectal surgery. Examples include in knowledge of anorectal anatomy, normal colonic function, risk factors for colorectal cancer, tumor markers, patterns of metastatic spread, etiology of perirectal abscess, and pathology of inflammatory bowel disease.
2. Understand GI anatomy and physiology, GI diseases, diagnosis and management and risks and complications of GI endoscopy.
3. Understand the indications and recommendations for surveillance and diagnostic endoscopy.
4. Develop a meaningful differential diagnosis and appropriate diagnostic plan for the evaluation of common colorectal disorders.

**Acting Internship in Colon and Rectal Surgery—Continued**

**Clerkship Director:** Matthew Lube, M.D.

5. Develop knowledge of surgical pathophysiology, pharmacology, physiology in diagnosing and managing the patient with colorectal disease.
6. Formulate a minimal diagnostic and treatment plan for colorectal disease requiring surgical intervention.
7. Understanding of the roles of surgery, chemotherapy, and radiation therapy as measures in the total management of the colon cancer patient.
8. Develop some understanding of the roles of surgery and pharmacology in the total management of patients with inflammatory bowel disease.

**Patient Care**

1. Assist the resident staff with elective admissions to the service; perform an accurate history and physical examination.
2. Assist in the performance of basic surgical procedures such as flexible and rigid proctoscopy, anoscopy, anorectal procedures, and routine wound closure.
3. Arrive in the OR prepared for the procedure.
4. Assist in the discharging patients.
5. Attend and participate in continuity of care clinics: examination and evaluation, peri and post-operative care, and surgical consultations under resident and attending supervision.
6. Develop a working knowledge of the common colorectal disorders encountered and managed in the outpatient setting.

**Interpersonal and Communication Skills**

1. Develop skill and sensitivity for appropriate counseling and educating patients and their families in a variety of colorectal disease.
2. Work effectively with others.
3. Effectively and promptly document practice activities.
4. Presents all patients to the attending in a concise, organized, logical and knowledgeable manner.
5. Prepare and present presentations as assigned.

**Practice-Based Learning and Improvement**

1. Use books, journal articles, and internet access to learn about diseases and treatment of patients with colorectal pathology and to support own education.
2. Attend outpatient colorectal clinics at least one day per week.
3. Attend all colorectal and general surgery conferences.

**Systems-based Practice**

1. Effectively communicate with patients, families, nurses, OR techs, anesthesiologist, pharmacy, home health, and other allied health care personnel.
2. Learn how types of medical practice and delivery systems differ from one another, including methods and controlling health care costs and allocating resources.

**Professionalism**
1. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.
2. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

**Acting Internship in Colon and Rectal Surgery—Continued**

*Clerkship Director: Matthew Lube, M.D.*

**Procedures**

The fourth year medical student will have the opportunity to observe and assist in the performance of flexible sigmoidoscopy and colonoscopy. They will develop a sound knowledge base of the indications and contraindications for various endoscopic procedures. The opportunity will exist to observe and assist on a wide variety of surgical procedures performed under local and general anesthesia.
Acting Internship

**Acting Internship Pediatric Surgery**  
Clerkship Director: Matthew Lube, M.D.

MDI 8490 2  
**Must be scheduled through VSAS**  
Full-time (4 weeks)  
(OH) Arnold Palmer Hospital for Children  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Donald Plumley  
*Contact person: Sandra Ingram, GME Coordinator  
(321) 841-3715; Sandra.ingram@orlandohealth.com*  
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St.,  
1st floor lobby, Orlando, Fl @ 10:00 am where you will  
meet with Sandra Ingram and Alexander Arismendi.  
You should expect to receive a reminder email from  
Mr. Arismendi before the start of the rotation

MDI 8490 7  
Full-time (4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Tamarah Westmoreland, tamarah.westmoreland@nemours.org  
*Contact person: Tiffany Baulkman, (407) 567-3224;  
tiffany.Baulkman@nemours.org*  
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

The University Of Central Florida College Of Medicine M4 Acting Internship in Pediatric Surgery will further expose the student to the workup, diagnosis, treatment and follow up of a wide variety of pediatric surgical diseases. Evidence based practices will be emphasized. The student will spend 4 weeks on the pediatric surgical service. Students will be responsible for the evaluation and workup of patients in the emergency room and wards as well as in the outpatient setting. Participation in daily inpatient multidisciplinary ward rounds will be emphasized as well as active participation in a wide array of bedside surgical procedures and major operative interventions under general anesthesia. In hospital call will be a requirement and will occur no more than twice per week and may include weekend call. The student will also be responsible for regular attendance at weekly didactic conferences, grand rounds, journal club conferences and morbidity and mortality conferences and simulator/animal lab experiences when offered.

**Objectives:**

**Medical Knowledge**

1. Learn the fundamentals of basic science as applied to pediatric surgery. Examples include embryologic development of the peritoneal cavity, normal rotation and fixation of the abdominal viscera, the physiologic changes of birth, fluid, and electrolyte requirements by weight, normal physiologic parameters in newborns and children, and major physiologic differences of babies and children compared to adults.

2. Recognize common surgical problems and emergencies in newborns. Examples include: omphalocele, gastroschisis, imperforate anus, meconium ileus, Hirschsprung’s disease, pyloric stenosis, and undescended testis.
Acting Internship Pediatric Surgery—Continued

3. Recognize common surgical problems and emergencies in children. Examples include: inguinal hernia, hydrocele, intestinal intussusception, and appendicitis.

4. Utilize appropriate diagnostic laboratory procedures as applied to pediatric surgery patients ex: arterial blood gas analysis, hematologic profiles and coagulation assessment, hepatic function tests, and serum chemistries.

5. Utilize appropriate diagnostic imaging studies in infants and children ex: chest radiographs, abdominal ultrasonography, and contrast studies of the esophagus, stomach, intestine, and colon.

6. Understand the physiology, fluid and electrolytes, nutrition, pulmonary function and hemodynamics of children.

7. Understand the pathology of pediatric disease, pediatric anatomy and special pharmacology aspects of pediatrics.

8. Assist in the management of the pediatric trauma patient.

Patient Care

1. Recognize surgical complications (i.e. post-operative fever, abdominal pain, airway distress, GI obstruction and bleeding).

2. Assist in the workup of new admissions, including history and physical examination appropriate for age, calculation of fluid requirements, and development of a plan.

3. Assist in the care of all inpatients on the pediatric service, including daily assessment, evaluation of new problems, and preoperative preparation.

4. Assist in the initial evaluation of all consults in the emergency department and on other hospital services.

5. Arrive in the OR prepared for the procedure.

6. Assist in the process of discharging patients.

Interpersonal and Communication Skills

1. Work effectively with the health care team and/or other professional groups.

2. Present all patients in a concise, organized, logical and knowledgeable manner.

3. Utilize input from collaborative interactions with those contributing to patient care.

4. Exhibit the ability to interact as part of the surgical team.

5. Exhibits honesty, reliability, good communication skills, and appropriate judgment.

Practice-Based Learning and Improvement

1. Use textbooks, journal articles, internet access, and other available tools to learn about diseases of infants and children.

2. Effectively and promptly documents practice activities.

Systems-Based Practice

1. Communicate with families, under the supervision and guidance of the senior resident and attending.

2. Communicate with nurses, physician extenders, social workers, and allied health care personnel about the care of pediatric surgery patients.

3. Appreciate the specific needs of infants and children that are different from those of adults.

Professionalism

1. Demonstrate respect, compassion and integrity and a dedication to professionalism and life-long learning.

2. Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, confidentiality of patient information, informed consent, and business practices.

3. Demonstrate sensitivity and responsiveness to patients’ culture, age, gender, and disabilities.

4. Demonstrate accountability for actions and decisions.
Acting Internship

Acting Internship in Neurosurgery
Clerkship Director: Michael Bellew, M.D.

MDI 8650 1
Full-time (4 weeks) (FH) Florida Hospital South
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Michael Bellew
Michael.bellew@ucf.edu
Contact person: Vanessa Wise
407-303-0204; vanessa.wise@ucf.edu
Maximum Enrollment: By permission

First Day: Three weeks prior to the start of the rotation email Vanessa Wise and Dr. Bellew to arrange a meeting to discuss individual goals and objectives. Report to Florida Hospital South Angio Lab @ 6:00 am

The 4th year student is expected to function at the level of an intern. Responsibilities include initial patient evaluation in the emergency department, clinic, and inpatient setting; continuity of care through inpatient rounding; development of surgical technique; and call / weekend duties averaging 1 in 4. Rounds are conducted daily. Weekly conferences include Neuro ICU Medical Director Rounds, and Tumor Board. The student is expected to write a case report or focused literature review.

Objectives:

1. Manage elevated intracranial pressure and status epilepticus.
2. Recognize neurosurgical emergencies involving the brain, spine, and peripheral nerves.
3. Develop a strategy to recommend a “next step” at all time points of patient management.
Acting Internship in Clinical Neurological Ophthalmology

MDI 8900 9  
Full-time (4 weeks)  
(P.O) Medical Eye Associates  
Grading Basis: ABCF  
Primary Faculty Supervisor: Dr. Mont Cartwright  
rockerdoc@aol.com  
Contact person: Anita Miller, (407) 933-7800 ext. 130; amiller@eyedoc.com; Peter Sefcik, marketing@medeyedoc.com  
Maximum Enrollment: 2

First Day: Contact Anita Miller 2 weeks before the start of the rotation. On the first day report to Medical Eye Associates at 921 Main St., Kissimmee, FL 34744 @ 8:00 am.

The neuro-ophthalmology rotation is designed for medical students who are interested in ophthalmology as a specialty. This course introduces students to neuro-ophthalmology. Students will observe patients with Dr. Mont Cartwright, and gain exposure to Humphrey and Goldmann visual fields, optical coherence tomography, fundus photography, and the neuro-ophthalmologic exam. The rotation offers direct one-on-one teaching with Dr. Cartwright. As opposed to other ophthalmic rotations, no particular additional skill other than those already possessed by a typical medical student (e.g., handlight, direct ophthalmoscope, confrontation visual fields and mortality assessment) are required for the rotation. The rotation also might be suitable for medical students interested in neurology, neurosurgery, neuroradiology, or interventional radiology, as there is considerable overlap in these fields with neuro-ophthalmic patients.

Learning Activities:

The student time commitment shall be from Monday to Friday, 8:00 am to 5:00 pm. There is no mandatory student call, night, after hours, or weekend responsibility. Journal club weekly, hospital rounds, clinic outpatients, hospital/ambulatory surgery assistance/observation, one-on-one interaction with instructor. No pre-requisite readings are required but students may be asked to research small case vignettes or present at ophthalmology grand rounds during the rotation.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Acting Internship

Acting Internship in Oculo-Facial Plastic and Reconstructive Surgery

MDI 8900 9
Full-time (4 weeks)
(PO) Medical Eye Associates
Grading Basis: ABCF
Primary Faculty Supervisor: Dr. Mont Cartwright
marketing@medeyedoc.com
Contact person: Anita Miller, (407) 933-7800 ext. 130; amiller@eyedoc.com; marketing@medeyedoc.com
Maximum Enrollment: 1

First Day: Contact Anita Miller 2 weeks before the start of the rotation. On the first day report to Medical Eye Associates at 921 Main St., Kissimmee, FL 34744 @ 8:00 am.

This rotation will provide greater exposure to diagnosis, management and surgical correction of ophthalmic and reconstructive disorders.

Goals of the rotation:

- The overall goal and objective is the complement the basic knowledge gained in the ophthalmology program and to provide greater exposure to the diagnosis, management, and surgical correction of ophthalmic plastic and reconstructive disorders.
- During this rotation, the students will be responsible for the day-to-day management of patients. The rotation will provide education in the care and management of patients. The student will have the opportunity to become knowledgeable about the procedures in oculo-facial plastic and reconstructive surgery.
- The focus of patient care will be on all aspects of patient’s that are treated by oculo-facial plastic and reconstructive surgery. The student will be actively involved with teaching rounds, clinical care conferences, journal club, radiology conferences, follow up clinic, and multidisciplinary planning. The student is expected to make a case presentation or journal club at the end of their rotation.
- Provide a well-rounded experience with emphasis on basic principles, techniques, patient selection and patient management. Students will participate in outpatient settings with the emphasis on outpatient experience.

Learning Objectives:

The medical student is expected to provide family-centered patient care that is compassionate, appropriate and effective for the promotion of health, prevention of illness, and treatment of disease. The medical student will interact with the oculo-facial plastic and reconstructive surgeon using evidence based decision-making and problem-solving skills. Acting interns should have experience in the following specific areas

(a) Anatomy and physiology of the orbit, eyelids, lacrimal system, nose, sinuses, and head and neck

(b) Common orbital disorders of adults including orbital cellulitis, thyroid orbitopathy, idiopathic orbital inflammation, vasculitis, congenital tumors, vascular tumors, neural tumors, lacrimal gland tumors, fibro-osseous tumors, histiocytic diseases, lymphoid tumors, metastatic tumors, blunt and penetrating trauma, orbital and facial fractures, an ophthalmic socket problems and skull base disease
Acting Internship in Oculo-Facial Plastic and Reconstructive Surgery
Continued

(c) Eyelid including congenital syndromes, inflammation, trauma, ectropion, entropion, trichiasis, blepharoptosis, eyelid retraction, dermatochalasis, blepharochalasis, eyelid tumors, blepharospasm, facial nerve palsy, eyebrow, midface and lower face function and aesthetics, and histology and pathology of the facial skin including medical and surgical management of these conditions

(d) Regional anatomy including graft donor sites frequently used such as cranial bone, ear, nose, temporal area, mouth and neck, abdomen, buttocks, legs, supraclavicular area and arm.

(e) Fundamentals of ocular and orbital anatomy, chemistry, physiology, microbiology, immunology, and wound healing;

(f) Experience in neuroradiology for radiologic interpretation of images (CT, MRI, MRA, arteriography, ultrasound)

(g) Ocular Pathology to interpret ocular and periocular pathology and dermatopathology

(h) Understanding and interpreting imaging techniques;

(i) The principles of plain films, CT, MRI, and ultrasound imaging relating to the head and neck with particular emphasis on the orbit;

(j) The type of scan/imaging to order, given the clinical setting and be able to read the film or scan; and,

(k) Skills in the use of information technology for study of reference material, including electronic searching and retrieval of relevant miicles, monographs, and abstracts.

(l) Demonstrate consistent skill in gathering accurate, essential information from all sources, including medical interviews, medical records, and diagnostic/therapeutic procedures

(m) Gain competence in the physical examination of oculo-facial plastic and reconstructive surgical candidates
Acting Internship

Acting Internship in Allergy / Asthma / Immunology

MDI 8300                     First Day: Report to Anderson Allergy & Asthma, 63 W.
Full-time (4 weeks)     Underwood St., Orlando 32806 at 9:00 am
(PO) Anderson Allergy & Asthma
Grading Basis: ABCF**
Primary Faculty Supervisor: Dr. Michael Anderson
Contact Person: Cheryl Bergin, 407-872-1110 ext. 111;
Cheryl@andersonallergy.com
Maximum Enrollment: 1 per block

This rotation will expose the student to commonly encountered problems in allergy such as sinus illness, skin disorders, asthma & immune deficiencies. The student will do initial work ups including history and physical to present patients to myself and nurse practitioner. They will then learn how to manage these problems.

Goals Objectives:
- Recognize clinical patterns of common allergic disease such as allergic rhinitis & asthma. Learn the proper methods of work ups & evaluations.

Learning Activities
The student will each day interview new patients then present their history and physical, suggest testing options, then therapeutic options. He will then discuss these options with the MD and help explain these options to the patient. Follow up appointment with his patient will be arranged for continuing care.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

ELECTIVES
INTER-
DEPARTMENTAL
UNIVERSITY OF CENTRAL FLORIDA  
COLLEGE OF MEDICINE  
FOURTH YEAR (M4)

ELECTIVES  
Interdepartmental

4th Year Elective in Patient Safety  
Clerkship Director: Bethany Ballinger, M.D.

MDE 8035 1  
Full-time (4 weeks)  
(FH) Florida Hospital Celebration  
First Day: Report to FH Celebration Health, 3rd Floor nurse's station at 9:00 am.
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Fortune Alabi & Dr. Fred Umeh  
Contact person: Jacqueline Blanco, CMOM, (407) 507-2615; Jacqueline@floridalungdoctors.com  
Maximum Enrollment: 2-3 each block

This elective is designed to explore the fundamental issues in defining, measuring, and improving healthcare quality and safety. The student will gain an appreciation for how healthcare quality is defined and of the practical application of evidence-based medicine.

It would be of interest to students who are leaders and are considering a career in surgery or any area of hospital based medicine both clinical and administrative. It is a hands-on, practical elective showing how the Safety and Quality concepts, introduced by the WHO patient safety curriculum and delivered in the preclinical years, have practical application to the safer practice of medicine

Objectives:
1. Understand the complex interaction between the health care environment, doctor and patient.
2. Aware of mechanisms that minimize error, e.g., Checklists, clinical pathways.
3. Know the main sources of risk in the clinical workplace.
4. Understand how personal limitations contribute to risk.
5. Promote risk awareness in the workplace.
6. Understand the nature of error and how healthcare can learn from error.
7. Understand the harm caused by errors and system failures.
8. Aware of principles of reporting adverse events.
10. Apply human factor thinking to the workplace environment.
11. Understand the importance of teamwork in healthcare.
ELECTIVES
INTERNAL MEDICINE
The primary goal for the emergency ultrasound point of care elective is to provide the knowledge, skill, and experience to perform focused bedside ultrasound (US) examinations as a means to provide immediate information and answer specific questions about patients’ physical conditions and care.

Objectives:

**Patient Care:** Gather accurate, essential information in a timely manner from all sources, including medical interviews, physical examinations, medical records, and diagnostic/therapeutic procedures. Integrate diagnostic information and generate an appropriate differential diagnosis.

**Medical Knowledge:** Understand the basic principles of medical ultrasonography with the potential risks and benefits to the patient. Demonstrate the ability to appropriately use the ultrasound machine to obtain basic images. Demonstrate the ability to identify basic ultrasound anatomy. Understand the appropriate use of ultrasound in the diagnosis of common medical problems. Demonstrates adequate foundation of knowledge in US applications: FAST, Aorta, Renal, First Trimester Bleeding, Echo, Gallbladder, and Procedural ultrasound.

**Practice Based Improvement:** Locate, appraise, and assimilate evidence from scientific studies related to the health problems of their patients. Use information technology to manage information, access online medical information, and support their own education.

**Interprofessional and Communication Skills:** Demonstrate the ability to respectfully, effectively, and efficiently develop a therapeutic relationship with patients and their families. Demonstrate effective participation in and leadership of the health care team.

**Professionalism:** Arrive on time and prepared to work. Demonstrate appropriate use of symptomatic care. Treat patients/family/staff/paraprofessional personnel with respect. Protect staff/patient’s interests/confidentiality. Accept responsibility/accountability for patient care activities.
The Urology Elective is a collaboration between The Department of Urology at Orlando Health, Florida Hospital, and Nemours Children’s Hospital. After completing the urology rotation you will have improved your ability to evaluate urology patients and formulate a treatment plan. Additionally, you will improve your operative skills and exposure to urologic procedures.

**Objectives:**

1. The medical students along with the mid-level providers are expected to take primary responsibility for all patients on the in-patient and consultation urology service.
   a. Mid-level providers (Physician Assistants and Nurse Practitioners) work on the urology service. The medical students are encouraged to communicate often with the appropriate resident, fellow, or mid-level providers in regard to specific patient care. The attending, resident, fellow, or mid-level providers will assign the medical student tasks.
   b. Students will be assigned in-patients and consults to follow. Prior to going to the OR or clinic in the morning the students are expected to round on their patients along with the urology team. Students should write a progress note but not put it into the patient’s chart. The note should be reviewed with the attending, resident, fellow, or mid-level providers who will write the note in the patient’s chart. This note should include but not be limited to: report on significant events from the previous day/night, laboratory studies, vital signs, intake (oral and IV) and output of fluids (including drains) and physical exam for the past 24 hours. The student should show their progress note to the attending for feedback.
   c. The medical student, resident, fellow, and mid-level providers will be encouraged by each attending physician to work together as a team and divide tasks appropriately in order to better complete the morning’s work.

2. The medical student is expected to experience and participate in the full spectrum of perioperative patient care. The priorities of medical student assignment after completion of morning “rounds” are as follows in order of importance.
   a. **Surgical Procedures:** Specifically the medical student in conjunction with the resident, fellow, and mid-level providers is expected to evaluate emergency and inpatient consultations, form a diagnosis and initial plan, and discuss each with the attending urologist on call. All consultations are to be filled out on the written comprehensive
forms complete with review of systems, physical, pmh, psh, ... The mid-level providers, resident, fellow, or attending will dictate formal consultation note.

3. The medical student is expected to read on the medical condition of the inpatient and consults and the upcoming OR cases. In addition, the student should be familiar with the patient’s history and physical exam, operative indication, and surgical steps proposed for the case being discussed.
ELECTIVES
Internal Medicine

Ambulatory Elective in Cardiology

MDE 8222 8
Full-time (4 weeks) (HF) MIMA
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
*This site is more than 50 miles from the COM
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, FL 32901, 2nd floor Administration @ 8:30 a.m.

Goals are advanced training and responsibility in the care of adult cardiology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Students enrolled in this course will get a basic understanding of common cardiovascular conditions such as CAD, CHF, Dyslipidemias, HTN, Arrhythmias, Dizziness & Syncope, PAD and Venous Disorders. Basic interpretation of Cardiovascular tests like EKG, 2DEcho, Nuclear Stress Test, Carotid Doppler, Arterial Doppler, Holter Monitor, Cardiac CTA. Students get to scrub in cardiac procedures such as diagnostic cath, peripheral angiography, coronary and peripheral interventions performed in the cath lab.
Clinical Cardiology Elective continued

**Learning Activities:**
Seeing patients on all week days 8:30-4:00 pm at the office or at the hospital with the attending. Work up 1-2 new patient consults/day and see 5 F/U visit patients/day. Presentation and discussion of every patient you see and do pertinent literature research on the patient diagnosis you have encountered.
ELECTIVES
Internal Medicine

Cardiology Inpatient/Outpatient at Orlando Heart Center
Clerkship Director: Adam Waldman, M.D.

MDE 8223 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) and Orlando Heart Center
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Adam Waldman & Dr. Joel Garcia

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

Contact person: Dr. Adam Waldman
(407) 650-130; adam.waldman@orlandohealth.com
Maximum Enrollment: 1 each block

The student will develop an understanding of the pathophysiology of cardiovascular disease and learn an approach to the evaluation and treatment of patients with cardiovascular disease. The course provides an in-depth exposure to the diagnosis and treatment of cardiovascular disease in the hospital and out-patient setting through bedside teaching, didactic lectures, conferences, and Grand Rounds.

Objectives:
1. After completion of the course the student will be able to take a detailed history and perform a physical examination tailored to the cardiovascular system to develop a differential diagnosis.
ELECTIVES
Internal Medicine

**Congenital Cardiology**
Clerkship Director: Colleen Moran-Bano, M.D.

**MDE 8225 2**
*Must be scheduled through VSAS*
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisors: TBD

**Contact person:** Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com

Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi.

You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

Goal to understand congenital heart defects including inpatient and outpatient experiences-diagnosis, management, CVICU, CV anesthesia, and OR exposure to patients with congenital heart defects.

**Objectives:**
1. Recognize and understand congenital heart defects and basic management.
ELECTIVES
Internal Medicine

Ambulatory Elective in Endocrinology

MDE 8262 8
Full-time (4 weeks)
(HF) MIMA
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195;
Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, FL 32901, 2nd floor Administration @ 8:30 a.m.

Goals are advanced training and responsibility in the care of adult endocrinology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Ambulatory Elective in Gastroenterology

MDE 8271 8
Full-time (4 weeks)  
(HF) MIMA  
*This site is more than 50 miles from the COM  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: TBD  
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.miller@mima.com  
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 8:30 a.m.

Goals are advanced training and responsibility in the care of adult gastroenterology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Gastroenterology, Inpatient/Outpatient
Clerkship Director: Sergio Salazar, M.D.

MDE 8270 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Marilyn Ilagan
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

The student will develop an understanding of the pathophysiology of gastrointestinal disease and learn
an approach to the evaluation and treatment of patients with gastrointestinal disease. The course
provides an in-depth exposure to the diagnosis and treatment of gastrointestinal disease in the hospital
and out-patient setting through bedside teaching, didactic lectures, conferences and Ground Rounds.

Objectives:
1. After completion of the course, the student should be able to take a detailed history and perform a
   physical examination tailored to the gastrointestinal system to develop a differential diagnosis.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

ELECTIVES
Internal Medicine

Ambulatory Elective in Hematology/Oncology

MDE 8281 8
Full-time (4 weeks) First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 8:30 a.m.
(HF) MIMA
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

MDE 8281 3
Full-time (4 weeks) First Day: Report to Heme/Onc Clinic 2F at Lake Nona VA @ 8:00 a.m.
(VA) Lake Nona VA
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Allison Carilli, Allison.carilli@va.gov, 407-631-2030
Contact person: Andrea Gelber;
vharlmeducaleducationcoordinators@va.gov
Maximum Enrollment: 1 each block

Goals are advanced training and responsibility in the care of adult hematology/oncology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Diagnostic Hematology
Clerkship Director: TBD

MDE 8285 2
Must be scheduled through VSAS
Full-time (4 weeks)
Grading Basis: Pass/Fail
(Oh)
Primary Faculty Supervisors: Dr. Lizardo Cerezo
Contact Person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 per block

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

The student will be working closely with the hematopathologist, clinical hematologists, senior residents
and supervisors of the hematology section; he/she will both observe and participate in the usual studies
performed in these areas including coagulation work-ups, complete blood counts, bone marrow
examinations and cytology of fluids. Some exposure to flow cytometry will be incorporated into the
program.

Objectives:
1. Upon completion of the course, the student will be able to perform selected procedures and interpret
   coagulation work-ups and bone marrow studies.
2. In addition, the student will learn the laboratory’s capabilities and how to utilize the laboratory services.
ELECTIVES
Internal Medicine

**Ambulatory Elective in Nephrology**

MDE 8351 8
Full-time (4 weeks)  
(HF) MIMA

*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195;
Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 8:30 a.m.

Goals are advanced training and responsibility in the care of nephrology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Nephrology, Inpatient/Outpatient
Clerkship Director: Sergio Salazar, M.D.

MDE 8350 2
Must be scheduled through VSAS
Full-time (4 weeks)
Grading Basis: Pass/Fail
(OH) Orlando Health
Primary Faculty Supervisors: TBD
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

MDE 8350
Part-time (2 weeks)
Grading Basis: Pass/Fail
(FLG) Flagler Hospital
*This site is more than 50 miles from the COM
Primary Faculty Supervisors: Dr. Amir Malik
Contact person: Wendy Jennings, (904) 829-8300;
wendy.rj@live.com; Brittany Roberts, (904)819-4578;
Brittany.roberts@flaglerhospital.org
Maximum Enrollment: 1 each block (None in August,
November, and March)

First Day: Report to Flagler Hospital, St. Augustine, Fl,
6th floor Medical Library @ 12:00 pm

This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the
hospital and outpatient setting through bedside teaching, didactic lectures, conferences and Grand
Rounds. After completion of the course, the student will be familiar with the various diagnostic and
therapeutic modalities that are used in the treatment of patients with renal disease.

Objectives:
1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic
modalities that are in the treatment of patients with renal disease.
ELECTIVES
Internal Medicine

Ambulatory Elective in Dermatology

MDE 8252 8
Full-time (4 weeks)  
(HF) MIMA  
*This site is more than 50 miles from the COM  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: TBD  
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.Miller@mima.com  
Maximum Enrollment: 1 each block

Goals are advanced training and responsibility in the care of dermatology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Dermatology Clinic Elective

MDE 8251.9
Variable (2-4 weeks)  First Day: Report to 411 Maitland Ave., Suite 1001, Altamonte Springs, FL @ 8:00 am.
Grading Basis: Pass/Fail
(PO) Altamonte Dermatology
Primary Faculty Supervisor: Dr. Jerri Johnson
jjohnson7191@aol.com
Contact person: Amy Keeney
(407) 260-2606; amy@jerrijohnsonmd.com
Maximum Enrollment: By permission only

This elective will provide exposure to a general dermatology practice. The student will be seeing patients with the dermatologist and participating in surgical procedures in the office.

Objectives:
1. Become familiar with common dermatologic conditions.
2. Be able to treat common dermatologic conditions.
3. Demonstrate proficiency with basic surgical procedures.
ELECTIVES
Internal Medicine

**Not Currently Available: Associates in Dermatology - Dermatology Elective**
Clerkship Director: Michael Steppie, M.D.

**MDE 8250 9**
Variable (2-4 weeks)  
First Day: You will receive an email the Friday afternoon before the start of your rotation from Jaime Handley with first day reporting instructions.

(PO) Associates in Dermatology  
Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Michael Steppie
msteppie@gmail.com

Contact person: Jaime Handley
(407) 846-7546 ext. 3221; Jaime@dermorlando.com

Maximum Enrollment: 1 each block

Associates in Dermatology Clerkship director and his staff will introduce students to dermatology and dermatologic surgery. They will be seeing patients with a vast array of diseases of the skin, hair, and nails, as well as surgical excisions of melanoma, skin tumors, cancers, benign moles, and skin lesions. The students will also be familiarized with Photodynamic Therapic (PDT) for psoriasis and eczema, Electrocautery Treatments and Blue-Light to treat pre-cancerous lesions, acne, and acne scarring. They will also be given an overview of a number of cosmetic dermatology services such as Botox, Laser Facial Rejuvenation, and Intense Pulsed Light.

**Objectives:**

The students will need to be able to perform patient assessment, while taking a dermatologic patient history, physical exam of the skin, differential diagnosis evaluation, and treatment considerations.
ELECTIVES

Internal Medicine

Wound Care
Clerkship Director: Robert Phillips, DPM

MDE 8345 3
Full-time (2 or 4 weeks) (VA) VA Lake Nona
Grading Basis: Pass/Fail
First Day: Report to Module 3F at the VA Lake Nona Clinic, 3rd floor @ 7:00 a.m. Please review the First Day Reporting Instructions document found on the M4 GPS site. Students should email Medical Education Coordinators to get computer access codes.

Primary Faculty Supervisors: Dr. Robert Phillips, DPM;
Contact person: (407) 631-4727
VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 1 each block

The student will be exposed to patients with all types of wounds. Most of the wounds will be located on the lower extremity. Diabetic ulcers will be heavily emphasized, though all types of wounds will be encountered, including decubitus ulcers, venous stasis ulcers, arteriosclerosis ulcers, surgical wounds and complications. In addition, the student will be exposed to the patient at high risk for developing ulcers as well as those who have finished healing a wound and are now being monitored for reoccurrence.

Objectives:
1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), and cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. The student, with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest experience possible. No night call or weekends required.

Objectives:

1. The student will gain his/her dermatology basic clinical knowledge and ability to communicate, discuss cases and interact with staff, patient in an intelligent and thoughtful way, and responds to clinical questions appropriately as knowledge of the field increase.
2. The student learns about skin and sun safety as well as the importance of evaluating the whole patient and discussing risk-taking behaviors.
3. The student learns to assist in basic dermatologic surgery procedures as well as gains understanding of more complex surgical procedures (Moh’s surgery and cosmetic closures), and laser surgery.
4. The student is exposed to the broad spectrum of dermatology specific medications and completes the rotation with a basic dermatology treatment armamentarium.
5. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma and/or skin disease.
ELECTIVES
Internal Medicine

Advanced Dermatology Elective
Clerkship Director: James Solomon, M.D.

MDE 8254 9
Full-time (4 weeks)  First Day: Report to 725 West Granada Blvd., Suite 44, Ormond Beach, FL 32174 @ 9:00 a.m.
(PO) Advanced Dermatology & Cosmetic Surgery, 725 West Granada Blvd., Suite 44, Ormond Beach, FL 32174
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. James Solomon, (386) 523-0768
Contact person: Sandra Davis, Office Manager (386) 523-0768; sdavis@ameridermresearch.com
Maximum Enrollment: 1 each block
**Student must complete MDE 8250 before taking this course and submit CV

MDE 8254 9
First Day: Report to 100 W. Gore St., Orlando 32806 @ 8:00 a.m.
Full-time (4 weeks)  (PO) Florida Dermatology Associates
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Michael Gutierrez
Contact person: Jennifer Londono, (407) 299-7333 ext. 1218; Jennifer.mfda@gmail.com
Maximum Enrollment: 2 each block

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. In addition, the student will be able to participate in or observe ongoing clinical research studies (phase II-IV). Furthermore, the student may choose to be instructed in centralized, multiple office management. Emphasis is placed on treating the patient’s current problem while repairing the underlying skin abnormalities to reduce risks of further problems. The student is expected to function as a member of the office team. The student, with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest experience possible.

Objectives:
1. The student increases his/her basic clinical knowledge and ability to communicate, discuss cases and interact with staff, patients, and research subjects in an intelligent and thoughtful way and responds to clinical questions appropriately as knowledge of the field increases.
Advanced Dermatology Elective continued

2. The student learns about skin and sun safety as well as the importance of evaluating the whole patient and discussing risk-taking behaviors.
3. The student learns to assist in basic dermatologic surgery procedures as well as gains understanding of more complex surgical procedures (Moh's surgery and cosmetic closures) and laser surgery.
4. The student is exposed to the broad spectrum of dermatology specific medications and completes the rotations with a basic dermatology treatment armamentarium.
5. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma, and/or skin disease.
6. The student is exposed to the complexities of the business aspects of a medical practice.
7. The student is exposed to new drug development as well as studies which expand the use of current medications and/or retest the safety profiles.
ELECTIVES
Internal Medicine

**Ambulatory Elective in Acute Care Medicine**

MDE 8344 8
Full-time (4 weeks)  
(HF) MIMA
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195;
Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 8:30 a.m.

This four week experience will provide advanced clinical training in the outpatient care of adult acute care patients in the outpatient setting.

**Objectives:**

1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

ELECTIVES
Internal Medicine

Ambulatory Elective in Rheumatology

MDE 8310 8

Full-time (4 weeks)
(HF) MIMA
*This site is more than 50 miles from the COM
Grading Basis: ACFB
First Day: Report to 1223 Gateway Drive, Melbourne, FL 32901, 2nd floor Administration @ 8:30 a.m.
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

MDE 8310 3

Full-time (4 weeks)
(VA) VA Lake Nona
Grading Basis: ACFB
First Day: Report to the Lake Nona VA, Clinic 1B – Valor Clinic @ 9:00 a.m. Please review the First Day Reporting Instructions document found on the M4 GPS site. Students should email Medical Education Coordinators to get computer access codes.
Primary Faculty Supervisor: Dr. Sujatha Vuyyuru, Dr. Seema Frosh, and Dr. Ashwini Komarla
Contact person: VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 1 each block

Goals are advanced training and responsibility in the care of adult rheumatology patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Ambulatory Elective in Pulmonary Medicine

MDE 8246 8
Full-time (4 weeks)  
(HF) MIMA  
*This site is more than 50 miles from the COM  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: TBD  
Contact person: Sandy Miller, (321) 725-4500 x7195; Sandy.Miller@mima.com  
Maximum Enrollment: 1 each block

First Day: Report to 1223 Gateway Drive, Melbourne, Fl 32901, 2nd floor Administration @ 8:30 a.m.

This four week experience will provide advanced clinical training in the outpatient care of adult pulmonary medicine patients in the outpatient setting. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
Ambulatory Elective in Infectious Disease and Travel Medicine

MDE 8321 8
Full-time (4 weeks)          First Day: Report to 1223 Gateway Drive, Melbourne, Fl
(HF) MIMA                  32901, 2nd floor Administration @ 8:30 a.m.
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandy Miller, (321) 725-4500 x7195;
Sandy.Miller@mima.com
Maximum Enrollment: 1 each block

This four week experience will provide advanced clinical training in the outpatient care of adult ID/travel medicine patients. The student will assume intern level responsibility for his/her patients and will be expected to see/provide care for approximately eight or more patients daily.

Objectives:
1. Demonstrate ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

ELECTIVES
Internal Medicine

Pulmonary Elective
Clerkship Director: Sergio Salazar, M.D.

MDE 8245 9
Full-time (4 weeks)
(PO) Central Florida Pulmonary Group
326 N. Mills Avenue, Orlando, FL 32803
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Daniel Layish
Contact person: Ardith Dell
(407) 581-1446; adell@cfpulmonary.com
Maximum Enrollment: 1-2 each block

First Day: Contact Ms. Dell two weeks before rotation to confirm first day reporting information. Dress code is either scrubs or professional attire.

MDE 8245 2
Must be scheduled through VSAS
Full-time (4 weeks)
Grading Basis: Pass/Fail
(PO)
Primary Faculty Supervisors: TBD
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

No weekend or night calls. Evaluate patients with pulmonary disease and participate in procedures.

Objectives:
1. Be able to appropriately evaluate a patient with dyspnea.
2. Be able to evaluate appropriate clinical data (PFT, CXR or others) in the context of patient care.
3. Understand physiology, diagnosis and management of patients with sleep disturbance.
4. Demonstrate ability to obtain medical history, evaluate and propose preliminary treatment for selected patients with pulmonary disorders.
ELECTIVES
Internal Medicine

Advanced ECG Self-Study Program

MDE 8227  First Day:  UCF COM room 406P at 8:00 am.
Part-time (2 weeks)
(UCF COM) UCF COM and UCF Health Clinic
Grading Basis:  Pass/Fail
Primary Faculty Supervisor:  Dr. Bernard Gros
Contact Person:  Dr. Bernard Gros, 407-266-1180;
bernard.gros@ucf.edu
Maximum Enrollment:  2 per block (November through April only)
Note:  This course requires some in person sessions with the instructor.
Please communicate your availability to the instructor at least 2 weeks
before the start of the rotation.

The primary goal of this rotation will be mastering the art and practice of clinical ECG interpretation.
This will focus on the following areas:  1) The basics, 2) Myocardial abnormalities, 3) Conduction
abnormalities, 4) Arrhythmias, 5) Narrow & wide complex tachycardias, 6) Paced rhythms,
channelopathies and electrolyte disturbances.

Upon completion of this 2 week session, the students will have reviewed 400-600 case studies.  This will
provide them with a broad and in-depth understanding of ECG analysis and diagnosis.

Learning Activities:
1. Self study case reviews by student (Using Podrid’s ECG Series)
2. Additional literature review ECG topics.
3. Weekly presentations to faculty on assigned ECG/Cardiovascular topics.
4. Weekly conference/faculty discussions to assist in instruction and understanding of ECG interpretation.

Required Texts:
1) Podrid's Real World ECG - Volume 1-4 (Volume 5-6 once released) - student will need to purchase to obtain
additional access to online case files
2) Marriott's Practical Electrocardiography 12th edition
ELECTIVES
Internal Medicine

Infectious Disease, Inpatient/Outpatient
Clerkship Director: Sergio Salazar, M.D.

MDE 8320 2
Full-time (4 weeks) (OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Kauser Akhter
Contact person: Sandra Ingram, GME Coordinator, (321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

This course provides an in-depth exposure to the diagnosis and treatment of infectious diseases in the hospital and outpatient setting. The student will become familiar with the various diagnostic and therapeutic modalities which are used in the treatment of patients with infectious diseases.

Objectives:
1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities which are used in the treatment of patients with infectious diseases.
UNIVERSITY OF CENTRAL FLORIDA  
COLLEGE OF MEDICINE  
FOURTH YEAR (M4)

ELECTIVES  
Internal Medicine

Dermatology Research Elective  
Clerkship Director: James Solomon, M.D.

MDR 8250 9  
Full-time (4 weeks)  
First Day: Report to 725 West Granada Blvd., Suite 44, Ormond Beach, Fl 32174 @ 9:00 a.m.

(PO) Advanced Dermatology & Cosmetic Surgery  
Grading Basis: Pass/Fail

*This site is more than 50 miles from the COM

Primary Faculty Supervisors: Dr. James Solomon  
Drjsolomon@ameridermresearch.com

Contact person: Sandra Davis, Office Manager  
(386) 523-0768; sdavis@ameridermresearch.com

Maximum Enrollment: 1 each block

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. The student with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest possible. No night call or weekends required.

Objectives:
1. The student increases his/her basic clinical knowledge and ability to conduct clinical research within dermatology, to communicate, discuss protocols, and data. The student will interact with staff, investigators and industry representatives throughout the world, in an intelligent and thoughtful way, and responds to clinical questions appropriately as knowledge of the field increases.
2. The student learns about the import of Good Clinical Practices and maintaining patient safety throughout any clinical field.
3. The student learns to create protocols, enter data and develop reports.
4. The student is exposed to new drug development as well as studies which expand the use of current medications and/or retest the safety profiles.
5. The student is exposed to the complexities of the business aspects of a clinical research and medical practice.
6. The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma, and/or skin disease.
Integrative Medicine Elective

MDE 8900
Full-time (4 weeks)  
First Day: Report at 8:30am on first day of elective
(UCF COM) UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Christopher Smith
Christopher.smith3@ucf.edu
Contact person: Christopher Smith, 407-883-1102; Christopher.Smith3@ucf.edu
Maximum Enrollment: 35 students (5 minimum)
Block 10 only

Introductory sessions and workshops will be presented by community practitioners and preceptors focusing on different modalities of integrative medicine: botanicals, homeopathy, mind/body, nutrition, traditional Chinese medicine, osteopathy, and energy medicine. The rotation also includes presentations by UCF COM faculty and guest speakers/practitioners on a variety of topics like an introduction to integrative medicine (1M), 1M research, the difference between 1M and complementary and alternative medicine, and 1M approaches to various health conditions. Additionally, an important aspect of the rotation is a focus on personal growth and reflection as well as community building within each cohort. The students are expected to evaluate the claims of various practices critically and be rigorous in their questioning of all forms of human healing including practices currently considered mainstream. The students are expected to become aware of various practices that patients may be using so that they can be better-informed physicians and be more comfortable in discussing these areas with patients whom may be interested in using them or are already doing so. The students should also learn to communicate effectively with practitioners of complementary and alternative medicine therapies.

Learning Objectives:

- Patient care:
  The student will learn about appropriate application of integrative and functional medicine paradigms and how they can be considered as part of comprehensive patient care.

- Medical Knowledge:
  Summarize the state of knowledge and data of complementary and alternative medicine therapies within an objective critical review of the literature. Familiarize students with the risk, benefits and clinical applications of these particular disciplines.

- Practice Based Improvement:
Integrative Medicine Elective continued

Students should be able to explore their roles as allopathic health-care providers able to make appropriate referrals and answer patients' questions regarding CAM therapies

- Interprofessional and Communication Skills:
  Encourage students to communicate with all types of health-care providers who might be offering complementary and alternative medicine therapies

- Professionalism:
  Recognition of the essential elements of the application of integrative therapies, including moral and ethical principles and legal responsibilities underlying the profession. Professional values which include excellence, altruism, responsibility, compassion, empathy, accountability, honesty and integrity, and a commitment to scientific methods.

- Systems Based Practice:
  The student will be familiar with application of preventative, wellness-based therapies and the utility in the processes in a health delivery system to provide cost effective individualized care in addition to population based approaches. This is in context of appointment and referral systems.

Learning Activities:
- Group lectures and demonstrations on campus or at UCF Gateway clinic.
- Clinical observation in various practitioners' offices.
- Independent study including reading, library research, further experimental investigation of an area of particular interest to the student, which will culminate in the presentation of a written paper to the entire group during the last week of the course.
- Individual experiences that provide personal balance for the students and expose them to a new personal mind-body practice, which they can incorporate into lifelong individual health habits such as meditation, yoga, etc.
ELECTIVES
OBSTETRICS &
GYNECOLOGY
/
ONCOLOGY
Electives
Obstetrics & Gynecology/Oncology

Hematology & Oncology, Inpatient/Outpatient
Clerkship Director: Sergio Salazar, M.D.

MDE 8280 2
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBA
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

This course provides an in-depth exposure to the diagnosis and treatment of hematologic disease and
malignancy in the hospital and outpatient setting.

Objectives:
1. After completion of the course, the student should be able to take a detailed history and perform a
physical examination tailored to the hematologic system, in order to develop a differential diagnosis.
Electives
Obstetrics & Gynecology/Oncology

**Integrative Reproductive Medicine E-text Development**

MDE 8095                      First Day: To be scheduled with Dr. Simms-Cendan
Full-time (4 weeks)  
(UCF COM)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Judith Simms-Cendan  
**Contact Person:** Dr. Judith Simms-Cendan,  
(407) 266-1057; Judith.simms-cendan@ucf.edu  
Maximum Enrollment: Unlimited per block

Students will develop an in-depth understanding of the selected subjects in reproductive medicine. They will learn medical education theory and use of available software. The end product will be a resource for the preclinical students and possible publication.

**Objectives:**
1. Improved knowledge in reproductive pathology, physiology and pharmacology  
2. Use of technology to create e-textbooks

**Learning Activities**
1. Students will research a topic then develop an e-module that includes a case vignette, background information, video, self-assessment and other interactive modalities.
Electives
Obstetrics & Gynecology/Oncology

**Gynecologic Oncology Elective**

MDE 8162
First Day: Report to 105 W. Miller St., Orlando, FL @ TBD
Full-time (4 weeks)
(OH) Winnie Palmer Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Chris Bryant
Contact Person: Dr. Bryant, Chris.Bryant@orlandohealth.com
;(321) 320-1767 and copy Sandra Ingram,
Sandra.ingram@orlandohealth.com;
(321) 841-3715
Maximum Enrollment: 1 per block

MDE 8162
First Day: Report to Health First Cancer Institute @ 8:00 am
Full-time (4 weeks)
(HF) Health First Cancer Institute/Holmes Regional Medical Center
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Michael Hoffman
Contact Person: Deborah Merritt, (321) 434-7641;
Deborah.merritt@health-first.org
Maximum Enrollment: 2 per block

The student will participate in a busy gynecologic oncology service, working with two experienced surgeons and educators. He/she will scrub into a large volume and variety of surgeries for gynecologic tumors/cancers (endometrial, ovarian, cervical, vulvar). By examining the patients under anesthesia, the student will gain skill in pelvic and abdominal examination and encounter significant abnormalities. The student will see very detailed pelvic and abdominal anatomy and be able to correlate this anatomy with disease processes and surgical management. The student will experience how patients with these significant disease processes present in the outpatient setting. The student will gain proficiency in presentation of patients on rounds and perioperative care. The student will gain experience in palliative care.

**Objectives:**
1. Gain proficiency in abdominal and pelvic examination of the adult female. Hone skills in the presentation of patients. Learning about the organization and purpose of a tumor board. Experience palliative care of cancer patients.
**Learning Activities**

1. The student will examine patients and scrub into surgery, working with both gynecologic oncologists, acting as a first assistant in a large percent of the cases. They will see patients with the attending in the outpatient setting and be given the opportunity to interact with patients. The student will be part of the team on daily rounds and be expected to closely follow and present some of the patients, including formulation of care plans. The student will be present and, to a limited extent, participate in weekly tumor board. The student will be given reading assignments that will correlate with the patient care they are experiencing. Literature searches and/or reviews will be requested in selected circumstances (important or unusual clinical scenarios). For the interested student, participation in a clinical research project may be offered.
Electives
Obstetrics & Gynecology/Oncology

Elective in Gynecology

MDE 8900                      First Day: Report to Florida Hospital Celebration, Women’s
(FH) Florida Hospital Celebration Health Institute 380 Celebration Place, 2nd floor @ 8:00 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Aileen Caceres
Contact Person: Ann Kennedy, ann.kennedy@ucf.edu; Sheri LaPorte, (407) 303-4573; sheri.laporte@flhosp.org
Maximum Enrollment: 1 per block

The Gynecology Elective at Florida Hospital Celebration Health Women’s Health Institute focuses on all aspects of gynecologic care of the patient. The student will evaluate and propose course of treatment for commonly encountered gynecologic health issues. The student will develop differential diagnosis and propose treatment plans that are appropriate. Expected conditions to be encountered include management of abnormal cervical cytology, abnormal uterine bleeding across all age groups, vulvar disorders, fibroids, adenomyosis, endometriosis, and complex gynecological surgical procedures. Students will work team Nurse Practitioners in completing well-women examinations and evaluating breast disease. The student will be expected to have learned basics of gynecologic outpatient procedures such as endometrial biopsy, intrauterine device placements for contraception, colposcopy basics, and performance of breast and pelvic examination, including collection of specimens for cytology. The student will also be expected scrub and assist with all surgical cases.

Learning Activities

Student will be an active team member of all patient encounters. The student will assist with admissions, round pre-op and post op on all surgical patients. The student will prepare 2 presentations to be delivered to the team regarding gynecologic care of patients. These presentations will incorporate literature reviews and case-based presentations with a discussion.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Electives
Obstetrics & Gynecology/Oncology

Obstetrics and Gynecology Ambulatory Elective

MDE 8900
Full-time (4 weeks)  
(HoF) Heart of Florida
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Lareesa Ferdinand Dukes
Contact Person: Marci Harris, (863) 421-7600, ext. 235; marchofofgyn@hotmail.com; Jennifer Furry, (863) 419-2174; Jennifer.furry@heartofflorida.com
Maximum Enrollment: 1 per block

MDE 8900
Full-time (4 weeks)  
(FLG) Flagler Hospital
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Susan Yarian
Contact Person: Lora, obgassoc@yahoo.com; (904) 377-5850
Maximum Enrollment: 1 per block

The Ob/Gyn Ambulatory Elective focuses on all aspects of obstetric and gynecologic care of the patient. The student will evaluate and propose course of treatment for commonly encountered obstetric and gynecology patients. The student will develop differential diagnosis and propose treatment plans that are appropriate. Expected conditions to be encountered include management of normal and abnormal labor, prenatal care, abnormal cervical cytology, abnormal uterine bleeding and participate in all obstetrical and gynecologic surgical procedures.

Learning Activities

Student will be an active team member of all patient encounters. The student will assist with admissions, round pre-op and post op on all surgical patients. The student will prepare 2 presentations to be delivered to the team regarding ob/gyn patients. These presentations will incorporate literature reviews and case-based presentations with a discussion.
ELECTIVES
OPHTHALMOLOGY /
PEDIATRICS
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Electives
Ophthalmology/Pediatrics

Clinical Ophthalmology Elective
Clerkship Director: Saad Shaikh, M.D.

MDE 8550 3
Variable Duration (2-4 weeks)
(VA)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Saad Shaikh
Contact person: Dr. Saad Shaikh
(407) 266-1100; sshaikhmd@cfl.rr.com; Kate Knowles, kate@ucf.edu;
VHAORLMedicalEducationCoordinators@va.gov

Maximum Enrollment: 1 each block (Not available in all blocks)

MDE 8550 9
Full-time (4 weeks)
(PO) Medical Eye Associates
Grading Basis: Pass/Fail
First Day: Report to 921 N. Main St., Kissimmee, 34744 @ 8:00 am. Contact Anita Miller at least 2 weeks before
the start of the rotation.
Primary Faculty Supervisor: Dr. Mont Cartwright
Contact Person: Anita Miller,
(407) 933-7800 x127; amiller@medeyedoc.com;
Peter Sefcik, marketing@medeyedoc.com
Maximum Enrollment: 1 per block

A 1-4 week rotation will be developed by the elective faculty and the student based on individual
student goals. Core competencies to be achieved during the elective include general eye examination
and ophthalmoscopic examination skills and exposure to ophthalmic surgery. For more advanced
students or those available for longer time commitments, students will assist in ophthalmic surgical
procedures, workup and presentation of ophthalmic cases to faculty and have the opportunity to
present and or write a case report for publication. There are no weekend clinics outside of call. Call will
be limited to accompanying staff to after-hours emergency evaluations (rare).

Objectives:
1. Achieve proficiency in the evaluation of patients with ocular disorders.
2. Establish familiarity within common eye conditions and their treatment.
3. Recognize ocular manifestations of systemic disease.
4. Become familiar with the clinical procedure ophthalmology.
Electives
Ophthalmology/Pediatrics

Ophthalmology Research Elective
Clerkship Director: Michael Tolentino, M.D.

MDR 8550 9
Full-time (2-4 weeks)  First Day: Report to Center for Retina & Macular Disease, 250 Ave. K, SW, Suite 200 Winter Haven, FL @ 9:00 a.m.
(PO) Center for Retina & Macular Disease
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Michael Tolentino
Contact person: Dawn Sutherland, (863) 297-5400 x2032; dasu@crmd.net
Maximum Enrollment: 1 each block

Students will have the opportunity to observe the implementation of clinical trials at an ophthalmology subspecialty (retina) clinic. They will gain exposure to the various phases of clinical trials and how basic science research is applied in clinical practice. Students will observe clinical trial data collection and treatment administration. Students will participate in the examination of retinal patients and be introduced to advances in diagnostic and therapeutic technology. Students will also have the opportunity to design a retrospective clinical research project that could lead to publication. There will be no weekend or on-call activities. This elective will benefit those seeking future careers in ophthalmology or in other clinical subspecialties where an understanding of clinical research is important.

Objectives:
1. Achieve familiarity with clinical trials and how clinical trials are designed.
2. Understand the role the FDA plays in approving therapeutics and devices.
3. Develop additional experience with the funduscopic examination.
4. Recognize retinal manifestations of systemic disease.
5. Become familiar with the workings of a modern ophthalmology subspecialty (retina) practice.
Electives
Ophthalmology/Pediatrics

**Not Currently Available**: Pediatric Hospitalist
Clerkship Director: Ben Guedes, M.D.

MDE 8400 1
Full-time (4 weeks) First Day: Report to FH for Children, Pediatric Floor @
(FH) 8:00 a.m.
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Ben Guedes
Contact person: Karen Koster, (407) 303-2888;
karen.koster@flhosp.org
Maximum Enrollment: 1 each block

Provides an in-depth exposure and experience in hospital level care of admitted patients ages birth through 18 years, consults and admission. Responsible for admission, hospital treatment and as a primary care giver.

Objectives:
1. Daily rounds, daily teaching conference, presentation of case in depth, weekly.
Electives
Ophthalmology/Pediatrics

Ambulatory Pediatrics Elective
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8404 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) Arnold Palmer Hospital for Children
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Colleen Moran-Bano
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

The elective is designed to acquaint the student with the management of acute pediatric illness in an outpatient setting. Well-Child Care, Child Development aspects, and the dynamics of private practice are presented. The elective also includes exposure to the normal newborn nursery, care of the term infant, and follow-up care of the newborn after hospital discharge. Proper examination and evaluation of the newborn infant is stressed.

Objectives:
1. Demonstrate proficiency in the evaluation and management of acute and chronic pediatric illnesses in the outpatient setting.
2. Order diagnostic tests appropriately.
3. Interpret diagnostic tests appropriately.
4. Perform a proficient newborn and well child physical examination.
5. Demonstrate proficiency in providing patient education, including phone contacts with patients.
6. Make appropriate referral patterns to subspecialists.
7. Demonstrate proficiency in providing advice to mothers regarding breast feeding and formula feeding.
Electives
Ophthalmology/Pediatrics

**Pediatric Nephrology Elective**
Clerkship Director: Jorge Ramirez, M.D.

MDE 8445 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) Arnold Palmer Hospital for Children
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Jorge Ramirez
Contact person: Dr. Jorge Ramirez
(321) 841-7970; Jorge.ramirez@orhs.org
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

MDE 8445 7
Full-time (2-4 weeks)
(NCH) Nemours Children's Hospital & Nemours Associated Clinics
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Robert Mathias
Contact person: Tiffany Baulkman, (407) 567-3876; tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This two or four-week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric Nephrology. Learning will occur through direct provision of care to children requiring Nephrology consultation. Learning will also occur through formal and informal didactic presentations, bedside teaching, and through directed and undirected reading. The medical student will serve as an integral part of the care team, providing direct patient care as appropriate under the supervision of the Nephrology attending.

The overall goal of the Nephrology elective is to acquire an in-depth knowledge and experience with commonly encountered renal problems of infants and children. This elective also includes adequate time to pursue readings that focus on pathophysiology of disease processes. With this information as a background, the Medical student will acquire a good understanding of the management and long-term outcomes of common renal disorders in children.

During the rotation, the medical student will, under the guidance of a supervising Nephrology physician, evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or suspected Nephrologic diseases, including, but not limited to, those with hematuria, proteinuria,
Pediatric Nephrology Elective continued

hypertension, urinary tract infections, kidney stones, nephrotic syndrome, acute kidney injury, chronic kidney disorder, and kidney transplantation.
Electives
Ophthalmology/Pediatrics

**Pediatric Endocrinology Elective**
Clerkship Director: Colleen Moran-Bano, M.D.

**MDE 8430 1**
Full-time (4 weeks)  
(FH)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisors: Dr. Jorge Daaboul & Dr. Konda Reddy  
*Contact person: Karen Koster, (407) 303-2888; Karen.Koster@flhosp.org*  
Maximum Enrollment: 1 each block  
First Day: Report to 615 E. Princeton St., Suite 1, Orlando, FL @ 9:00 a.m.

**MDE 8430 7**
Full-time (2-4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: Pass/Fail  
First Day: Report to Nemours Children’s Hospital lobby at 8:30 am  
Primary Faculty Supervisor: Dr. Michelle Rivera-Vega  
(407) 567-3855, michelle.rivera-vega@nemours.org  
*Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org*  
Maximum Enrollment: 1 each block

Learn the basics of Pediatric Endocrinology. Provide in depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child. Also growth disorders, disorders of puberty, and obesity and its complications.

**Objectives:**
1. Diagnosis and treatment of Type 1 & 2 diabetes.  
4. Recognition of obesity and complications.
Electives
Ophthalmology/Pediatrics

Pediatric Hematology/Oncology
Clerkship Directors: Fouad Hajjar, M.D., Jose Borrero, M.D.

MDE 8440 1
Full-time (4 weeks)
(FH)
First Day: Report to 2501 N. Orange Ave., Suite 589, Orlando, FL @ 8:00 a.m.
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Fouad Hajjar
Contact person: Jena Heflin,
(407) 303-2080; Jenilee.marmo@flhosp.org
Maximum Enrollment: 1 each block

MDE 8440 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

Pediatric hematology and oncology including bone marrow transplant. On this rotation the student will be exposed to a wide spectrum of pediatric hematology and oncology diseases. Patient care and consultation experience will be provided primarily in the pediatric hematology/oncology clinic, as well as through inpatient consults, and inpatient experience can be obtained if desired. The student will observe lumbar puncture and bone marrow examination procedures. Students will spend approximately one day with the hematopathologist examining normal and abnormal peripheral blood smears and bone marrow slides.

Objectives:
1. Learn low to diagnose and treat hematologic problems in children.
2. Understand mechanisms of immune manipulation in pediatric BMT.
3. See and understand common childhood malignancies.
Electives
Ophthalmology/Pediatrics

Genetics and Dysmorphology
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8438 7
Part-time (2 weeks)                              First Day: Report to Nemours Children’s Hospital lobby
(week)                                          @ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Patricia Wheeler
Patricia.wheeler@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

Students will become familiar with the systematic approach to evaluating a patient with a known or suspected genetic, cytogenetic, metabolic or dysmorphic order.

Objectives:
1. Students will be able to perform a physical examination with emphasis on identifying and describing congenital anomalies and dysmorphic features.
2. Students will be able to elicit and construct three generation pedigree (family tree).
3. Students will become familiar with how genetic counselors and geneticists approach counseling for conditions with Mendelian inheritance patterns (autosomal dominant, autosomal recessive, and X-linked) and non-Mendelian inheritance patterns (mitochondrial, inheritance, multifactorial conditions and chromosomal abnormalities).
4. Students will become familiar with on-line resources that are available for physicians caring for patients with genetic disorders.
5. Students will become familiar with community resources and support groups for individuals and their families who have a genetic disorder.
6. Students will learn the common indications for referring a patient to genetic services.
Electives
Ophthalmology/Pediatrics

Developmental/Behavioral Pediatric Medicine Elective
Clerkship Director: Stephanie Spinelli, OT OTR

MDE 8415 1
Full-time (4 weeks)
(FH) Florida Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Emily Forrest, Emily.forrest.md@flhosp.org
Contact person: Karen Koster, (407) 303-2888; karen.koster@flhosp.org
Maximum Enrollment: By permission only
First Day: Report Kid’s Doc Building, Suite 300 @ 8:00 am

MDE 8415 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) Arnold Palmer Hospital for Children
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Stephanie Spinelli
Contact person: Stephanie Spinelli (407) 896-1152; stephspin@cfl.rr.com
Maximum Enrollment: 1 each block
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

The program emphasizes the use of multiple disciplines and community resources that specialize in developmental issues. The student will participate in a structured experience in normal and abnormal behavior and development. Participants are scheduled for two half-day assignments each day. Assignment sites include but are not limited to special education programs, early intervention agencies, neurology clinics, and developmental evaluation clinics. Speech and language evaluations, as well as occupational and physical therapy sessions will also be attended. Participants will be given the opportunity to learn about normal and abnormal development issues of children, premature through adolescence. Opportunities for hands-one experience with special needs children and their families are provided.

Objectives:
1. Recognize age appropriate behavior and development.
2. Conduct basic age appropriate developmental testing.
3. Describe community based services available to evaluate and treat children with developmental delays.
4. Demonstrate proficiency in counseling parents about common behavior problems, to include: enuresis, sleep disturbances, temper tantrums, and needs for discipline/limit setting.
5. Demonstrate proficiency in the evaluation of a child with suspected attention deficit hyperactivity disorder (ADHD).
6. Demonstrate proficiency in the management of a child with suspected attention deficit hyperactivity disorder (ADHD).
Electives
Ophthalmology/Pediatrics

Pediatric Dermatology
Clerkship Director: Tace Rico, M.D.

MDE 8500 1

Full-time (2-4 weeks) (FH)

Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Tace Rico

Contact person: Sebi Colon, Office Manager
(407) 303-1509; eusebia.colon@flhosp.org

Maximum Enrollment: 1 each block (None in June, July, August, or September)

First Day: Report to 615 E. Princeton St., Suite 416, Orlando, FL @ 8:30 a.m.

Exposure to many common pediatric skin diseases, some more rare congenital dermatoses. Importance of the derm exam and the correct use of morphologic terminology and examination technique. Understanding of most common dermatoses. Most time in a pediatric outpatient clinic observing procedures including biopsies, lasers and minor surgeries. Opportunity to evaluate inpatients on the consult service with acute dermatologic issues. Journal discussions and kodachromes will occur daily.

Objectives:

1. Become proficient in describing skin lesions
2. Basic understanding of acne and treatment regimens.
3. Recognition of atopic dermatitis, generate treatment plan.
5. Differentiation between infantile hemangiomas and vascular malformations.
6. Familiarity with nevi and congenital lesions.
7. Familiarity with some more common genodermatoses with appropriate workup.
Electives
Ophthalmology/Pediatrics

**Pediatric Pulmonary Elective**
Clerkship Director: Carlos Sabogal, M.D.

MDE 8425 2
Must be scheduled through VSAS  
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation
Full-time (4 weeks)  
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Carlos Sabogal
Contact person: Dr. Carlos Sabogal  
(321) 841-6350; carlos.sabogal@orlandohealth.com
Maximum Enrollment: 1 each block

MDE 8425 7
Full-time (2-4 weeks)  
(NCH) Nemours Childrens Hospital  
First Day: Report to Nemours Children’s Hospital Lobby @ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Floyd Livingston and Dr. Shatha Yousef  
(407) 567-3868, flivings@nemours.org and shatha.yousef@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

This clinical course will be based on basic respiratory physiology and will include a variety of clinical pulmonology experiences such as infectious disease of the lungs, hypersensitivity lung disease, cystic fibrosis, asthma, pulmonary reactions to chemical injury and trauma, radiologic evaluation of lung disease, pulmonary pathology, flexible bronchoscopy, pulmonary function testing, exercise physiology, sleep disordered breathing, apnea of prematurity/infancy, congenital disorders of the respiratory tract, home ventilation and chronic lung disease of infancy. Patient care and consultation experience will be gained on the inpatient services, intensive care units, and in the pediatric pulmonology clinic. In addition, the student will spend time in the pediatric pulmonary function and sleep laboratories.

**Objectives:**
1. Describe normal patterns of breathing in infants and children.
2. Demonstrate proficiency in the examination of the respiratory system.
3. Diagnose and treat asthma according to national guidelines.
4. Demonstrate proficiency in the management of children with cystic fibrosis.
5. Describe strategies for managing the complexities of the treatment of BPD.
6. Interpret basic pulmonary function testing in children.
Electives
Ophthalmology/Pediatrics

Pediatric Critical Care and ICU
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8465 1
Full-time (4 weeks) First Day: Report to 5th floor PICU @ 6:30 am
(FH) Florida Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Stacy McConkey,
stacy.mcconkey.md@flohosp.org
Contact person: Karen Koster, (407) 303-2888;
Karen.koster@flhosp.org
Maximum Enrollment: 1 each block

In-depth exposure and experience in Pediatric Clinical Care. Pediatric Critical care on a daily basis.

Objectives:
1. Learn critical assessment skills and intro to decision making process in critical care setting.
Electives
Ophthalmology/Pediatrics

Pediatric Cardiology
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8420 1
Full-time (4 weeks)  
(FH) Florida Hospital  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Matthew Zussman  
Matthew.Zussman.md@flhosp.org  
Contact person: Karen Koster, (407) 303-2888; karen.koster@flhosp.org  
Maximum Enrollment: 1 each block (June – December only)  
First Day: Report to Med Plaza, Suite 310 @ 7:00 am

MDE 8420 2
Must be scheduled through VSAS  
Full-time (4 weeks)  
(OH) Arnold Palmer Hospital for Children  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: TBD  
Contact person: Sandra Ingram, GME Coordinator, (321) 841-3715; Sandra.Ingram@Orlandohealth.com  
Maximum Enrollment: 1 each block  
First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

MDE 8420 7
Full-time (2-4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Eva Nunlist  
Contact person: Tiffany Baulkman, (407) 567-3876; tiffany.Baulkman@nemours.org  
Maximum Enrollment: 1 each block  
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

The overall goal of this rotation is to provide a comprehensive program toward the recognition and management of major/common pediatric cardiology problems. Emphasis will be on the pathogenesis, pathophysiology, diagnosis and management principles of congenital and acquired heart disease in the young. Additional time will be spent on the understanding, recognition and management of pediatric cardiac rhythm disturbances and general pediatric cardiology issues.

Objectives:
1. Elicit a thorough and accurate history and performing comprehensive cardiovascular examination of neonates, infants, children and adolescents.
2. Detect significant heart disease through history and physical exam.
Electives
Ophthalmology/Pediatrics

**Pediatric Gastroenterology Elective**
Clerkship Director: Jeffrey Bornstein, M.D.

**MDE 8433 2**
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Jeffrey Bornstein
Contact person: Dr. Jeffrey Bornstein
(321) 841-3338; jeffrey.bornstein@orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

**MDE 8433 7**
Full-time (2 or 4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Jolanda Denham,
Julia.denham@nemours.org
Contact Person: Tiffany Baulkman, 407-567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

On this rotation the student will be exposed to a wide spectrum of pediatric gastrointestinal and liver diseases. Patient care and consultation experience will be provided in the pediatric gastroenterology clinic, inpatient service and intensive care units. The student will participate in a full range of endoscopic, monomeric and biopsy procedures.

**Objectives:**
1. Describe normal feeding patterns from infancy through adolescence.
2. Explain how differential diagnosis and work-up is used for the evaluation of chronic recurrent abdominal pain in the pediatric patient.
3. Evaluate a child with abnormal liver function tests.
4. Evaluate a child with gastroesophageal reflux.
5. Manage a child with gastroesophageal reflux.
6. Describe a diagnostic approach for the child with vomiting or hematochezia.
Electives
Ophthalmology/Pediatrics

**Pediatric/Adolescent Gynecology**
Clerkship Director: Judith Simms-Cendan, M.D.

**MDE 8900 2**
Full-time (4 weeks)
(OH) Arnold Palmer Hospital for Children
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Judith Simms-Cendan
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block (None in block 4, 6, 7, 9 or 11)

First Day: Report to 89 West Copeland Drive, Orlando, FL @ 8:00 a.m.

The pediatric and adolescent gynecology elective treats pediatric gynecologic disorders such as vaginitis, pelvic pain, and congenital anomalies. Students will gain experience in managing endocrine disorders such as polycystic ovary syndrome and provide contraception for adolescent girls with complicated medical problems such as lupus and autoimmune disorders, Crohn’s disease, bleeding disorders and diabetes. Students will also be expected to understand and formulate treatment plans around menstrual cycle control options to children with special needs such as cerebral palsy and Down’s syndrome. Students will participate in surgical treatment of endometriosis and ovarian cysts among pediatric and adolescent patients.

**Objectives:**

1. **Patient Care:** The student is expected to observe and become an active team member of patient care. The student will have the opportunity to become an active member of the patient care process across multiple clinical teams when evaluating patients for breast disease as the multidisciplinary teams organize to deliver optimum quality care.

2. **Medical Knowledge:** Students are expected to demonstrate knowledge of established and evolving clinical, epidemiological, and social-behavioral sciences and the application of this knowledge to patient care. Each clinical experience will be fully discussed with the student to help synthesize differential diagnosis and understand the interplay of medical therapeutics.

3. **Practice Based Improvement:** Students must demonstrate the ability to evaluate their patient care practices, appraise and assimilate scientific evidence and improve their patient care practices.

4. **Inter-professional and Communication Skills:** Students are expected to demonstrate interpersonal and communication skills that result in effective information exchange. They will be invited to explore ways to engage their patients and families and utilize resources in the hospital setting to communicate with non-English speaking patients.

5. **Professionalism:** Students are expected to learn about the standards of behavior such as: be in the moment, be authentic and humanistic, volunteer discretionary effort constantly, model high performance, respect and leverage separate realities, be curious vs. judgment, and strive to practice them in all interactions.

6. **Systems Based Practice:** Students are expected to demonstrate an awareness and responsiveness to the larger context and system of healthcare and ability to apply this knowledge to improve and optimize
Pediatric/Adolescent Gynecology continued
Clerkship Director: Judith Simms-Cendan, M.D.

healthcare and collaborate with other members of the healthcare team to assist patients in dealing effectively with complex systems and improve systematic processes of care.

Learning Activities:

1. Student will be an active team member of all patient encounters. The student will prepare 2 presentations to be delivered to the team regarding pediatric and adolescent patients. These presentations will incorporate literature reviews and case-based presentations with a discussion.

2. Preceptor will provide copies of journal articles or textbooks to support student learning. A link to the readings and Short Curriculum can be found at: https://www.dropbox.com/sh/jy22hawk7vimmx9/AACylPCcklRBChb0dcCScgia?dl=0

3. Assessments will be based on performance in the outpatient clinical setting, performance in the operating room and clinical evaluation by instructor. Formative feedback will be provided to the student by the mid-rotation time period indicating areas for improvement.
Electives
Ophthalmology/Pediatrics

**Pediatric Dermatology**
Clerkship Director: Tace Rico, M.D.

**MDE 8500 1**
Full-time (2-4 weeks)

Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Tace Rico
Contact person: Sebi Colon, Office Manager
(407) 303-1509; eusebia.colon@flhosp.org

Maximum Enrollment: 1 each block (None in June, July, August, or September)

First Day: Report to 615 E. Princeton St., Suite 416, Orlando, FL @ 8:30 a.m.

Exposure to many common pediatric skin diseases, some more rare congenital dermatoses. Importance of the derm exam and the correct use of morphologic terminology and examination technique. Understanding of most common dermatoses. Most time in a pediatric outpatient clinic observing procedures including biopsies, lasers and minor surgeries. Opportunity to evaluate inpatients on the consult service with acute dermatologic issues. Journal discussions and kodachromes will occur daily.

**Objectives:**
1. Become proficient in describing skin lesions
2. Basic understanding of acne and treatment regimens.
3. Recognition of atopic dermatitis, generate treatment plan.
5. Differentiation between infantile hemangiomas and vascular malformations.
6. Familiarity with nevi and congenital lesions.
7. Familiarity with some more common genodermatoses with appropriate workup.
Electives
Ophthalmology/Pediatrics

**Pediatric Infectious Diseases**
**Clerkship Director: Colleen Moran-Bano, M.D.**

MDE 8454 7
Full-time (2-4 weeks) (NCH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Kenneth Alexander
Kenneth.alexander@nemours.org; (407) 567-6724
Contact person: Tiffany Baulkman,
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This two or four week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric infectious diseases. Learning will occur through direct provision of care to children requiring infectious diseases consultation at the Nemours Children’s Hospital and at Nemours-associated clinics. Learning will also occur through formal and informal didactic presentations, bedside teaching, and through directed and undirected reading. The medical student will serve as an integral part of the care team, providing direct patient care under the supervision of the infectious diseases attending.

This rotation will emphasize diagnostic assessment through a detailed history, a careful physical examination, and appropriate use of laboratory studies. The rotation also emphasizes appropriate use of antimicrobial therapy, the understanding of post pathogen relationships, and the importance of social, emotional, physical, and medical legal issues that impact children with infectious diseases.

During the rotation, the medical student will, under the guidance of a supervising infectious disease physician, evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or suspected infectious diseases, including, but not limited to, those with nonoscomial infections, postoperative infections, trauma-related infections, septicemia, pneumonia, peritonitis, and infections in immunocompromised hosts, including patients with primary immunodeficiency syndromes, patients undergoing immunosuppressive therapy, and children and adolescents with HIV infection.

**Objectives:**
Medical students will demonstrate compassionate scientifically guided and effective care for the promotion of health, prevention of illness, and treatment of disease. Medical students must:

1. Demonstrate the ability to acquire and evaluate new information needed for the care of each patient.
2. Demonstrate the ability to perform meticulous physical examination of children across the age spectrum.
3. Demonstrate the ability to create comprehensive differential diagnoses that include both infectious and noninfectious etiologies for the patient’s illness.
Pediatric Infectious Diseases continued

4. Analyze accurately and apply available information to make appropriate diagnostic decisions and therapeutic plans.
5. Demonstrate the ability to create and evaluate patient management plans for children with infectious diseases.

Medical Knowledge

Medical students must demonstrate proficiency and obtaining new knowledge through didactic lectures, discussions on rounds, a signed and unguided readings, use of the internet, and consultation with colleagues. Students will apply an open-minded, analytical approach to acquire a new knowledge, and will assess their knowledge critically through continued use of the medical and scientific literature. Students will also apply new knowledge to clinical problem solving and to clinical decision making.

1. Describe the pathogenesis, clinical presentation, diagnostic approaches to infections encountered in children in the inpatient and outpatient settings.
2. Describe the appropriate use of diagnostic procedures and laboratory tests to evaluate and monitor children with suspected or proven infections.
3. Demonstrate competence for the selection of appropriate antibiotics, and demonstrate the ability to provide appropriate recommendations for antimicrobial use and monitoring.
4. Demonstrate knowledge and skill in the critical assessment of complex clinical infectious diseases problems.
5. Demonstrate knowledge of the appropriate, evidence-based management of inpatient and outpatient children with infectious diseases.
6. Demonstrate knowledge of approaches for diagnosis and management of proven and suspected infections in immunocompromised children.
7. Demonstrate an understanding of the rationale for and nature of infection control policies.
8. Demonstrate understanding of the variation in epidemiology of infectious diseases among different age groups, states 4 immune function, socio-demographic groups, and geographic locations.

Practice Based Improvement:

Medical students are expected to evaluate and critically assess patient care practices, as well as appraise and disseminate clinical information. Students will also demonstrate an ability to learn from their own and others’ mistakes.

- Demonstrate proficiency in the use of the pediatric infectious diseases literature
- Apply up-to-date evidence-based information to address clinical questions and to guide medical therapy
- Evaluate their own performance, identifying gaps in their knowledge base, and target their self-directed learning to improve performance and address knowledge gaps.
- Provide, request, and accept and incorporate feedback from all colleagues and from patients and their families.
- Work with all members of the health care team to enhance team and knowledge and esprit de corps.

Interprofessional and Communication Skills:

Medical students are expected to demonstrate consistent interpersonal and communication skills that result in effective information exchange and support of families and colleagues.

- Demonstrate effective communication with the entire health care team
- Demonstrate effective communication with patients and their families
Pediatric Infectious Diseases continued

- Demonstrate the ability to communicate crucial and appropriate information through written medical records and patient case presentations
- Demonstrate appropriate use of cultural and language interpreters as needed
- Demonstrate the ability to counsel and educate patients and their families in a comprehensive, supportive, and culturally-appropriate manner

Professionalism: Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the health care system.
- Always act in the best interest of the patient
- Demonstrate a caring and respectful demeanor when interacting with patients and their families
- Maintain patient and family confidentiality
- Demonstrate sensitivity to ethical principles, culture, age, gender, religious belief, sexual orientation, and a disability
- Be punctual, reliable, and conscientious

Systems Based Practice: Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the health care system.
- Advocate for patients and their families as they navigate the complexities of the healthcare system
- Describe a role of the subspecialist in consultation
- Participate in multidisciplinary patient care activities
- Participate actively and regularly in educational and case management conferences
- Demonstrate knowledge of restrictions in public and private insurance and the ramifications of these restrictions in the care of patients
Electives
Ophthalmology/Pediatrics

Not Currently Available: Adolescent Medicine Elective
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8410 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH) Arnold Palmer Hospital for Children
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

The elective is designed to acquaint the student with the fundamentals of adolescent medicine by providing an outpatient, community-based exposure to the care of adolescents. Inpatient consultations will also be performed. The student will learn to perform a complete biopsychosocial history and physical examination of the adolescent. Introduction to adolescent gynecology and reproductive health will also be included.

Objectives:
1. Describe normal patterns of physical growth and pubertal development.
2. Conduct an appropriate adolescent interview, obtaining the required history while being sensitive to the needs of adolescent.
3. Demonstrate various techniques of separating the adolescent from the parent in order to conduct a confidential interview.
4. Demonstrate proficiency in counseling patients and parents about anticipated developmental changes in the various states of adolescence.
5. Describe the proper procedure for the adolescent gynecology examination.
6. Demonstrate proficiency in counseling adolescent patients about risk behaviors and risk prevention.
Electives
Ophthalmology/Pediatrics

**Pediatric Orthopaedics Elective**
Clerkship Director: Charles Price, M.D.

**MDE 8485 2**
Must be scheduled through VSAS
Full-time (4 weeks)
Grading Basis: Pass/Fail
(Oh)
Primary Faculty Supervisor: Dr. Charles Price
Contact person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 4 each block

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

**MDE 8485 7**
Full-time (2-4 weeks)
(Nch) Pediatric Emergency Department
Grading Basis: Pass/Fail
First Day: Report to Nemours Children’s Hospital @ 8:30 am
Primary Faculty Supervisor: Dr. John Lovejoy,
john.lovejoy@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

Time will be divided between outpatient clinics, inpatient rounds and surgery. Weekly preoperative and post-operative clinics are held, as are didactic conferences. Call is encouraged but not required.

**Objectives:**
1. Upon completion of the course, the student should be able to perform a complete pediatric orthopaedic examination.
2. Be able to treat simple fractures and be aware of the dangers and possible complications of the more complicated fractures.
3. He/She should be able to apply a cast and able to use traction.
Electives
Ophthalmology/Pediatrics

Pediatric Otolaryngology Elective
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8592
Full-time (2-4 weeks) (NCH) Nemours Childrens Hospital
First Day: Report to Nemours Children’s Hospital lobby
Grading Basis: Pass/Fail @ 8:30 am for a tour and brief orientation.
Primary Faculty Supervisor: Dr. Cynthia Chen
(NCH) Nemours Childrens Hospital
(407) 414-1348, Cynthia.chen@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

This rotation is intended for students interested in but not excluding Pediatric Otolaryngology, Pediatrics, Family Medicine, Emergency Medicine, Critical Care, Allergy subspecialties, and Pulmonary subspecialties. Children with common chronic conditions such as sleep disordered breathing, chronic sinusitis, otitis media, hearing loss, etc frequently require Otolaryngological care. With this rotation, we hope to provide insight into how Otolaryngologists work with primary care physicians to evaluate, diagnose, determine surgical candidacy, provide surgical risk and complication counseling, and treat these common conditions. Students will also have opportunity to see complex Otolaryngology care involving Neuro-otologic procedures such as cochlear implantation, airways procedures, and head and neck surgeries.

Otolaryngologists are also frequently involved in the care of children with complex medical conditions, so students will be exposed to children with Downs syndrome and other craniofacial syndromes and abnormalities and participate in complex medical decision making.

Students will be expected to become familiar with guidelines for medical treatment and surgical candidacy as set forth by national societies such as the AAP and AAO-HNS.

The student will be expected to attend educational conferences such as surgical grand rounds, journal clubs, morbidity and mortality conference, and aerodigestive multidisciplinary conference. The student will be expected to give an 8-10 minute case and topic presentation at least once during the rotation. We hope that by the end of the rotation, the student will be come comfortable and competent with basic clinical skills specific to ENT, such as using otologic equipment with the microscope, performing nasal and laryngeal endoscopy, and understanding wound care.
ELECTIVES
PSYCHIATRY/
NEUROLOGY
Electives
Psychiatry/Neurology

Pediatric Psychiatry in the Hospital Setting

MDE 8870                     First Day: Report to Nemours Children’s Hospital lobby @
Full-time (4 weeks)           8:30 am
(NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Christopher Borrillo
Contact Person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block  Currently Unavailable

4th year students interested in a Psychiatry career will gain clinical experience with a broad range of
patients from medically ill children to children presenting to a typical outpatient clinic. The inpatients
will present with a wide range of health problems (cancer, cystic fibrosis, etc) often associated with
various psychiatric morbidities (e.g. mood, anxiety, and/or family adjustment issues). On the outpatient
service, students will work with multidisciplinary teams (e.g Pain Treatment team) and conduct
videotaped intake interviews which will be reviewed to provide feedback on interview skills and creation
of a differential diagnosis.

Objectives:
1. Effectively interview both children and adolescents, using collateral information from parents, in order to
develop appropriate biopsychosocial evaluation and treatment plans for patients with various psychiatric
conditions.
2. Understand the role of the psychiatrist on the pediatric wards and ICU by responding to consultations and
creating readable and complete record of findings from the psychiatric exam.
3. Demonstrate liaison skills by working well with a variety of professionals (consulting physicians, nurses,
social workers, child life specialists, etc) to uncover the question behind the consultation question and
assist colleagues in managing children or families facing significant stressors.
4. Understand the principles, techniques, and indications for effective psychotherapies and behavioral
medicine interventions in patients both with medical illnesses and being evaluated in an outpatient clinic.
5. Demonstrate interpersonal communication skills that result in the effective exchange of information and
collaboration with patients, their families, and other health professionals.

Learning Activities:
1. Assistance with consults with application of psychiatric therapies (pharmacologic and psychotherapeutic).
2. The student will prepare a team-based learning case to be used by 3rd year students on pediatric rotation
focusing on diagnosis or management of a specific child seen during the month.
3. Weekly videotaped intake interviews on the outpatient service.
4. Formal and/or informal didactics with Dr. Boris along with associated assigned readings.
5. Multidisciplinary therapeutic team meetings with Nemours staff members.
Electives
Psychiatry/Neurology

M4 Outpatient Psychiatry at Coastal Mental Health Center (CMHC)

MDE 8900
First Day: Report to 571 Haverty Court, Suite Y, Rockledge, Fl, 32955 @ 9:00 am
Full-time (4 weeks)
(PO) Coastal Mental Health Center
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Christine Grissom
Contact Person: Dr. Christine Grissom
(407) 342 – 1255; cagrissom@bellsouth.net
Maximum Enrollment: 1 per block (None in December)

Goal is for the student to gradually assume increasing responsibility, under supervision, for the evaluation and evidence-based treatment of patients in the CMHC outpatient setting. The student will gain experience establishing a therapeutic alliance with a patient population of all ages, with a wide variety of psychiatric disorders with comorbidities, and arrange of acuity of treatment needs. Responsibilities may also include some limited teaching of 3rd year UCF COM medical students. The intern’s hours will be Monday – Thursday 9:00am to 7:00pm, divided between the 2 CMHC sites. No on-call, no weekend duties.

Objectives:
1. Perform and document a complete psychiatric diagnostic evaluation, identifying psychopathology, and developing appropriate biopsychosocial evaluation (laboratory, radiologic, and psychological testing) and treatment plans. Once emphasis will be on establishment of a therapeutic alliance and rapport; during follow-up visits, the patient’s progress and course (including any ordered laboratory studies), diagnoses, and treatment plan, will be assessed and revised as indicated, with appropriate documentation.
2. Appropriately utilize the indications for psychiatric hospitalization, considering presenting problem and its acuity, risk of danger to patient or others, community resources, and family support; when necessary, help implement the process of involuntary hospitalization.
3. Demonstrate the ability to appraise and assimilate scientific evidence, utilizing relevant databases of psychiatric evidence-based medicine, to improve patient care and teach 3rd year medical students rotating in Psychiatry.
4. Demonstrate interpersonal communication skills that result in the effective exchange of information and collaboration with patients, their families, and other health professionals and students.
5. Student will develop skills for patient transition to successful terminations of treatment when indicated, with appropriate documentation.

Learning Activities:
1. Daily supervised patient evaluation and treatment in the outpatient setting. Patient assessments and treatment plans/disposition will be presented and discussed with Dr. Grissom.
2. Attend multidisciplinary treatment team meetings.
3. Ongoing use of medical/scientific databases at point of care to ensure use of evidence-based medicine.
Electives
Psychiatry/Neurology

**Psychiatry Elective**

MDE 8836 6  
Full-time (4 weeks)  
First Day: Report to 119 Pasadena Place, Orlando, Fl 32803 @ 9:00 am  
(PV) Pasadena Villa (Residential)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Myrtho Mompoint-Branch  
drbranch@pasadenavilla.com  
Contact Person: Jessica Cuadros,  
(407) 246-5254; jessica.cuadros@pasadenavilla.com;  
drbranch@pasadenavilla.com  
Maximum Enrollment: 2 per block (Except in August)

Goal is to assume responsibility for psychiatric intake assessments for Pasadena patients who have a wide variety of psychiatric disorders. Become familiar with the transitional program at Pasadena Villa which helps patients work on life skills. No on-call. No weekend duties.

**Objectives:**
1. Perform and document complete psychiatric diagnostic evaluations in a residential care setting. The patient population has a variety of various psychiatric disorders including Autism Spectrum Disorders.
2. Identify psychopathology and develop appropriate biopsychosocial evaluation and treatment plans.
3. Demonstrate good interpersonal and communication skills that results in effective exchange of information with patients, families, and the treatment team.
4. Demonstrate ability to review professional literature and utilize evidence-based medicine to improve patient care.
5. Demonstrate and apply knowledge of psychopharmacology topics in treatment planning and management.
6. Demonstrate an ability to monitor and document patient’s clinical progress and update recommendations for treatment plan as indicated.

**Learning Activities:**
1. The student will present a topic in medication group to help the patients understand medications, side effects or mechanisms of actions.
2. The student will attend the transitional living and learning groups at Pasadena.
3. The student will participate in multidisciplinary treatment team meetings to provide feedback on assigned patients.
4. The student will prepare an in-service didactic presentation on relevant topic in Psychiatry to present to staff.
5. Informal discussions Dr. Branch of assigned readings.
Electives
Psychiatry/Neurology

**Not Currently Available: Post-Traumatic Stress Disorder Clinic**

MDE 8844
First Day: Report to UCF Main Campus Psychology Building 301A @ 9:00 am
Full-time (4 weeks)
(UCFM) UCF Main Campus
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Deborah Biedel
Contact Person: Sandra Neer, (407) 823-1668; Sandra.neer@ucf.edu
Maximum Enrollment: 1 per block (August, September, October, November, January, and February only)

Students will be under the direct supervision of licensed psychologists, as this unique rotation focuses on advanced psychotherapeutic assessment and treatment. Other medical and psychopharmacologic treatment will be provided only by outside consultants and is not the focus of this rotation.

**Objectives:**
1. Diagnosis, assessment and treatment of combat veterans with post-traumatic stress disorder (PTSD). Students will learn to conduct structured diagnostic interviews, participate in the conduct of individualized, virtual reality assisted exposure therapy, and group therapy that includes social reintegration strategies, anger management strategies and behavioral activation.
2. Students interested in pediatrics may participate in our program where we use virtual reality in the treatment of children with social anxiety disorder and selective mutism. Students will participate in all phases of the clinical research program including diagnostic interviewing, behavioral assessment and behavior therapy.

**Patient Care:** Learn advanced interviewing and psychotherapy techniques for adults and children with anxiety disorders.

**Medical Knowledge:** Demonstrate good fund of knowledge and clinical reasoning in provision of diagnosis and intensive psychotherapeutic treatment of PTSD and other anxiety disorders.

**Practice Based Improvement:** Demonstrate initiative in searching for and the application of research findings in the treatment of this population.

**Interprofessional and Communication Skills:** Provide clear and accurate communication about anxiety disorders with patients, parents, and other professionals.

**Professionalism:** Demonstrate ability to work well with professionals from other disciplines in the provision of group therapies to this patient population.

**Systems Based Practice:** Show ability to access and utilize outside resources for the continuity of care of patients.
Learning Activities:
Participate in intake evaluations – will be trained to administer self-report inventories and computerized diagnostic assessments. Will be trained in ability to assist in conducting behavioral assessments. Will serve as “co-leader” for group therapy. Will be trained to assist in conduct of exposure therapy sessions when appropriate.
Electives
Psychiatry/Neurology

**Neurodegenerative Disease: Research & Clinical Care**
Clerkship Director: Michael Bellew, M.D.

**MDR 8802 9**
Full-time (2-4 weeks)
(PO) Compass Research
100 W. Gore St., Orlando, FL
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Ira Goodman
ijgmd@aol.com

First Day: Report to Compass Research, 100 W. Gore St., Orlando, FL @ 9:00 a.m.

Contact person: Kimberly Murphy, Office Manager,
(407) 210-1320; kmurphy@compass-clinic.com

Maximum Enrollment: 1 each block by permission

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with neurodegenerative disease, with a focus on Alzheimer’s dementia and Parkinson’s disease. The clerkship director (Dr. Riggs) has fellowship-level training in these areas, and the primary faculty (Dr. Goodman) has over 20 years’ experience in care and evaluation of these patients. The elective will take place in the context of patients referred for possible participation in clinical trials, and exposure to clinical trial methodology is an additional focus. No on-call duties, no weekend activity.

**Objectives:**
1. Demonstrate the ability to assess patients with neurodegenerative disease; generate a thorough differential diagnosis for such patients; plan initial diagnostic and treatment interventions; discuss eligibility for clinical trials.
Electives
Psychiatry/Neurology

**Not Currently Available: Neuro-Oncology**
Clerkship Director: Michael Bellew, M.D.

MDE 8807 1
Full-time (2 weeks)  
(FH)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Sajeel Chowdhary  
Contact person: Paulette Gitles,  
paulette.gitles@flhosp.org  
First Day: Report to 2501 N. Orange Ave., Suite 286 @ 8:00 am. Tell Barbara you are working with Dr. Chowdhary  
Maximum Enrollment: 1 each block

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with brain tumors and other neurologic complications of cancer. No on-call duties. Weekend coverage at the discretion of the attending physician depending on patient load.

**Objectives:**

1. Demonstrate competence in the medical, neurological, and psychosocial assessment of patients with brain tumors; demonstrate interpersonal and communication skills necessary to counsel patients and families with life-threatening illness, demonstrate familiarity with standards of care for patients with brain tumors and neurological complications of cancer.
ELECTIVES
RADIOLOGY/
ANESTHESIOLOGY
/
EMERGENCY
MEDICINE
Electives
Radiology/Anesthesiology/Emergency Medicine

Radiation Oncology Elective

MDE 8780
Part-time (2 weeks)
(HF) Health First Cancer Services
First Day: Report to Health First Cancer Services (HFCS)
1130 S. Hickory St., Ste A, in Melbourne, Fl @ 8:00 am
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Nanialei Golden
Contact Person: Dr. Nanialei Golden,
(321) 409-1956; nanialei.golden@mima.com
Maximum Enrollment: 2 per block

MDE 8780
Not Currently Available
Full-time (4 weeks)
(PO) Winter Park Cancer Center
First Day: Report to Winter Park Cancer Center @ 8:00 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Alan J. Forbes
Contact Person: Dr. Alan Forbes,
(407) 478-4920; alanforbes@gmail.com
Maximum Enrollment: 2 per block

MDE 8780
Full-time (4 weeks)
(VA) Orlando VA
First Day: Report to Department of Radiation Oncology @ 8:00 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Diana Strip
Contact Person: Andrea Gelber;
VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 1 per block

Students will participate in all aspects of Radiation Oncology patient care from initial consultation and work up to simulation/treatment planning, radiation physics/dosimetry, and daily treatment. Students will gain an understanding of general cancer management from common to rare cancers. Depending on the types of cancer under treatment during the rotation, there may be opportunities to observe brachytherapy in the operating room or other special procedures. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds.
Radiation Oncology Elective continued

Objectives:
1. Understand the role radiation plays in cancer management.
2. Expand clinical knowledge of cancer and its various treatment options.
3. Understand common radiation side effects, specific causes and their management. Dispel radiation myths.
4. Enhance bedside manner, potentially improve conversations skills in patient communication in difficult circumstances.
5. Cancer management requires the interaction of multiple specialties including Medical Oncology, Surgical Oncology, Gyn Onc, Radiology and Pathology. Students will be part of this interaction.
6. Understand how cancer can impact multiple body systems and how cancer management impacts other synchronous illnesses.

Learning Activities:
This rotation is entirely outpatient. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds. Students will gain a general understanding of radiographic anatomy as it pertains to contouring cancer volumes, normal organ volumes and organs at risk of potential radiation damage. Literature review will be focused around patient population currently under treatment including the most common cancers (breast, prostate, lung).
Electives
Radiology/Anesthesiology/Emergency Medicine

Diagnostic Radiology Clerkship
Clerkship Director: Laura Bancroft, M.D.

MDE 8763 1
Variable (2-4 weeks)
(FH) Radiology Department
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Laura Bancroft
Laura.bancroft.md@flhosp.org
Contact person: Patti Horvath,
(407) 303-6973; patti.horvath@flhosp.org; Simona
Milosevska, simona.milosevska@flhosp.org
Maximum Enrollment: 1 each block

First Day: You will receive an email from Patti Horvath
the Friday before the start of your rotation. This email
will include the name of the physician you will be
working with, rotation name, campus location, and time.

This rotation is open to all M4s and is particularly suited to students who have completed a general
radiology elective or plan to pursue a career in Radiology. The student will gain experience in this
exciting field which will utilize all modalities of radiology (general radiography, ultrasound, fluoroscopy,
nuclear medicine, CT, and MRI). Students will particulate pin radiology procedures, readout of cases and
weekly case presentations. There are no call or weekend responsibilities.

Rotations can be general diagnostic radiology which will give an overview of all modalities—or specialty-
specific rotations (i.e. Angio-interventional Radiology, Pediatric Radiology, Neuroradiology, Nuclear
Medicine, Cardiac Radiology, Body (MRI, CT, US, Oncology combined); Musculoskeletal Radiology, and
Women’s Radiology.

Objectives:
1. Understand the clinical radiographic indications for a variety of imaging modalities and examinations.
2. Understand the major procedure-specific activities of physicians and associated pediatric patient
   experiences for the differing image modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance
   of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds
   and weekly case conferences.
Electives
Radiology/Anesthesiology/Emergency Medicine

**Neuro-Radiology**
Clerkship Director: Michael Bellew, M.D.

MDE 8767 9
Full-time (2 weeks)  First Day: Report to NSI of Winter Park, FL, 2111 Glenwood Drive., Suite 101, Orlando, FL 32792 @ 9:00 a.m.
(PO) Neuro-Skeletal Imaging of Winter Park
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Marc Shapiro
*Contact person:* Dr. Marc Shapiro
(407) 478-1550; *shapmd@gmail.com* &
*vsccott@nueroimagingwp.com* & Richard Duemmling
*RDuemmling@nueroimagingwp.com*
Maximum Enrollment: 1 each block (every other block)

The focus of the elective is to provide students an intensive exposure to various modalities used in imaging the central nervous system, with a focus on MRI or CT. Students will gain experience interpreting results. No on call-duties and no weekend coverage.

**Objectives:**
1. Demonstrate competence in the selection of imaging tests to evaluate central nervous system structure and physiology; demonstrate familiarity with standards of care for patients undergoing neuro-imaging procedures; demonstrate basic skills in interpretation of common neuroimaging modalities.
Electives
Radiology/Anesthesiology/Emergency Medicine

**Pediatric Radiology**
Clerkship Director: Laura Varich, M.D.

**MDE 8769 1**
Full-time (2 or 4 weeks)  
(FH) Radiology Department  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Laura Varich  
*Contact person: Patti Horvath, (407) 303-6973; patti.horvath@flhosp.org; Simona Milosevska, simona.milosevska@flhosp.org*  
Maximum Enrollment: 1 each block (except in July)

First Day: You will receive an email from Patti Horvath the Friday before the start of your rotation. This email will include the name of the physician you will be working with, rotation name, campus location, and time.

**MDE 8769 7**
Full-time (2 or 4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. David Dinan,  
david.dinan@nemours.org  
*Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org*  
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in a pediatric specialty. The student will gain experience in this exciting field which utilizes all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT and MRI). Students will participate in radiology procedures, read-out of cases, and weekly case presentations. There are no call or weekend responsibilities.

**Objectives:**

1. Understand the clinical and radiographic indications for a variety of pediatric imaging modalities and examinations.
2. Understand the major procedure specific activities of physicians and associated pediatric patient experiences for the differing modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.
Electives
Radiology/Anesthesiology/Emergency Medicine

Pediatric Emergency Medicine
Clerkship Director: Katia Lugo, M.D.

MDE 8505 1
Full-time (4 weeks)                             First Day: Report to (FH) Radiology Dept., 601 Rollins Ave., Orlando, FL @ 8:00 a.m.
(FH) Pediatric Emergency Department
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Dennis Hernandez
dmkhern@aol.com or dhernandez.em@gmail.com
Contact person: Katherine Bradford, Program Coordinator
(407) 303-6413; Katherine.bradford@flhosp.org
Maximum Enrollment: 1 each block
***All requests for time off must be sent to Dr. Lugo at klugomd@flhemclerkship.com and Katherine Bradford at Katherine.bradford@flhosp.org no less than two weeks prior to the start of your rotation.

MDE 8505 7
Full-time (4 weeks)                             First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am
(NCH) Pediatric Emergency Department
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Shiva Kalidindi
Shiva.Kalidindi@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org
Maximum Enrollment: 2 each block

MDE 8505 5
Full-time (4 weeks)                             First Day: Students should contact Stephanie Jorge for instructions
(HCA) Osceola Regional Pediatric Emergency Department
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Jeffery Bergman
Contact person: Stephanie Jorge, GME Coordinator, (407) 518-3347, stephanie.jorge@hcahealthcare.com
Maximum Enrollment: 2 each block

The course is designed to expose the student to patient assessment and emergency management of a large number of pediatric patients entering a metropolitan Pediatric Emergency Department. Instruction is centered around bedside clinical supervision by faculty and residents in a busy Pediatric Emergency Department. Students will be expected to prepare a 45 minute case presentation from one of the cases encountered during their rotation.
Pediatric Emergency Medicine continued

Students will work eight hour shifts with approximately 5 shifts per week. These shifts will include 2 weekends per month. Shifts will be distributed between day and evening (not overnight) shifts.

Objectives:
1. Gain exposure to both emergent and urgent care of pediatric patients.
Electives
Radiology/Anesthesiology/Emergency Medicine

**Emergency Medicine Elective**
Clerkship Director: Katia Lugo, M.D.

**MDE 8710 1**
Full-time (4 weeks)  
(FH)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Dale Birenbaum, Dr. Steve Nazario, Dr. Bethany Ballinger, Dr. Ademola Adewale, Dr. Alfredo Tirado, & Dr. Dennis Hernandez  
Contact person: Katherine Bradford, Program Coordinator  
(407) 303-6413; Katherine.bradford@flhosp.org  
Maximum Enrollment: Varies  
***All requests for time off must be sent to Dr. Lugo at klugomd@flhemclerkship.com and Katherine Bradford at Katherine.bradford@flhosp.org no less than two weeks prior to the start of your rotation.***

**MDE 8710 5**
Full-time (4 weeks)  
(HCA)  
Grading Basis: Pass/Fail  
First Day: Students should contact Stephanie Jorge for instructions  
Primary Faculty Supervisor: Dr. Tracy MacIntosh  
Contact person: Stephanie Jorge, GME Coordinator, (407) 518-3347, stephanie.jorge@hcahealthcare.com  
Maximum Enrollment: 1-2 per block

**MDE 8710 3**
Full-time (4 weeks)  
(VA) VA Lake Nona  
Grading Basis: Pass/Fail  
First Day: Students should report to Urgent Care/ED at 7:00 am  
Primary Faculty Supervisor: Dr. Veronica Sikka, 407-631-1712, veronica.sikka@va.gov  
Contact person: Andrea Gelber, (407) 631-4727, vhaorlmedicaleducationcoordinators@va.gov  
Maximum Enrollment: 1 per block

This course is designed to expose the student to patient assessment and Emergency Department management of a large number of patients entering a metropolitan Emergency Department and Pediatric Emergency Department. During this elective, the student will have responsibilities,
supervision, and performance expectations comparable to that of a starting first year EM resident. Instruction is centered around bedside clinical supervision by faculty and residents in two busy Emergency Departments. A comprehensive didactic schedule is provided and includes conferences prepared for residents and students, as well as conferences designed exclusively for students. If available, there will be teaching time dedicated to the use of Ultrasound in the Emergency Medicine setting.

**Objectives:**
1. Perform an appropriate history and physical examination on pediatric, adult, and geriatric patients.
2. Recognize common, urgent, and emergent problems, and develop a differential diagnosis for these common presentations.
3. Interpret results of common lab studies, recognize basic ischemic patterns and arrhythmias on EKG tracings and interpret radiographs of the chest, abdomen, and extremities.
4. Recognize the indications for the specialty or subspecialty consultation and/or admission.
5. Apply real time data acquisition to patient management.
Electives
Radiology/Anesthesiology/Emergency Medicine

Anesthesia Elective
Clerkship Director: Eugene Freid, M.D.

MDE 8700 1
Full-time (4 weeks)  First Day: Contact Dr. Eugene Freid at (407) 686-5787, Eugene.freid@usap.com one week before the start of the rotation for reporting instructions. Start time will be 6:30 am.
(FH) Florida Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Eugene Freid, Eugene.freid@usap.com
Contact person: Audra Gasko, (407) 667-0444 x7170; audra.gasko@usap.com; Lindsley Alida, (321) 422-7171; lindsley.alido@usap.com
Maximum Enrollment: 1 each block

Under the supervision of attending physicians the 4th year student will participate in the care of patients requiring local, regional, and general anesthesia at various levels. Work hours will fall within current ACGME guidelines. In house call will not be a requirement.

Objectives:
1) Clinical Skills
   All students completing this rotation will be able to demonstrate competency in:
      a) Insertion of an intravenous line
      b) Basic Airway Management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy / intubation, and atraumatic placement of laryngeal mask airway (LMA).

2) Didactics
   All students completing this rotation will receive didactics on the following areas:
      a) Basic pharmacology of various anesthetic agents
      b) Airway Management:
         a. Anatomy of the airway (adults vs. pediatric)
         b. Airway assessment
         c. Basic skills and tools to maintain ventilation and oxygenation
         d. Outline the proper and sage way of inducing patients including rapid sequence inductions
         e. Outline basic intubation techniques
         f. Outline the Difficult Airway Algorithm
      c) The role of the anesthesiologist as a perioperative physician
         a. Outline the important aspects of pre-operative assessment, risk stratification, and medical optimization of patients. Learn the ASA physical status classification.
b. Outline the critical aspects of intra-operative anesthetic management during induction, maintenance, and emergence from anesthesia. Learn the various non-invasive and invasive intra-operative monitors. Teach the basic concept of the anesthesia machine.

c. Outline the post-surgical care of patients including critical care and pain management.

**Anesthesia Elective continued**

d) Problem Based Learning (PBL) Sessions

a. Students will be exposed to a series of PBL sessions designed to illustrate common clinical anesthesia problems.
Electives
Radiology/Anesthesiology/Emergency Medicine

Anesthesia Elective
Clerkship Director: TBD

MDE 8702 3
Full-time (2 weeks) (VA) VA Lake Nona
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Relin Yang
Contact person: VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 1 each block

First Day: On the first day, report to the 3rd floor OR at the Lake Nona VA @ 7:00 a.m. Please review the First Day Reporting Instructions document found on the M4 GPS site. Students should email Medical Education Coordinators to get computer access codes.

The University of Central Florida College of Medicine Selective in Anesthesia will introduce the student to evidence based care of the patient requiring surgery in an outpatient setting. They will have exposure to local, regional, or general anesthesia as well as the necessary preparation and care rendered in the preoperative and perioperative setting. The student will spend 2-4 weeks on the anesthesia service. Students will be responsible for the evaluation and workup of patients in the outpatient setting. There will also be opportunity for evaluation and assessment for patients receiving care for chronic pain. The student will be responsible for regular attendance. Students will be exposed to a series of practice based learning (PBL) sessions designed to illustrate common clinical anesthesia problems.

Objectives:

Medical Knowledge:
1. Begin to learn the fundamentals of anesthesiology as applied to surgery. Examples include the effect of induction agents, inhalation anesthetic agents, and muscle relaxants. Students should obtain an understanding of the effect of these agents on the respiratory physiology, circulatory physiology, and the fluid and electrolyte balance of the surgical patient. Evaluation of blood gas analysis and treatment of acid/base disorders.
2. Begin to understand the anesthesia preoperative exam and the concerns faced by the anesthesiologist when anesthetizing a surgical patient.
3. Understand the reasoning for ordering diagnostic laboratory procedures in the preoperative patients. Examples include liver function tests, serum chemistries, arterial blood gas analyses and hematologic profiles.
4. Begin to understand the different types of anesthetic care. Examples include general anesthesia, spinal anesthesia, epidural anesthesia, and regional anesthesia and an understanding of when the various types of anesthetic care are indicated and which patients will benefit from regional versus general anaesthesia.
5. Begin to understand the commonly used anesthesia non-invasive monitors and the anesthesia machine.
6. Begin to understand the methods of securing/supporting an airway and associated complications.
   a. Anatomy of the airway (adult vs. pediatric)
   b. Airway assessment

   Anesthesia Elective—Continued

   c. Basic skills and tools to maintain ventilation and oxygenation
   d. Outline the proper and safe way to inducing patients including rapid sequence inductions
   e. Outline basic intubation techniques
   f. Outline the Difficult Airway Algorithm
   g. Perform a successful laryngoscopy and intubation on an adult with normal anatomy.

7. Begin to understand the medical procedural treatment of chronic pain syndromes.

Patient Care:
1. Perform pre-anesthetic physical examinations including specific knowledge regarding the patient’s airway and possible need for advanced airway intubation techniques. Basic Airway management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy/intubation, and atraumatic placement of laryngeal mask airway (LMA).

Interpersonal Communication Skills:
1. Demonstrate skill and sensitivity when counseling and educating patients and their families in a variety of anesthesia options.
2. Work effectively with the health care team.
3. Present patients in a concise, organized, logical, and knowledgeable manner.
4. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

Practice-Based Learning and Improvement:
1. Use textbooks and journal articles to learn principles of anesthesia as applied to surgery.
2. Attend department of surgery conferences.

Systems-Based Practice:
1. Understand the relationship and shared responsibilities between anesthesiologists and surgeons.

Professionalism:
1. Demonstrate adequate communications skills while dealing directly with patients.
2. Arrive in the OR on time, prepared for the procedure.

Procedures:
Under appropriate supervision, the student will have the opportunity to assist and at times perform basic anesthesia procedures such as:
- Tracheal intubation using different techniques
- Regional anesthesia, spinal and epidural
- Placement of intravenous lines
Electives
Radiology/Anesthesiology/Emergency Medicine

Pediatric Anesthesia
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8900 7
Full-time (2-4 weeks)  
(NCH)
First Day: Report to Nemours Children’s Hospital lobby  
@ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Lisgelia Santana
lisgelia.santana@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224; 
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

The fourth year rotation is designed to provide senior medical students with insights into the subspecialty of anesthesiology and the importance of the anesthesiologist in caring for patients prior to surgery, during surgery, and during the post-operative period. The rotation is hands-on and illustrates the role of the anesthesiologist in the clinical setting. During the rotation, students are assigned to an individual faculty mentor to guide them and be responsible for their daily clinical activities.

During the rotation, students become familiar with the many facets of the practice of anesthesiology, including the perioperative setting, pre-anesthetic evaluation, inducing and maintain anesthesia during surgery, patient emergence from anesthesia and post anesthesia care. By the end of the rotation, it is expected that the medical student will have developed a knowledge base allowing them to identify and manage common pre-operative concerns facing anesthesiologists and surgeons; developed an awareness and appreciation of the importance of patient safety relative to the anesthesiologist and operative course to the patient; comprehend pharmacological dosing, effects, and complications related to various anesthetic techniques; acquire a basic facility with airway and ventilator manipulation; and be able to contribute substantially to the management of regional or general anesthetics under the supervision of a licensed anesthesiologist. Our rotation is an opportunity for the medical student to gain valuable experience and knowledge of the operating room setting. You will be exposed to the challenges faced by anesthesiologists and surgeons on a daily basis and how contribute to the provision of excellent patient care while coping with the demands of a busy clinical setting. You are also expected to attend Morbidity and Mortality lectures as well as Surgical Grand Rounds on the first and second Wednesday of each month. Also a brief powerpoint presentation is required at the end of the rotation. The medical student will also interact with the Pain Clinic once or twice during the rotation. This is a valuable educational opportunity not only for those students who are considering
anesthesiology as a specialty career path, but also for those who want to develop practical skills and knowledge that can serve as a foundation for practice in other specialties.

ELECTIVES

SURGERY
Electives
Surgery

Not Currently Available: Cardiothoracic Surgery Elective

MDE 8632 5  First Day: Report to Central Florida Cardiac & Vascular
Full-time (4 weeks)  Institute (CVICU) at Osceola Regional Medical Center @
(HCA) Osceola Regional Medical Center  7:00 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Kristopher George
Contact Person: Brittany Pridham, RN, BSN; (407) 846-0090;
Brittany.pridham@hcahealthcare.com
Maximum Enrollment: 1-2 per block

This rotation is intended for the student with interest in Cardiothoracic Surgery. The medical student will
be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide
variety of cardiothoracic surgical diseases. The student will be involved with the patient evaluation in
the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily
inpatient rounds, outpatient clinic, minor procedures, as well as well as major operations. Call will
primarily be every other weekend.

Objectives:
Patient Care:
1. Recognize common cardiothoracic surgical problems and emergencies.
2. Recognize cardiothoracic surgical complications.
3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient
   setting.
4. Assist in preparing patients for discharge.

Medical Knowledge:
1. Learn the fundamentals of basic sciences in cardiothoracic surgery.
2. Learn cardiovascular physiology, nutrition, hemodynamics, and fluids and electrolytes.
3. Read for the operative cases and be prepared for the OR.
4. Understand the pathology of cardiovascular and thoracic diseases.
5. Understand diagnostic tests commonly used cardiothoracic patients.
6. Practice evidence-based medicine by reviewing the literature.

Practice Based Improvement:
1. Utilize a cardiothoracic surgery textbook and journal articles to study cardiothoracic diseases.
2. Document your activities in the chart in a timely fashion.

Interprofessional and Communication Skills:
1. Learn to communicate well with families.
2. Learn to interact with the surgical team.
M4 Clerkship in Cardiothoracic Surgery continued

3. Work well with other members of the health care team.

Professionalism:
3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.
4. Maintain accountability for personal actions and decisions.

Systems-Based Practice:
1. Only communicate with families under the direction of Faculty.
2. Communicate with the health care team members about the surgical patients.

Learning Activities
The medical student will present in daily inpatient rounds, attend clinic, and participate in surgery. He/She will also practice evidence-based medicine by performing literature searches on the cardiothoracic surgery diseases of their patients.
**General Thoracic Surgery Elective**

**MDE 8900 3**  
First Day: Report to Department of Surgery, Room 4J106 @ 7:30 am  
(VA) Lake Nona VA  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Andrew Heller, Andrew.heller2@va.gov, 407-631-4714  
Contact Person: Andrea Gelber, vhaorlmedicaleducationcoordinators@va.gov  
Maximum Enrollment: 1 per block

The overall goal and objective of the rotation is to obtain an introduction to non-cardiac Thoracic Surgery. During this rotation, the students will be responsible for the day-to-day management of patients referred to Thoracic Surgery under the direct supervision of a thoracic surgeon. The rotation will provide education in the care and management of surgery patients including diagnosis, treatment decision making, presentation on rounds and appropriate documentation. The student is encouraged to present a case presentation at the end of their rotation.

**Objectives:**

**Patient Care:**
1. Demonstrate consistent skills in gathering accurate information from all sources, including medical interviews, medical records, and diagnostic/therapeutic procedure  
2. Define principles of pre-operative evaluation for patients in thoracic surgery  
3. Describe components of post-operative care for general thoracic surgery patients  
4. Determine the management and treatment of different chest wall tumors  
5. Describe the differential diagnosis of mediastinal masses.

**Medical Knowledge:**
1. Assess patients and base treatment decision making according to the type of chest disease.  
2. Discuss the evaluation of benign and malignant non-cardiac diseases of the chest.  
3. Recognize different treatment options based on tumor type, location and staging.  
4. Discuss the causes and management of pleural effusions.  
5. Determine the management of a chylothorax  
6. Discuss the management of acute and chronic empyema

**Practice Based Improvement:**
1. Identify areas for improvement and implement strategies to enhance knowledge, skills,
attitudes and processes of care.
2. Analyze and evaluate practice experiences and implement strategies to continually improve

**M4 Clerkship in General Thoracic Surgery continued**

the quality of patient practice.
3. Develop and maintain a willingness to learn from errors and use errors to improve the systems or processes of care.
4. Demonstrate the ability to use information technology or other available methodologies to access and manage information, support patient care decisions and enhance both patient and physician education.

**Interprofessional and Communication Skills:**
1. Provide effective and professional consultation to other physicians and health care professionals and maintain therapeutic and ethically sound professional relationships with patients, their families, and colleagues.
2. Demonstrate proficiency in documenting patient's history, physical findings and plans of care in a concise note using the electronic health record.
3. Demonstrate the ability to effectively communicate information to patients and family members concerning diagnosis and plans for care in a compassionate and appropriate manner.

**Professionalism:**
1. Demonstrate respect, compassion, integrity, and altruism in relationships with patients, families and peers.
2. Demonstrate respect for cultural differences, religious beliefs and other personal qualities of their patients, families and peers.
3. Adhere to principles of confidentiality, academic and scientific integrity and informed consent.

**Systems-Based Practice:**
1. Access and utilize the resources, providers and systems necessary to provide optimal care.
2. Recognize the limitations and opportunities inherent in various practice types and delivery systems, and develop strategies to optimize care for the individual patient.
3. Apply evidence-based, cost-conscious strategies to diagnosis and disease management.
4. Advocate for patients and their families and help them navigate the medical system complexities.

**Learning Activities**
1. Initial Consultation/consenting process
2. Assist in the operating room
3. Participate in daily rounds both in the ICU and surgical wards.


The medical student will be evaluated by his/her engagement in the entire learning opportunity including presentations, preparedness for clinic, and overall participation and engagement in the rotation. There will be a
formal feedback session at mid-term and at the end of the rotation. Feedback for continuous improvement will be provided throughout the rotation. A final evaluation will be provided at the completion of the rotation.

Electives
Surgery

Clinical Elective in Vascular Surgery

MDE 8605 3
Full-time (4 weeks)
First Day: Report to the Lake Nona VA Vascular Surgery Clinic Room 3G-902 @ 8:00 am. Please review the First Day Reporting Instructions document found on the M4 GPS. Students should email Medical Education Coordinators to get computer access codes.

(VA) VA Lake Nona
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Frederick Fisher
Contact Person: (407) 629-1599 x1143;
VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 2 per block

Goal of clinical elective is to expose fourth year medical students to the vast array of vascular disease seen at a busy Veterans Administration Hospital including the risk factors for disease, clinical presentation, and treatment modalities. The risk factor modification for these patients with multiple medical co morbidities will be stressed. The history and physical findings will be the cornerstone of the workup for these patients with appropriate laboratory and radiologic studies based on the findings. Treatment options will include non-surgical approaches, minimally invasive approaches and surgical approaches. Since these patients have multiple organ systems affected by their diseases, the students will need to integrate many of the disciplines they have learned over the first three years of medical school training. This will give the students an early opportunity to sharpen clinical skills in history taking, physical diagnosis, and decision making. These skills have a broad application to all fields of medicine, so elective is appropriate to students interested in surgery or non-surgical fields.

The radiology department works closely with the vascular surgery department so the student will have ample opportunities to review studies in radiology. The students will follow their patients to the operating room and the PACU to further their learning of the disease process.

The student will be given the opportunity to create a presentation of one or two patients to the members of the department at either the multidisciplinary conference or the surgical conference. If the presentation warrants publication in a peer reviewed journal, then the student may go on to write a case report for submission with the assistance of the clerkship director.
Initially there will be no night or weekend activities. Once the VA hospital opens there will be opportunity to incorporate this into the program.

**Clinical Elective in Vascular Surgery continued**

**Objectives:**
1. Identify and respect patients’ differences and expressed needs.
2. Listen to, clearly inform, and communicate well with patients.
3. Share decision making management with emphasis on disease prevention and wellness with a promotion of healthy lifestyles.
4. Use established and evolving clinical and basic science knowledge to further patient care.
5. Assimilate appropriate scientific evidence to improve patient care.
6. Improve communication skills regarding information transfer with patients and their families.
7. Maintain professional behavior with strict adherence to accepted ethical standards.

**Learning Activities:**
1. Patient care will include daily patient visits in clinic. Student will be given advance notice of specific type of clinical problems to prepare for the encounter. After each patient visit a review of appropriate history and physical including relevant radiologic studies will occur with the instructor.
2. Student will be present in operating room twice on most weeks.
3. Review of literature will be continuously stressed by the instructor.
4. Student will be given opportunity for case presentation as noted above.
Electives
Surgery

Plastic Surgery 4th Year Elective
Clerkship Director: George Pope, M.D., FACS

MDE 8660 9
Full-time (4 weeks) First Day: Report to Orlando Plastic Surgery Center,
(PO) Orlando Plastic Surgery Center 3872 Oakwater Circle, Orlando 32806 at 8:15 am.
Grading Basis: Pass/Fail Wear office attire or white coat.
Primary Faculty Supervisor: Dr. George Pope
georgehpope@gmail.com
Contact person: Dr. George Pope
(407) 857-6261; georgehpope@gmail.com
Maximum Enrollment: 1-2 each block

Students will gain exposure to the diverse specialty of plastic surgery by working in office, operating room and hospital settings, (Orlando Health and Florida Hospital), with a number of private practice surgeons, whose differing interests will provide a broad exposure. Occasional weekend cases may exist if an attending is on ER call.

Objectives:
1. Understand basic principle of wound management, with emphasis on preservation of vital tissues and structures.
2. Demonstrate proficiency in basic suturing techniques.
3. Have a basic understanding of the broad specialty of plastic surgery.
4. Show competence in the evaluation of plastic surgery using a problem-based approach to formulate a surgical plan.
UNIVERSITY OF CENTRAL FLORIDA
COLLEGE OF MEDICINE
FOURTH YEAR (M4)

Electives
Surgery

Orthopaedic Patient Care and Surgical Techniques

MDE 8603
Full-time (4 weeks)
(PO) Jewett Orthopaedic Clinic
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Michael Jablonski
Contact Person: Jeanetta Lawrence,
jlawrence@jewettortho.com; Susan Kemper,
skemper@jewettortho.com; Kendra Schanback,
kschanback@jewettortho.com
Maximum Enrollment: 4 per block

First Day: Determined on an individual basis. Contact Jeanetta Lawrence for instructions.

Program Overview:
1. Ability to collect/organize a meaningful history.
2. Ability to perform a thorough and accurate evaluation.
3. Ability to organize and access data.
5. Technical skills.
6. Interpersonal relations with patients/health team.

Objectives

Patient Care:
1. Identify, respect, and care about patient differences, values, preferences, and expressed needs.
2. Listen to, clearly inform, communicate with, and educate patients.
3. Share decision making and management.
4. Continuously advocate disease prevention, wellness, and promotion of healthy lifestyles, including a focus on population health.

Medical Knowledge:
1. Established and evolving biomedical, clinical, and cognate (e.g. anatomical, physiological, and social behavioral) sciences and the application of knowledge of patient care.

Practice-Based Learning and Improvement:
1. Involves investigation and evaluation of one’s own patient care, appraisal and assimilation of scientific evidence, and improvements in patient care.

Interpersonal and Communication Skills:
1. That result in effective information exchange and teaming with patients, their families and other health professionals.

Professionalism:
Orthopaedic Patient Care and Surgical Techniques continued

1. Commitment to carrying out professional responsibilities, adherence to ethical principles and sensitivity to a diverse population.

**Systems-Based Practice:**
1. Actions that demonstrate an awareness of and responsiveness to the larger context and system of health care and the ability to effectively call on system resources to provide care that is of optimal value.

**Learning Activities:**
1. Hospital rounds, patient assessment, surgical technique
The overall goal and objective of the rotation is to obtain an introduction to the field of Otolaryngology. During this rotation, the students will be responsible for the day-to-day management of patients referred to ENT clinic under the direct supervision of an otolaryngologist. The rotation will provide education in the care and management of ENT patients including diagnosis, appropriate courses of initial medical and surgical therapy and treatment of common disorders of the ear, nose, oral cavity and throat. Students will be expected to obtain a focused detailed history and perform an appropriate physical exam. The student will have the opportunity to observe possible procedural skills including shave biopsy, fine needle aspiration, suturing, biopsy, epistaxis management and office endoscopy.

**Patient Care:**
1. Demonstrate consistent skills in gathering accurate information from all sources, including medical interviews, medical records, and diagnostic/therapeutic procedures
2. Define components in the physical examination of patients in otolaryngology
3. Describe the management of common disorders of the ear, nose, oral cavity and throat
4. Define procedures performed in Otolaryngology such as shave biopsy, fine needle aspiration, office endoscopy

**Medical Knowledge:**
1. Assess patients and base treatment decision making according to type of otolaryngology disorder
2. Discuss the basic evaluation and management of patients referred for dizziness
3. Determine the evaluation and treatment for sleep apnea.
4. Discuss the assessment and management of common clinical conditions such as otorrhea/otalgia, sore throat, rhinitis/epistaxis, sinusitis
5. Describe the evaluation and treatment of neck and thyroid masses

**Practice-Based Learning and Improvement:**
1. Develop and maintain a willingness to learn from errors and use errors to improve the systems or processes of care
Otolaryngology/Head and Neck Clerkship continued

2. Demonstrate the ability to use information technology or other available methodologies to access and manage information, support patient care decisions and enhance both patient and physician education

Interpersonal and Communication Skills:
1. Provide effective and professional consultation to other physicians and health care professionals and maintain therapeutic and ethically sound professional relationships with patients, their families, and colleagues
2. Demonstrate proficiency in documenting patient's history, physical findings and plans of care in a concise note using the electronic health record
3. Demonstrate the ability to effectively communicate information to patients and family members concerning diagnosis and plans for care in a compassionate and appropriate manner

Professionalism:
1. Demonstrate respect, compassion, integrity, and altruism in relationships with patients, families and peers
2. Demonstrate respect for cultural differences, religious beliefs and other personal qualities of their patients, families and peers
3. Adhere to principles of confidentiality, academic and scientific integrity and informed consent

Systems-Based Practice:
1. Access and utilize the resources, providers and systems necessary to provide optimal care
2. Recognize the limitations and opportunities inherent in various practice types and delivery systems, and develop strategies to optimize care for the individual patient
3. Apply evidence-based, cost-conscious strategies to diagnosis and disease management
4. Advocate for patients and their families and help them navigate the medical system complexities

Learning Activities:
After orientation and instruction on head and neck examination, participant is expected to attend daily didactic sessions as well as clinic and operating room experiences with assigned otolaryngology attending’s.

Recommended Reading: 10 minute ENT consult by Djalilian, H. Other helpful textbooks: Essential Otolaryngology by Lee, KJ. These may be available for check out in the library. Didactic: "One Sheets," informative sheets on high yield topics and ENT rotation study guide

The medical student will be evaluated by his/her engagement in the entire learning opportunity including presentations, preparedness for clinic, and participation in educational conferences. There will be a formal feedback session at mid-term and at the end of the rotation. Feedback for continuous improvement will be provided throughout the rotation as well as immediate feedback on case presentations while in clinic as well as on with the completion of a brief written exam. A final evaluation will be provided at the completion of the rotation.
Electives
Surgery

Trauma and Orthopaedic Elective
Clerkship Director: Andrew Burgess, M.D., & Thomas Csencsitz, M.D.

MDE 8683 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Kenneth Koval

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

Contact Person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com

Maximum Enrollment: 2 each block

Students work closely with the attending physicians and residents of the Department of Orthopaedics at ORMC to gain exposure to various aspects of orthopaedics including trauma in one of the busiest level one trauma centers in the nation. Call is encouraged but not required.

Objectives:
1. Upon completion of the course, the student should be able to perform a complete pediatric orthopaedic examination.
2. Be able to treat simple fractures and be aware of the dangers and possible complications of the more complicated fractures.
3. He/She should be able to apply a cast and able to use traction.
**Electives**

**Surgery**

**Pediatric Neurosurgery Elective**

**Clerkship Director:** Michael Bellew, M.D.

**MDE 8491 2**

*Must be scheduled through VSAS*

Full-time (4 weeks)

(OH)

Grading Basis: Pass/Fail

Primary Faculty Supervisor: TBD

*Contact person: Sandra Ingram, GME Coordinator, (321) 841-3715; Sandra.Ingram@Orlandohealth.com*

Maximum Enrollment: 1 each block

**MDE 8491 7**

Full-time (2-4 weeks)

(NCH) Nemours Children’s Hospital

@ 8:30 am

Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Todd Maugans,

todd.maugans@nemours.org

*Contact Person: Tiffany Baulkman, (407) 394-0335; tiffany.Baulkman@nemours.org*

Maximum Enrollment: 1 per block

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Monday-Friday round with neurosurgeons, assist with surgery, Minimal call, one weekend per month.

**Objectives:**

1. Understand neurosurgical issues related to children.
2. Manage acute neurological problems.
Electives
Surgery

Pediatric Orthopedic Surgery Elective

MDE 8485  
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am  
(NCH) Nemours Children’s Hospital  
Full-time (2-4 weeks)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. John Lovejoy, III,  
john.lovejoy@nemours.org  
Contact Person: Tiffany Baulkman, (407) 567-3224;  
tiffany.Baulkman@nemours.org  
Maximum Enrollment: 1 per block

This rotation is intended for the student interested in orthopedic surgery, pediatrics, and pediatric or family practice sports medicine. This rotation will prove an opportunity to gain insight and experience with the diagnosis and management of orthopedic surgical disorders of childhood. It will provide an overview of pediatric orthopedic topics selected from topics required by national pediatric, family practice, and orthopedic residency programs. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as major operations. The student will be expected to present in the orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 week day and 1 weekend day per rotation for 2 week elective, and 2 week days and 1 weekend day per rotation for 4 week electives.

Objectives:
Patient Care:
1. Recognize common pediatric orthopedic surgical problems and emergencies in children.
3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient setting.
4. Assist in preparing patients for discharge.

Medical Knowledge:
1. Learn the fundamentals of basic sciences in pediatric orthopedic surgery.
2. Learn pediatric orthopedic common diagnoses and their management.
3. Read for the operative cases and be prepared for the OR.
4. Understand the pathology of pediatric orthopedic diseases.
5. Understand diagnostic tests commonly used pediatric orthopedic patients.
6. Practice evidence-based medicine by reviewing the literature.
Pediatric Orthopedic Surgery Elective continued

Practice Based Improvement:
1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.
2. Document patient care activities in the medical chart in a timely fashion.
3. Utilize electronic educational resources.

Interprofessional and Communication Skills:
1. Learn to communicate well with families and children.
2. Learn to interact with the surgical team.
3. Work well with other members of the health care team.

Professionalism:
3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.
4. Maintain accountability for personal actions and decisions.

Systems-Based Practice:
1. Only communicate appropriately with families under the direction of Faculty.
2. Communicate with the health care team members about the surgical patients.

Learning Activities
The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric orthopedic surgery clinic, and participate in surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.
Electives
Surgery

**Pediatric Surgery Elective**
Clerkship Director: Matthew Lube, M.D.

**MDE 8490 1**
Full-time (2-4 weeks) (FH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Christopher Anderson
Contact person: Mary Zamola
First Day: Report to (FH) Walt Disney Pavilion, 2501 N. Orange Ave., Suite 200, Orlando, FL @ 8:00 a.m.

**MDE 8490 7**
Full-time (4 weeks) (NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Tamarah Westmoreland
Contact person: Tiffany Baulkman
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

Understand basic diagnosis and therapeutic management of pediatric surgical disease. Will participate in all inpatient and outpatient activities, including weekend rounds.

**Objectives:**
1. Take accurate H&P, see patients in consultation, participate in all didactic discussions and learn basic surgical technique.
Electives
Surgery

**Pediatric Maxillofacial & Craniofacial Surgery Elective**
Clerkship Director: Colleen Moran-Bano, M.D.

**MDE 8591 2**
**Must be scheduled through VSAS**
**Full-time (4 weeks)**
**(OH) Arnold Palmer Pediatric Hospital**
**Grading Basis: Pass/Fail**
**Primary Faculty Supervisor: TBD**
**Contact Person: Kisha Green**
**(407) 303-7280; lakeata.green@flhosp.org**
**Maximum Enrollment: 2 each block**

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, FL @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation.

The primary objective of this rotation is to provide trainees with expanded clinical training in the areas of cleft, craniofacial, and pediatric oral and maxillofacial surgery. The day to day clinical practice of the program director is currently devoted to all phases of cleft lip and palate repair, craniofacial surgery for congenital malformations, skull base surgery, management of facial trauma, orthognathic surgery, pathology, and a variety of oral and maxillofacial procedures in medically compromised children.

**Objectives:**
1. The student will develop basic clinical skills in the evaluation, surgical repair and postoperative care of pediatric craniomaxillofacial surgery patients.
2. The student will gain exposure to the areas of primary cleft surgery and craniofacial procedures involving trans-cranial access.
3. The student will demonstrate ability to work as part of a team delivering treatment to pediatric patients with craniofacial disorders, including cleft lip and palate.
Electives
Surgery

Pathology and Laboratory Medicine
Clerkship Director: Richard Peppler, M.D.

MDE 8530 1
Full-time (4 weeks)
(FH) Florida Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisors: Dr. Jeff Chang
C.Jeff.Chang.md@flhosp.org
Contact Person: Dr. Jeff Chang
C.Jeff.Chang.md@flhosp.org
Maximum Enrollment: 2 each block (Except for June, July, August, & December)

First Day: Report to 601 E. Rollins St., Department of Laboratory Medicine @ 9:00 am.

MDE 8530 7
Full-time (4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Dennis Drehner, Dennis.drehner@nemours.org
Contact Person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block (June, August, October, January, and March only) *On hold until new faculty can be found.

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

MDE 8530 3
Full-time (4 weeks)
(VA) Lake Nona VA
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Fady Baddoura, 407-631-2578
Fady.Baddoura@va.gov
Contact Person: Vhaormedicaleducationcoordinators@va.gov
Maximum Enrollment: 1-2 per block

First Day: Report to Orlando VAMC Laboratory Room @ 8:00 am

Students will rotate through multiple areas of the clinical laboratory and anatomic pathology. They will shadow pathologists performing specific procedures including frozen sections, fine needle aspirations, and autopsies, and will have hands-on experience in processing surgical pathology specimens. They will participate in an active hematopathology service and learn about applications of molecular pathology for disease diagnosis. Exposure to clinical chemistry and blood banking will also be included.

Objectives:
Pathology and Laboratory Medicine Continued

1. Describe gross and microscopic pathology for multiple tissue types and correlate findings with clinical presentation.
2. Discuss the appropriate role of clinical laboratory testing for select disease processes.
3. Become familiar with a few select laboratory instruments and how they function, including interferences and limitations.
4. Gather appropriate laboratory and clinical information and interpret findings to select additional testing processes.
5. Communicate effectively with laboratory and other health care professionals.
Clinical Pathology Methods and Interpretation
Clerkship Director: Richard Peppler, M.D., Ph.D.

MDE 8532 2
Must be scheduled through VSAS
Full-time (4 weeks)
(OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact Person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 per block (June, September,
October, November, December, February, March &
April only)

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

The course is designed to acquaint the student with all aspects of a large hospital clinical laboratory.
The student will learn the capabilities of the laboratory by rotating through hematology, immunology,
chemistry and microbiology. Within each section, he/she will perform selected prototype procedures,
i.e., coagulation testing, blood smear differentials, chemical analysis, isolation of microorganisms, etc.

Objectives:
1. Upon completion of the course, the student will be able to abstract the clinical chart, perform an autopsy,
describe gross specimens, prepare sections, interpret microscopic findings and present a summary of
those cases for which he/she is responsible.
Electives
Surgery

Autopsy Pathology
Clerkship Director: Julia V. Hegert, M.D.

MDE 8535 2
Full-time (4 weeks) (OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Julia Hegert
Contact Person: Sandra Ingram, GME Coordinator,
(321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 per block (except July,
August, & December)

First Day: Report to OH GME, 86 W. Underwood St.,
1st floor lobby, Orlando, Fl @ 10:00 am where you will
meet with Sandra Ingram and Alexander Arismendi.
You should expect to receive a reminder email from
Mr. Arismendi before the start of the rotation

The course is designed to provide the student with the opportunity for in-depth study and performance of complete autopsies. Emphasis is placed on gross anatomy and gross and microscopic pathology as it is reflected in the living patient. The student will review the clinical charts and gather the adequate clinical information needed for the clinicopathological correlation of the disease process.

Objectives:
1. Upon complete the student will be able to abstract the clinical chart, perform an autopsy, describe gross specimens, prepare sections, interpret microscopic findings and present a summary of those cases for which he/she is responsible.
Surgical Pathology
Clerkship Director: Orlando Gonzalez, M.D.

MDE 8534 2
Full-time (4 weeks) (OH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Orlando Gonzalez
Contact Person: Sandra Ingram, GME Coordinator, (321) 841-3715; Sandra.Ingram@Orlandohealth.com
Maximum Enrollment: 1 each block (except July, August, & December)

First Day: Report to OH GME, 86 W. Underwood St., 1st floor lobby, Orlando, Fl @ 10:00 am where you will meet with Sandra Ingram and Alexander Arismendi. You should expect to receive a reminder email from Mr. Arismendi before the start of the rotation

The course is designed to provide the student with the opportunity for surgical specimen preparation and interpretation. Emphasis is placed on normal gross and histologic findings, gross and microscopic pathology and clinicopathologic correlation of the patient’s disease process.

Objectives:
1. At completion of the course, the student will be able to describe gross surgical specimens, prepare sections, interpret microscopic findings and make the necessary clinicopathological correlations.
Electives

Surgery

Advanced Clinical Anatomy
Clerkship Director: Andrew Payer, Ph.D.

MDE 8520 0
Full-time (2 or 4 weeks)
(UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Andrew Payer
Contact person: Andrew Payer,
andrew.payer@ucf.edu
Maximum Enrollment: 3 each block

First Day: Report to 411L UCF COM @ 9:00 a.m. At least one week prior to the elective, develop an outline of the goals and objectives that you would like to achieve and submit the outline to Dr. Payer for approval.

Primary goal of the elective is to provide medical students with the opportunity to study advanced clinical anatomy related to a medical specialty they anticipate applying for graduate medical education. The experience will involve cadaver dissections, literature survey and consulting with clinical specialists in the area they will be working on. The contact time is flexible and does not require any on call responsibility.

Objectives:
1. Demonstrate detailed anatomy, and anatomical variations in the area studied.
2. Describe the current knowledge of the anatomy in the area studied.
3. Relate and compare the anatomical knowledge with the current surgical approaches in the area studied.
4. Prepare and give a presentation to the supervising faculty member and assigned clinical faculty on the project outlined in the contract agreed upon at the beginning of the elective.
ELECTIVES

GENERAL CATEGORIES
Electives
General Miscellaneous Categories

**Independent Studies/Research at UCF COM**
Clerkship Director: Varies

MDR 8900 1
Full-time (4 weeks)
(Various Locations)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Varies
Contact person: Alisha Corsi, Coordinator
UCF COM Registrar's Office
Alisha.corsi@ucf.edu
Maximum Enrollment: Varies

The independent study/research elective permits fourth year medical students to pursue, under the sponsorship of UCF COM faculty members, areas of study/research that are not included among regular elective offerings. Arrangements for these electives are made between the student and the faculty member; and will require written administrative approval prior to registration.

**Directed Study/Independent Study at UCF COM**
Clerkship Director: Varies

MDE 8900 0
Full-time (4 weeks)
(Various Locations)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Varies
Contact person: Alisha Corsi, Coordinator
UCF COM Registrar's Office
Alisha.corsi@ucf.edu
Maximum Enrollment: Varies

Individual study by students under the direction of a faculty member and with the approval of the Assistant Dean of Medical Education and the Associate Dean for Students. Topics vary and will be selected on an individual basis. Arrangements for these electives are made between the student and the faculty member; and will require written administrative approval prior to registration.
The Independent Study/Research elective (away) permits 4th year medical students to pursue areas of research/away outside of UCF. Arrangements for these electives are made between the student and the away location supervising faculty member and must be supervised by a UCF COM faculty member. Students must obtain written administrative approval prior to registration.
Electives
General Miscellaneous Categories

**International Elective**
Clerkship Director: Dr. Judith Simms-Cendan

MDE 8072
Full-time (4 weeks)
(Various Locations)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Varies
Contact person: Dr. Judith Simms-Cendan
Director of International Programs @ UCF COM
(407) 266-1171; Judith.simms-cendan@ucf.edu
Maximum Enrollment: Varies


Students interested in completing an elective outside of the United States should contact the Director of International Health Programs. Additional information may be available from the Office of Student Affairs. The process for arranging for an international elective should begin early in the 3rd year. Students must obtain written administrative approval prior to registration. All students are required to meet with Dr. Judith Simms-Cendan prior to travel and register the travel with UCF at [www.med.ucf.edu/global-health](http://www.med.ucf.edu/global-health). Prior to traveling, students should review the information in the “Before You Travel” section. Completed forms must be submitted to Dr. Judith Simms-Cendan.
Narrative Medicine Elective

MDE 8048                     First Day: Report to Nemours Children’s Hospital lobby
Part-time (2 weeks)          @ 8:30 am for a tour and brief orientation.
(NCH) Nemours Children’s Hospital Medical Library
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Olivia DiLeonardo, MLS,
Olivia.dileonardo@nemours.org
Contact Person: Tiffany Baulkman, 407-567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

Student will be expected to participate in patient rounds; read/view and be prepared to discuss assigned readings (including short stories, essays, or poetry) and short films; actively participate in close reading exercises; write parallel chart entries (a parallel chart entry is a written, reflective account written by the student reflecting upon a patient encounter); elicit and transcribe patients illness narratives; respond to writing prompts developed by the preceptor; and lead a Narrative Medicine workshop for the M3 and M4 students assigned to NCH.

Goals of the Rotation:

• Student will learn about the history and development of Narrative Medicine and medical humanities. Student will be able to identify how humanities-related disciplines can “…enhance empathy, perspective-taking, openness to different viewpoints, and to prompt reflection on self, others, and the world.” (Kumagai, 2014)

• Student will recognize the ability of the arts to “make strange”: “…to trouble one’s assumptions, perspectives, and ways of being in order to view anew the self, others, and the world, (which) may serve a critical educational function in the development of reflective, humanistic clinicians.” (Kumagai, 2014)

• Students will be able to identify and describe the tenets of Narrative Medicine: attention, representation, affiliation (Charon, 20016)

• Student will learn to conduct close reading exercises using prose, poetry, essays, short films, photography, and works of art assigned by preceptor

• Student will participate in Pediatric Intensive Care (PICU), Neonatal Intensive Care (NICU), and Pediatric Hospitalist rounds with direct faculty preceptor supervision, and write parallel chart entries based upon patient encounters.

• Student will elicit a narrative from a patient, listen while the patients tells his/her story, and then transcribe the story, concentrating on capturing its essence. The student will then read his/her written version of the patient’s story back to the patient. This experience will be conducted under the direct supervision of the faculty preceptor. This exercise has been shown to develop the skills of narrative competence and attentive listening, and ultimately result in enhanced affiliation with the patient the patient care experience from the patient perspective. (Chretien et al, 2015; Das Gupta, 0007; Kumagai, 2008)
Narrative Medicine Elective continued

- Student will respond to writing prompts and actively participate in discussion of these written entries with preceptor.
- Student will choose a piece of short fiction (poetry or prose), short film, photographs, or work of art and lead a Narrative Medicine exercise for M3 and M4 students assigned to NCH, including a close reading, in-depth discussion, and response to a writing prompt under the direct supervision of the faculty preceptor.

Learning Activities
Student will participate in close reading and writing exercises daily, both scheduled with the preceptor as well as independently as directed by the preceptor. Student will participate in NICU, PICU, and Hospitalist wounds, elicit and transcribe patient illness narratives, and write reflectively about patient encounters. Student will actively participate in discussion of readings and his/her reflective writing. At the end of the course, student will lead a 1 and ½ hour Narrative Medicine workshop consisting of close reading exercises, discussion, and writing prompt. These workshops already occur as part of the UCF COM pediatric clerkship at Nemours Children’s Hospital and are currently led by the preceptor, Olivia DiLeonardo.
Electives
General Miscellaneous Categories

**Arts in Medicine Elective**

**MDE 8900**
Full time (4 weeks)
(UCF COM) UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Juan Cendan, juan.cendan@ucf.edu
Contact Person: Arvis Grier, 407-266-1105; arvis.grier@ucf.edu
Maximum Enrollment: 12 per block. Offered block 10 only.

Student will be required to develop their interpersonal relational skills through active engagement with the arts as determined by course supervisor.

**Core objectives:**
- Develop a greater understanding of the patient physician interaction by engaging the roles through improvisations, and
- Become familiar with the value of empathy in the physician patient interaction and consider arts as a way to explore and strengthen this core communication attribute.
Electives
General Miscellaneous Categories

MedU Course (CLIPP, SIMPLE, WISE, CORE, fmCASES)

MDE 8900
Part-time (2 weeks)
(UCF COM) UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Colleen Moran-Bano
Contact Person: Ken Staack, Coordinator, ken.staack@ucf.edu
Maximum Enrollment: Unlimited

First Day: Sign in to the course(s) for which you signed up and complete the cases by the end of the block.

This course will focus on one of the following MedU courses for a two-week elective: CLIPP (Pediatrics, CLIPP Culture in Health Care, CLIPP Medical Home), CORE Radiology, WISE-MD (surgery), fmCASES (family medicine) or SIMPLE (internal medicine). Students will utilize the online MedU virtual patient courses found at http://www.med-u.org. Each course contains 30+ interactive cases with links for additional learning. Many of the courses have formative multiple choice questions associated with each case.

Learning Activities
Student is responsible for completing the entire selected virtual patient course on line and completing any required assessment activities associated with the course.
Patient and Family Centered Care (PFCC) Elective

MDE 8124 7  
Part-time (2 weeks)  
(NCH) Nemours Childrens Hospital  
Grading Basis: Pass/Fail  
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am  
Primary Faculty Supervisor: Dr. Jim DeGrado, (407) 650-7423, James.Degrado@nemours.org  
Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org  
Maximum Enrollment: 1-2 each block

Patient and Family Centered Care (PFCC) philosophy and its practice demands that the patient and their families are engaged as active partners in their health care experience. The four main PFCC tenants call for care providers to engage families with respect, dignity, collaboration, open information sharing and meaningful participation. As such, students will be expected to actively participate in clinical care experiences ranging from participation in family centered patient rounds, walking with a patient through their care experience and actively participating in the Family Advisory Council meetings. The PFCC tenants above correlate directly with three of the AAMC’s Entrustable Professional Activities (EPA) including: gathering a history, collaborating as a member of an interprofessional team, identification of system failures and subsequent ways to improve quality and safety of care delivery at bedside.

Goals:

- Students will review the relevant literature on PFCC and will be able to understand and discuss the basic tenants of PFCC.
- Student will participate in team huddles to understand the interplay between the different departments that serve to support care in the hospital.
- Student will actively participate in health teams (Social Work, Child Life and Chaplains) to understand their unique contribution to care delivery.
- Student will actively participate in family centered rounds to gain a unique perspective of attending physician, interprofessional teams and family and patient as partners in care.
- Student will work with the course preceptor and other subject matter experts in the review of relevant literature which expands on the clinical experiences engaged in this course.
- Student will improve their skills in observation and assessment of patient histories by actively observing and documenting the patients experience as they move through the care stream at Nemours Children’s Hospital, Emergency Department and ambulatory clinics.
- Student will produce a summary paper which describes how their clinical elective experience and course literature reviewed impacted their personal care philosophy.
Electives
General Miscellaneous Categories

The History of Western Medicine

MDE 8051
Part-time (2 weeks)
(VA) (UCF COM) Orlando VA & UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Saad Shaikh, sshaikhmd@yahoo.com
Contact Person: Kate Knowles, (407) 266-1105; kate@ucf.edu; Dr. Shaikh, sshaikhmd@yahoo.com
Maximum Enrollment: 4 per block (Not available in all blocks)

First Day: Contact Dr. Shaikh at least one week before course begins. Contact Kate Knowles if there is no reply.

Students will be required to listen to an audio lecture series and complete assigned readings to be determined by course supervisor. Student will also be required to complete and examination based on the lecture series.

**Students are required to read the book Medical Firsts: From Hippocrates to the Human Genome by Robert E. Adler. It is available in the library for checkout and can also be purchased on Amazon.

**Students must also read two audio books: Doctors: The History of Scientific Medicine Revealed Through Biography; by Sherwin Nuland (Audio Series - 6 hours. A couple copies are available to check out from the library.) and The Making of Modern Medicine by the BBC (Audio Series - 7.25 hours).

Objectives:
a. Develop an understanding of medical history from Hippocratic medicine to the sequencing of the human genome.
b. Become familiar with medical history’s significant figures and the impact they had on the evolution of medicine.
c. Deepen understanding of illness and suffering through the perspective of medical history.
d. Recognize the interrelationship between medicine, science, and society through history.

Learning Activities
Completion of the following assignments:
1. Doctors: The History of Scientific Medicine Revealed Through Biography; available at amazon.com or audible.com
2. The Making of Modern Medicine by the BBC (Audio Series – 7.25 hours)
3. Textbook: Medical Firsts: From Hippocrates to the Human Genome by Robert Adler, MD
Electives
General Miscellaneous Categories

Medical Spanish

MDE 8040
Full-time (4 weeks)
(UCF COM)
Grading Basis: Pass/Fail
First Day: Access to Canopy Medical Spanish to be obtained from the COM library. Clinical skills sessions will be scheduled 3 times per year and students are expected to participate in at least one.
Primary Faculty Supervisor: Dr. Judith Simms-Cendan
Contact Person: Dr. Judith Simms-Cendan,
(407) 266-1057; Judith.simms-cendan@ucf.edu
Maximum Enrollment: Unlimited
**Students are required to attend an in-person practical session from 8:00 – 3:00 in the Clinical Skills Lab on the following dates, based on the block the student is registered in. Dates are not negotiable.
Blocks 1-6: 1/20/17
Block 7: 2/3/17
Blocks 8-11: 4/28/17

Goals of the Rotation:
1. Students will have improved knowledge of Spanish grammar and medical Spanish vocabulary.
2. Students will learn how Latino culture affects access and utilization of health care.
3. Students will become familiar with correct use of a medical interpreter.
4. Students will practice use of medical Spanish in the clinical skills center.

Objectives:
1. Improved knowledge of role of culture in care of patients will enhance patient care.
2. Assessing skills in language will define safety limits in relying on personal medical Spanish knowledge.
3. Enhanced knowledge of medical Spanish will improve communication ability.
4. Understanding correct use of an interpreter will improve professionalism.
5. Understanding the role of the interpreter and laws requiring access to interpreter will improve systems based practice knowledge.

Learning Activities
1. Students are expected to work independently on Canopy models.
2. They are expected to attend the session in the clinical skills center, and sessions on use of an interpreter and practical medical Spanish.
3. A literature review and brief essay (1-2 pages) on the role of culture in medical care is required.
Electives
General Miscellaneous Categories

Clinical Anatomy Teaching Elective
Clerkship Director: Andrew Payer, Ph.D.

MDE 8093 0
Full-time (2 or 4 weeks) (UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Andrew Payer
Contact person: Dr. Payer, Andrew.Payer@ucf.edu
Maximum Enrollment: 8 each block

First Day: Report to 411 L UCF COM @ 9:00 a.m.
Contact Dr. Payer one week prior to the start of the elective to get a list of the sessions you will be attending and preparing for the Structure and Function module.

Students will participate as teaching assistants in the Structure and Function Module for the four week period of their elective. They will need to prepare for the anatomical/physiological areas being covered in the respective component of the HB-2 module during their elective period. They will be required to be prepared to discuss with the M-1 students the relevant anatomy/physiology and medical imaging of the area being studied. They will attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions. They will also assist the M-1 students with their cadaver/autopsy report data and provide support for students having difficulties in the areas being studied.

Objectives:
1. Prepare pro-section anatomy dissections for demonstration to M-1 students.
2. Attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions.
3. Demonstrate knowledge of the anatomy/physiology/histology and medical imaging of the areas being studied in the elective
4. Assist M-1 students having academic difficulties with anatomy
5. Assist M-1 students' knowledge of clinical anatomy
Electives
General Miscellaneous Categories

Not Currently Available: Advanced Physical Diagnosis
Clerkship Director: Sergio Salazar, M.D.

MDE 8208 0
2 weeks (UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Sergio Salazar
Contact person: Dr. Sergio Salazar
Sergio.Salazar@ucf.edu
Maximum Enrollment: Varies

First Day: Report to 411 H UCF COM @ 10:00 a.m.

Improve basic physical exam and learn advanced techniques to improve patient care and assessment. Students will be taken on “rounds” with bedside teaching. No call to be taken.

Objectives:
1. Demonstrate the ability to perform an accurate history and physical exam and use the information fathered to determine an appropriate differential diagnosis.
2. Formulate accurate hypothesis.
EXTRAMURAL CLERKSHIPS
Extramural Clerkship
(VSAS and non-VSAS)
Clerkship Director: Varies

MDX 8011
Full-time (4 weeks)
Grading Basis: Pass/Fail
(Various Locations)
Primary Faculty Supervisor: Dr. Marcy Verduin,
Associate Dean for Students: Dr. Marcy Verduin
Assistant Dean for Medical Education: Dr. Martin Klepheke

Contact person: Alisha Corsi, Coordinator
COM Registrar’s Office
Alisha.corsi@ucf.edu

Maximum Enrollment: Varies

Extramural electives offer students the opportunity to gain experience at LCME accredited medical schools and affiliated facilities. Arrangements for these electives are made between the student and the visiting institution. Students must obtain written administrative approval prior to registration.

Objectives:
1. Have the student assume greater levels of responsibilities for the patient.
2. Expand the student’s skills and medical knowledge.
3. Prepare the student for their residency.
COURSES AVAILABLE AS 2 WEEK ELECTIVES
ELECTIVES
Internal Medicine

Emergency Ultrasound Elective

MDE 8773                     First Day: Report to Florida Hospital East @ 8:00 am
Part-time (2 weeks)
(FH) Florida Hospital East Orlando
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Alfredo Tirado-Gonzalez
Contact Person: Katherine Bradford, (407) 303-6413;
Katherine.bradford@flhosp.org
Maximum Enrollment: 1 per block

The primary goal for the emergency ultrasound point of care elective is to provide the knowledge, skill, and experience to perform focused bedside ultrasound (US) examinations as a means to provide immediate information and answer specific questions about patients’ physical conditions and care.

Objectives:
Patient Care: Gather accurate, essential information in a timely manner from all sources, including medical interviews, physical examinations, medical records, and diagnostic/therapeutic procedures. Integrate diagnostic information and generate an appropriate differential diagnosis.

Medical Knowledge: Understand the basic principles of medical ultrasonography with the potential risks and benefits to the patient. Demonstrate the ability to appropriately use the ultrasound machine to obtain basic images. Demonstrate the ability to identify basic ultrasound anatomy. Understand the appropriate use of ultrasound in the diagnosis of common medical problems. Demonstrates adequate foundation of knowledge in US applications: FAST, Aorta, Renal, First Trimester Bleeding, Echo, Gallbladder, and Procedural ultrasound.

Practice Based Improvement: Locate, appraise, and assimilate evidence from scientific studies related to the health problems of their patients. Use information technology to manage information, access online medical information, and support their own education.

Interprofessional and Communication Skills: Demonstrate the ability to respectfully, effectively, and efficiently develop a therapeutic relationship with patients and their families. Demonstrate effective participation in and leadership of the health care team.
Professionalism: Arrive on time and prepared to work. Demonstrate appropriate use of symptomatic care. Treat patients/family/staff/paraprofessional personnel with respect. Protect staff/patient’s interests/confidentiality. Accept responsibility/accountability for patient care activities.

ELECTIVES
Internal Medicine

Nephrology, Inpatient/Outpatient
Clerkship Director: Sergio Salazar, M.D.

MDE 8350
Part-time (2 weeks)
Grading Basis: Pass/Fail
(FLG) Flagler Hospital
*This site is more than 50 miles from the COM
Primary Faculty Supervisors: Dr. Amir Malik
Contact person: Brittany Roberts, (904) 819-4793;
brittany.roberts@flaglerhospital.com
Maximum Enrollment: 1-2 each block

First Day: Report to Flagler Hospital, St. Augustine, Fl,
6th floor Medical Library @ 8:00 am

This course provides an in-depth exposure to the diagnosis and treatment of renal disease in the hospital and outpatient setting through bedside teaching, didactic lectures, conferences and Grand Rounds. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are used in the treatment of patients with renal disease.

Objectives:
1. After completion of the course, the student will be familiar with the various diagnostic and therapeutic modalities that are in the treatment of patients with renal disease.
ELECTIVES
Internal Medicine

Dermatology Clinic Elective

MDE 8251 9
Variable (2-4 weeks)  First Day: Report to 411 Maitland Ave., Suite 1001, Altamonte Springs, FL @ 8:00 a.m.
Grading Basis: Pass/Fail
(PO) Altamonte Dermatology
Primary Faculty Supervisor: Dr. Jerri Johnson
Jjohnson7191@aol.com
Contact person: Amy Keeney
(407) 260-2606; amy@jerrijohnsonmd.com
Maximum Enrollment: By permission only

This elective will provide exposure to a general dermatology practice. The student will be seeing patients with the dermatologist and participating in surgical procedures in the office.

Objectives:
1. Become familiar with common dermatologic conditions.
2. Be able to treat common dermatologic conditions.
3. Demonstrate proficiency with basic surgical procedures.
ELECTIVES

Internal Medicine

**Dermatology Elective**
Clerkship Director: James A. Solomon, M.D.

MDE 8250 9

The student is exposed to one of the largest group dermatology practices in the country. The practice has over 50 office sites in 50 cities in Florida. Opportunities to work in several offices will expose the student to almost all aspects of diagnosis and treatment within general dermatology (pediatric to geriatric), surgical dermatology (routine, Moh’s, laser), and cosmetic dermatology (lasers, fillers, cosmetic surgery, hair transplantation, aesthetic services), and dermatopathology. The student, with the help of the office manager, will arrange weekly rotations through several offices to provide the broadest experience possible. No night call or weekends required.
Objectives:
1. The student will gain his/her dermatology basic clinical knowledge and ability to communicate, discuss cases and interact with staff, patient in an intelligent and thoughtful way, and responds to clinical questions appropriately as knowledge of the field increase.
2. The student learns about skin and sun safety as well as the importance of evaluating the whole patient and discussing risk-taking behaviors.
3. The student learns to assist in basic dermatologic surgery procedures as well as gains understanding of more complex surgical procedures (Moh’s surgery and cosmetic closures), and laser surgery.
4. The student is exposed to the broad spectrum of dermatology specific medications and completes the rotation with a basic dermatology treatment armamentarium.

The student gains an understanding in which cosmetic dermatology is used as a methodology to enhance the appearance of the skin by repairing damage done through sun, trauma and/or skin disease.

ELECTIVES
Internal Medicine

Not Currently Available: Associates in Dermatology - Dermatology Elective
Clerkship Director: Michael Steppie, M.D.

MDE 8250 9
Variable (2-4 weeks)
(PO) Associates in Dermatology
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Michael Steppie
msteppie@gmail.com
Contact person: Jaime Handley
(407) 846-7546 ext. 3221; Jaime@dermorlando.com
Maximum Enrollment: 1 each block

First Day: Contact Jaime Handley 2 weeks before the start of the rotation. Report to 9430 Turkey Lake Road, Suite 210, Orlando, FL @ 10:00 a.m.

Associates in Dermatology Clerkship director and his staff will introduce students to dermatology and dermatologic surgery. They will be seeing patients with a vast array of diseases of the skin, hair, and nails, as well as surgical excisions of melanoma, skin tumors, cancers, benign moles, and skin lesions. The students will also be familiarized with Photodynamic Therapic (PDT) for psoriasis and eczema, Electrocautery Treatments and Blue-Light to treat pre-cancerous lesions, acne, and acne scarring. They will also be given an overview of a number of cosmetic dermatology services such as Botox, Laser Facial Rejuvenation, and Intense Pulsed Light.

Objectives:
The students will need to be able to perform patient assessment, while taking a dermatologic patient history, physical exam of the skin, differential diagnosis evaluation, and treatment considerations.

**ELECTIVES**

Internal Medicine

**Wound Care**

Clerkship Director: Robert Phillips, DPM

MDE 8345 3

Full-time (2-4 weeks)  
(VA) VA Lake Nona  
Grading Basis: Pass/Fail  
Primary Faculty Supervisors: Robert Phillips, DPM; Lori Kruger, GNP  
Contact person: (407) 432-8468  
VHAORLMedicalEducationCoordinators@va.gov

First Day: Report to Lake Nona VA, Module 3F @ 7:00 a.m. Please review the First Day Reporting Instructions document found on the M4 GPS. Students should email Medical Education Coordinators to get computer access codes.

Maximum Enrollment: 1 each block

The student will be exposed to patients with all types of wounds. Most of the wounds will be located on the lower extremity. Diabetic ulcers will be heavily emphasized, though all types of wounds will be encountered, including decubitus ulcers, venous stasis ulcers, arteriosclerosis ulcers, surgical wounds and complications. In addition, the student will be exposed to the patient at high risk for developing ulcers as well as those who have finished healing a wound and are now being monitored for reoccurrence.

**Objectives:**

1. Demonstrate the ability to assess and care for adult patients in the outpatient setting, initially and in an ongoing fashion.
2. Demonstrate appropriate communication skills, with colleagues (oral and written presentations), patients and families.
3. Demonstrate professional behavior at all times.
ELECTIVES
Internal Medicine

Advanced ECG Self-Study Program

MDE 8227   First Day:   UCF COM room 406P at 8:00 am.
Part-time (2 weeks)
(UCF COM) UCF COM and UCF Health Clinic
Grading Basis:  Pass/Fail
Primary Faculty Supervisor: Dr. Bernard Gros
Contact Person: Dr. Bernard Gros, 407-266-1180;
bernard.gros@ucf.edu
Maximum Enrollment: 2 per block (November through April only)
Note: This course requires some in person sessions with the instructor.

The primary goal of this rotation will be mastering the art and practice of clinical ECG interpretation. This will focus on the following areas: 1) The basics, 2) Myocardial abnormalities, 3) Conduction abnormalities, 4) Arrhythmias, 5) Narrow & wide complex tachycardias, 6) Paced rhythms, channelopathies and electrolyte disturbances.

Upon completion of this 2 week session, the students will have reviewed 400-600 case studies. This will provide them with a broad and in-depth understanding of ECG analysis and diagnosis.

Learning Activities:
1. Self study case reviews by student (Using Podrid’s ECG Series)
2. Additional literature review ECG topics.
3. Weekly presentations to faculty on assigned ECG/Cardiovascular topics.
4. Weekly conference/faculty discussions to assist in instruction and understanding of ECG interpretation.

Required Texts:
1) Podrid’s Real World ECG - Volume 1-4 (Volume 5-6 once released) - student will need to purchase to obtain additional access to online case files
2) Marriott’s Practical Electrocardiography 12th edition
Electives
Ophthalmology/Pediatrics

Clinical Ophthalmology Elective
Clerkship Director: Saad Shaikh, M.D.

MDE 8550 3
Variable Duration (2-4 weeks)  First Day: Report to Lake Nona Eye Clinic Room 2B @ 8:00 a.m. Report to the Retina Resident/Dr. Shaikh.
(VA) VA Lake Nona  Please review the First Day Reporting Instructions and Grade Basis: Pass/Fail  Course documents found on the M4 GPS site.
Primary Faculty Supervisor: Dr. Saad Shaikh
Contact person: Dr. Saad Shaikh
(407) 266-1100; sshaikhmd@cfl.rr.com; Kate Knowles, kate@ucf.edu; vhaorlmedicaleducationcoordinators@va.gov
Maximum Enrollment: 1 each block (Not available in all blocks)

A 1-4 week rotation will be developed by the elective faculty and the student based on individual student goals. Core competencies to be achieved during the elective include general eye examination and ophthalmoscopic examination skills and exposure to ophthalmic surgery. For more advanced students or those available for longer time commitments, students will assist in ophthalmic surgical procedures, workup and presentation of ophthalmic cases to faculty and have the opportunity to present and or write a case report for publication. There are no weekend clinics outside of call. Call will be limited to accompanying staff to after-hours emergency evaluations (rare).

Objectives:
1. Achieve proficiency in the evaluation of patients with ocular disorders.
2. Establish familiarity within common eye conditions and their treatment.
3. Recognize ocular manifestations of systemic disease.
4. Become familiar with the clinical procedure ophthalmology.
Electives
Ophthalmology/Pediatrics

Ophthalmology Research Elective
Clerkship Director: Michael Tolentino, M.D.

MDR 8550 9
Full-time (2-4 weeks)  
First Day: Report to Center for Retina & Macular Disease, 250 Ave. K, SW, Suite 200 Winter Haven, FL @ 9:00 a.m.

(PO) Center for Retina & Macular Disease
Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Michael Tolentino
Contact person: Dawn Sutherland, (863) 297-5400 x2032; dasu@crmd.net

Maximum Enrollment: 1 each block

Students will have the opportunity to observe the implementation of clinical trials at an ophthalmology subspecialty (retina) clinic. They will gain exposure to the various phases of clinical trials and how basic science research is applied in clinical practice. Students will observe clinical trial data collection and treatment administration. Students will participate in the examination of retinal patients and be introduced to advances in diagnostic and therapeutic technology. Students will also have the opportunity to design a retrospective clinical research project that could lead to publication. There will be no weekend or on-call activities. This elective will benefit those seeking future careers in ophthalmology or in other clinical subspecialties where an understanding of clinical research is important.

Objectives:
1. Achieve familiarity with clinical trials and how clinical trials are designed.
2. Understand the role the FDA plays in approving therapeutics and devices.
3. Develop additional experience with the funduscopic examination.
4. Recognize retinal manifestations of systemic disease.
5. Become familiar with the workings of a modern ophthalmology subspecialty (retina) practice.
Electives
Ophthalmology/Pediatrics

Pediatric Nephrology Elective
Clerkship Director: Jorge Ramirez, M.D.

MDE 8445 7
First Day: Report to Nemours Children’s Hospital lobby
Full-time (2-4 weeks)
NCH) Nemours Children’s Hospital & Nemours
Grading Basis: Pass/Fail
Associated Clinics
Primary Faculty Supervisor: Dr. Robert Mathias
Contact person: Tiffany Baulkman, (407) 567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

This two or four-week elective rotation, open to fourth year medical students, will provide a broad
learning experience in pediatric Nephrology. Learning will occur through direct provision of care to
children requiring Nephrology consultation. Learning will also occur through formal and informal
didactic presentations, bedside teaching, and through directed and undirected reading. The medical
student will serve as an integral part of the care team, providing direct patient care as appropriate under
the supervision of the Nephrology attending.

The overall goal of the Nephrology elective is to acquire an in-depth knowledge and experience with
commonly encountered renal problems of infants and children. This elective also includes adequate
time to pursue readings that focus on pathophysiology of disease processes. With this information as a
background, the Medical student will acquire a good understanding of the management and long-term
outcomes of common renal disorders in children.

During the rotation, the medical student will, under the guidance of a supervising Nephrology physician,
evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or
suspected Nephrologic diseases, including, but not limited to, those with hematuria, proteinuria,
hypertension, urinary tract infections, kidney stones, nephrotic syndrome, acute kidney injury, chronic
kidney disorder, and kidney transplantation.
Electives
Ophthalmology/Pediatrics

Pediatric Cardiology
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8420 7
Full-time (2-4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Eva Nunlist
Contact person: Tiffany Baulkman, (407) 567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby
@ 8:30 am

The overall goal of this rotation is to provide a comprehensive program toward the recognition and management of major/common pediatric cardiology problems. Emphasis will be on the pathogenesis, pathophysiology, diagnosis and management principles of congenital and acquired heart disease in the young. Additional time will be spent on the understanding, recognition and management of pediatric cardiac rhythm disturbances and general pediatric cardiology issues.

Objectives:
1. Elicit a thorough and accurate history and performing comprehensive cardiovascular examination of neonates, infants, children and adolescents.
2. Detect significant heart disease through history and physical exam.
Electives

Ophthalmology/Pediatrics

**Pediatric Pulmonary Elective**
Clerkship Director: Carlos Sabogal, M.D.

MDE 8425 7
Full-time (2-4 weeks)
(NCH) Nemours Children's Hospital
Grading Basis: Pass/Fail
First Day: Report to Nemours Children's Hospital Lobby @ 8:30 am
Primary Faculty Supervisor: Dr. Jason Lang
(407) 567-3868, Jason.lang@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

This clinical course will be based on basic respiratory physiology and will include a variety of clinical pulmonology experiences such as infectious disease of the lungs, hypersensitivity lung disease, cystic fibrosis, asthma, pulmonary reactions to chemical injury and trauma, radiologic evaluation of lung disease, pulmonary pathology, flexible bronchoscopy, pulmonary function testing, exercise physiology, sleep disordered breathing, apnea of prematurity/infancy, congenital disorders of the respiratory tract, home ventilation and chronic lung disease of infancy. Patient care and consultation experience will be gained on the inpatient services, intensive care units, and in the pediatric pulmonology clinic. In addition, the student will spend time in the pediatric pulmonary function and sleep laboratories.

**Objectives:**
1. Describe normal patterns of breathing in infants and children.
2. Demonstrate proficiency in the examination of the respiratory system.
3. Diagnose and treat asthma according to national guidelines.
4. Demonstrate proficiency in the management of children with cystic fibrosis.
5. Describe strategies for managing the complexities of the treatment of BPD.
6. Interpret basic pulmonary function testing in children.
Electives
Ophthalmology/Pediatrics

Pediatric Dermatology
Clerkship Director: Tace Rico, M.D.

MDE 8500 1
Full-time (2-4 weeks)  First Day: Report to 615 E. Princeton St., Suite 416,
(FH) Orlando, FL @ 8:30 a.m.
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Tace Rico
Contact person: Sebi Colon, Office Manager
(407) 303-1509; eusebia.colon@flhospital.org
Maximum Enrollment: 1 each block (None in June,
July, August, or September)

Exposure to many common pediatric skin diseases, some more rare congenital dermatoses. Importance
of the derm exam and the correct use of morphologic terminology and examination technique.
Understanding of most common dermatoses. Most time in a pediatric outpatient clinic observing
procedures including biopsies, lasers and minor surgeries. Opportunity to evaluate inpatients on the
consult service with acute dermatologic issues. Journal discussions and kodachromes will occur daily.

Objectives:
1. Become proficient in describing skin lesions
2. Basic understanding of acne and treatment regimens.
3. Recognition of atopic dermatitis, generate treatment plan.
5. Differentiation between infantile hemangiomas and vascular malformations.
6. Familiarity with nevi and congenital lesions.
7. Familiarity with some more common genodermatoses with appropriate workup.
Electives
Ophthalmology/Pediatrics

**Pediatric Infectious Diseases**
Clerkship Director: Colleen Moran-Bano, M.D.

**MDE 8454 7**

Full-time (2-4 weeks)  
(NCH)

Grading Basis: Pass/Fail

Primary Faculty Supervisor: Dr. Kenneth Alexander
Kenneth.alexander@nemours.org; (407) 567-6724

Contact person: Tiffany Baulkman,
tiffany.Baulkman@nemours.org

Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby
@ 8:30 am

This two or four week elective rotation, open to fourth year medical students, will provide a broad learning experience in pediatric infectious diseases. Learning will occur through direct provision of care to children requiring infectious diseases consultation at the Nemours Children’s Hospital and at Nemours-associated clinics. Learning will also occur through formal and informal didactic presentations, bedside teaching, and through directed and undirected reading. The medical student will serve as an integral part of the care team, providing direct patient care under the supervision of the infectious diseases attending.

This rotation will emphasize diagnostic assessment through a detailed history, a careful physical examination, and appropriate use of laboratory studies. The rotation also emphasizes appropriate use of antimicrobial therapy, the understanding of post pathogen relationships, and the importance of social, emotional, physical, and medical legal issues that impact children with infectious diseases.

During the rotation, the medical student will, under the guidance of a supervising infectious disease physician, evaluate, examine, discuss, treat, and follow hospital inpatients and outpatients with proven or suspected infectious diseases, including, but not limited to, those with nonnosocomial infections, postoperative infections, trauma-related infections, septicemia, pneumonia, peritonitis, and infections in immunocompromised hosts, including patients with primary immunodeficiency syndromes, patients undergoing immunosuppressive therapy, and children and adolescents with HIV infection.

**Objectives:**
Medical students will demonstrate compassionate scientifically guided and effective care for the promotion of health, prevention of illness, and treatment of disease. Medical students must:

1. Demonstrate the ability to acquire and evaluate new information needed for the care of each patient.
2. Demonstrate the ability to perform meticulous physical examination of children across the age spectrum.
3. Demonstrate the ability to create comprehensive differential diagnoses that include both infectious and noninfectious etiologies for the patient’s illness.
Pediatric Infectious Diseases continued

4. Analyze accurately and apply available information to make appropriate diagnostic decisions and therapeutic plans.
5. Demonstrate the ability to create and evaluate patient management plans for children with infectious diseases.

Medical Knowledge
Medical students must demonstrate proficiency and obtaining new knowledge through didactic lectures discussions on rounds, a signed and unguided readings, use of the internet, and consultation with colleagues. Students will apply an open-minded, analytical approach to acquire a new knowledge, and will assess their knowledge critically through continued use of the medical and scientific literature. Students will also apply new knowledge to clinical problem solving and to clinical decision making.

1. Describe the pathogenesis, clinical presentation diagnostic approaches to infections encountered in children in the inpatient and outpatient settings.
2. Describe the appropriate use of diagnostic procedures and laboratory tests to evaluate and monitor children with suspected or proven infections.
3. Demonstrate competence for the selection of appropriate antibiotics, and demonstrate the ability to provide appropriate recommendations for antimicrobial use and monitoring.
4. Demonstrate knowledge and skill in the critical assessment of complex clinical infectious diseases problems
5. Demonstrate knowledge of the appropriate, evidence-based management of inpatient and outpatient children with infectious diseases.
6. Demonstrate knowledge of approaches for diagnosis and management of proven and suspected infections in immunocompromised children.
7. Demonstrate an understanding of the rationale for and nature of infection control policies.
8. Demonstrate understanding of the variation in epidemiology of infectious diseases among different age groups, states 4 immune function, socio-demographic groups, and geographic locations.

Practice Based Improvement:
Medical students are expected to evaluate and critically assess patient care practices, as well as appraise and disseminate clinical information. Students will also demonstrate an ability to learn from their own and others’ mistakes
• Demonstrate proficiency in the use of the pediatric infectious diseases literature
• Apply up-to-date evidence-based information to address clinical questions and to guide medical therapy
• Evaluate their own performance, identifying gaps in their knowledge base, and target their self directed learning to improve performance and address knowledge gaps.
• Provide, request, and accept and incorporate feedback from all colleagues and from patients and their families
• Work with all members of the health care team to enhance team and knowledge and esprit de corps.

Interprofessional and Communication Skills:
Medical students are expected to demonstrate consistent interpersonal and communication skills that result in effective information exchange and support of families and colleagues.
• Demonstrate effective communication with the entire health care team
• Demonstrate effective communication with patients and their families
Pediatric Infectious Diseases continued

- Demonstrate the ability to communicate crucial and appropriate information through written medical records and patient case presentations
- Demonstrate appropriate use of cultural and language interpreters as needed
- Demonstrate the ability to counsel and educate patients and their families in a comprehensive, supportive, and culturally-appropriate manner

Professionalism: Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the healthcare system.
- Always act in the best interest of the patient
- Demonstrate a caring and respectful demeanor when interacting with patients and their families
- Maintain patient and family confidentiality
- Demonstrate sensitivity to ethical principles, culture, age, gender, religious belief, sexual orientation, and a disability
- Be punctual, reliable, and conscientious

Systems Based Practice: Medical students are expected to practice consistently high-quality healthcare that is cost effective and beneficial to the patient within the context of the healthcare system.
- Advocate for patients and their families as they navigate the complexities of the healthcare system
- Describe a role of the subspecialist in consultation
- Participate in multidisciplinary patient care activities
- Participate actively and regularly in educational and case management conferences
- Demonstrate knowledge of restrictions in public and private insurance and the ramifications of these restrictions in the care of patients
Electives
Ophthalmology/Pediatrics

**Pediatric Endocrinology Elective**
Clerkship Director: Colleen Moran-Bano, M.D.

**MDE 8430 7**
Full-time (2-4 weeks)
(NCH) Nemours Childrens Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Michelle Rivera-Vega
(407) 567-3855, michelle.rivera-vega@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby at 8:30 am

Learn the basics of Pediatric Endocrinology. Provide in depth exposure and experience in the diagnosis and treatment of endocrine disorders with a focus on the multidisciplinary care of the diabetic child. Also growth disorders, disorders of puberty, and obesity and its complications.

**Objectives:**
1. Diagnosis and treatment of Type 1 & 2 diabetes.
4. Recognition of obesity and complications.
The Pediatric Gastroenterology elective is designed to provide medical students with an opportunity for concentrated experience with a broad range of outpatient and inpatient care scenarios. Medical students will consolidate and enhance skills necessary for the prevention, primary care, and collaborative management of various digestive problems affecting children. These goals will be achieved through attaining key competencies in patient care, medical knowledge, practice-based learning and improvement, interpersonal communication skills, professionalism and system-based practice. The elective is available as either a two or four week rotation.

Objectives:

**Patient Care:** Medical students will demonstrate compassionate scientifically guided and effective care for the promotion of health, prevention of illness, and treatment of disease. Medical students must:

- Gather accurate and appropriate information for each patient encounter in which they participate via medical interviews, physical exam, chart review and discussion with other members of the medical care team.
- Develop an appropriate and thorough differential diagnosis for each patient seen.
- Analyze and apply available information to make appropriate diagnostic decisions and therapeutic interventions that are based on clinical judgment, scientific evidence, and patient preference.
- Develop, negotiate and implement appropriate management plans for children and adolescents with gastrointestinal disorders.
- Develop appropriate follow-up plans for children and adolescents with gastrointestinal disorders.

**Medical Knowledge:** Medical students must demonstrate proficiency and obtaining new knowledge through didactic lectures discussions on rounds, assigned and guided readings, use of the internet, and consultation with colleagues. Students will apply an open-minded, analytical approach to acquire new knowledge, and will assess their knowledge critically through continued use of the medical and scientific literature. Students will apply new knowledge to clinical problem solving and to clinical decision making.
Pediatric Gastroenterology Elective continued

Practice Based Improvement: Medical students are expected to evaluate and critically assess patient care practices, as well as appraise and dissipilate clinical information. Students will also demonstrate an ability to learn from their own and others’ mistakes.

Interprofessional and Communication Skills: Medical students are expected to demonstrate consistent interpersonal and communication skills that result in effective information exchange and support of families and colleagues.

Professionalism: Medical students are expected to practice consistently high quality healthcare that is cost effective and beneficial to the patient within the context of the healthcare system.
Electives
Ophthalmology/Pediatrics

Pediatric Otolaryngology Elective
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8592
Full-time (2-4 weeks)  First Day: Report to Nemours Children’s Hospital lobby
(NCH) Nemours Childrens Hospital  @ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Cynthia Chen
(407) 414-1348, Cynthia.chen@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224; tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

This rotation is intended for students interested in but not excluding Pediatric Otolaryngology, Pediatrics, Family Medicine, Emergency Medicine, Critical Care, Allergy subspecialties, and Pulmonary subspecialties. Children with common chronic conditions such as sleep disordered breathing, chronic sinusitis, otitis media, hearing loss, etc frequently require Otolaryngological care. With this rotation, we hope to provide insight into how Otolaryngologists work with primary care physicians to evaluate, diagnose, determine surgical candidacy, provide surgical risk and complication counseling, and treat these common conditions. Students will also have opportunity to see complex Otolaryngology care involving Neuro-otologic procedures such as cochlear implantation, airways procedures, and head and neck surgeries.

Otolaryngologists are also frequently involved in the care of children with complex medical conditions, so students will be exposed to children with Downs syndrome and other craniofacial syndromes and abnormalities and participate in complex medical decision making.

Students will be expected to become familiar with guidelines for medical treatment and surgical candidacy as set forth by national societies such as the AAP and AAO-HNS.

The student will be expected to attend educational conferences such as surgical grand rounds, journal clubs, morbidity and mortality conference, and aerodigestive multidisciplinary conference. The student will be expected to give an 8-10 minute case and topic presentation at least once during the rotation. We hope that by the end of the rotation, the student will be come comfortable and competent with basic clinical skills specific to ENT, such as using otologic equipment with the microscope, performing nasal and laryngeal endoscopy, and understanding wound care.
Electives
Psychiatry/Neurology

**Neurodegenerative Disease: Research & Clinical Care**

Clerkship Director: Michael Bellew, M.D.

MDR 8802 9
Full-time (2-4 weeks)  
(PO) Compass Research  
100 W. Gore St., Orlando, FL  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Ira Goodman  
jigmd@aol.com

Contact person: Kimberly Murphy, Office Manager,  
(407) 210-1320; kmurphy@compass-clinic.com

Maximum Enrollment: 1 each block by permission

First Day: Report to Compass Research, 100 W. Gore St., Orlando, FL @ 9:00 a.m.

The focus of the elective is to provide students an intensive exposure to evaluation and management of patients with neurodegenerative disease, with a focus on Alzheimer’s dementia and Parkinson’s disease. The clerkship director (Dr. Riggs) has fellowship-level training in these areas, and the primary faculty (Dr. Goodman) has over 20 years’ experience in care and evaluation of these patients. The elective will take place in the context of patients referred for possible participation in clinical trials, and exposure to clinical trial methodology is an additional focus. No on-call duties, no weekend activity.

**Objectives:**

1. Demonstrate the ability to assess patients with neurodegenerative disease; generate a thorough differential diagnosis for such patients; plan initial diagnostic and treatment interventions; discuss eligibility for clinical trials.
Electives
Radiology/Anesthesiology/Emergency Medicine

Radiation Oncology Elective

MDE 8780  First Day: Report to Health First Cancer Services (HFCS)
Part-time (2 weeks)  1130 S. Hickory St., Ste A, in Melbourne, Fl @ 8:00 am
(HF) Health First Cancer Services
*This site is more than 50 miles from the COM
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Nanialei Golden
Contact Person: Dr. Nanialei Golden,
(321) 409-1956 ; nanialei.golden@mima.com
Maximum Enrollment: 2 per block

Students will participate in all aspects of Radiation Oncology patient care from initial consultation and work up to simulation/treatment planning, radiation physics/dosimetry, and daily treatment. Students will gain an understanding of general cancer management from common to rare cancers. Depending on the types of cancer under treatment during the rotation, there may be opportunities to observe brachytherapy in the operating room or other special procedures. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds.

Objectives:
1. Understand the role radiation plays in cancer management.
2. Expand clinical knowledge of cancer and its various treatment options.
3. Understand common radiation side effects, specific causes and their management. Dispel radiation myths.
4. Enhance bedside manner, potentially improve conversations skills in patient communication in difficult circumstances.
5. Cancer management requires the interaction of multiple specialties including Medical Oncology, Surgical Oncology, Gyn Onc, Radiology and Pathology. Students will be part of this interaction.
6. Understand how cancer can impact multiple body systems and how cancer management impacts other synchronous illnesses.

Learning Activities:
This rotation is entirely outpatient. Students will attend weekly Multidisciplinary Tumor Board and weekly Radiation Oncology Chart Rounds. Students will gain a general understanding of radiographic anatomy as it pertains to contouring cancer volumes, normal organ volumes and organs at risk of potential radiation damage. Literature review will be focused around patient population currently under treatment including the most common cancers (breast, prostate, lung).
Electives
Radiology/Anesthesiology/Emergency Medicine

Diagnostic Radiology Clerkship
Clerkship Director: Laura Bancroft, M.D.

MDE 8763 1
Variable (2-4 weeks)  First Day: Contact Ms. Horvath two weeks before that
(FH) Radiology Department  start of rotation to confirm. Radiology Dept., 601 Rollins
Grading Basis: Pass/Fail  Ave., Orlando, Fl @ 8:00 am
Primary Faculty Supervisor: Dr. Laura Bancroft  Contact person: Patti Horvath,
Laura.bancroft.md@flhosp.org  (407) 303-6973; patti.horvath@flhosp.org
Maximum Enrollment: 1 each block

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in Radiology. The student will gain experience in this exciting field which will utilize all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT, and MRI). Students will particulate pin radiology procedures, readout of cases and weekly case presentations. There are no call or weekend responsibilities.

Rotations can be general diagnostic radiology which will give an overview of all modalities—or specialty-specific rotations (i.e. Angio-interventional Radiology, Pediatric Radiology, Neuroradiology, Nuclear Medicine, Cardiac Radiology, Body (MRI, CT, US, Oncology combined); Musculoskeletal Radiology, and Women’s Radiology.

Objectives:
1. Understand the clinical radiographic indications for a variety of imaging modalities and examinations.
2. Understand the major procedure-specific activities of physicians and associated pediatric patient experiences for the differing image modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.
Electives
Radiology/Anesthesiology/Emergency Medicine

Neuro-Radiology
Clerkship Director: Michael Bellew, M.D.

MDE 8767 9
Full-time (2 weeks) (PO) Neuro-Skeletal Imaging of Winter Park
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Marc Shapiro
Contact person: Dr. Marc Shapiro
(407) 478-1550; shapmd@gmail.com &
vsco@neuroimagingwp.com & Richard Duemmling
RDuemmling@neuroimagingwp.com
Maximum Enrollment: 1 each block (every other block)

First Day: Report to NSI of Winter Park, FL, 2111 Glenwood Drive., Suite 101, Orlando, FL 32792
@ 9:00 a.m.

The focus of the elective is to provide students an intensive exposure to various modalities used in imaging the central nervous system, with a focus on MRI or CT. Students will gain experience interpreting results. No on call-duties and no weekend coverage.

Objectives:
1. Demonstrate competence in the selection of imaging tests to evaluate central nervous system structure and physiology; demonstrate familiarity with standards of care for patients undergoing neuro-imaging procedures; demonstrate basic skills in interpretation of common neuroimaging modalities.
Electives
Radiology/Anesthesiology/Emergency Medicine

Pediatric Radiology
Clerkship Director: Laura Varich, M.D.

MDE 8769 1
Full-time (2 or 4 weeks) First Day: Report to Florida Hospital Orlando, Radiology Reading Room, 1st floor @ 8:00 am
(FH) FH Orlando
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Laura Varich
Contact person: Patti Horvath,
(407) 303-6973; patti.horvath@flhosp.org
Maximum Enrollment: 1 each block (Except in July)

MDE 8769 7
Full-time (2 or 4 weeks) First Day: Report to Nemours Children’s Hospital lobby
(NCH) Nemours Children’s Hospital @ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. David Dinan,
david.dinan@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.baulkman@nemours.org
Maximum Enrollment: 1 each block

This rotation is open to all M4s and is particularly suited to students who have completed a general radiology elective or plan to pursue a career in a pediatric specialty. The student will gain experience in this exciting field which utilizes all modalities of radiology (general radiography, ultrasound, fluoroscopy, nuclear medicine, CT and MRI). Students will participate in radiology procedures, read-out of cases, and weekly case presentations. There are no call or weekend responsibilities.

Objectives:
1. Understand the clinical and radiographic indications for a variety of pediatric imaging modalities and examinations.
2. Understand the major procedure specific activities of physicians and associated pediatric patient experiences for the differing modalities.
3. Gain familiarity and develop basic interpretive and diagnostic skills regarding the radiographic appearance of common pediatric pathological processes for commonly utilized imaging modalities.
4. Develop basic skills required for the professional presentation of radiologic material for daily work rounds and weekly case conferences.
Electives
Radiology/Anesthesiology/Emergency Medicine

Anesthesia Elective
Clerkship Director: TBD

MDE 8702 3
Full-time (2 weeks)
(VA) VA Lake Nona
Grading Basis: Pass/Fail
Primary Faculty Supervisor: TBD
Contact person: VHAORLMedicalEducationCoordinators@va.gov
Maximum Enrollment: 1 each block

First Day: On the first day, report to Orlando VA Medical Center, 2nd floor @ 8:00 a.m. Please review the First Day Reporting Instructions document found on the M4 GPS site. Students should email Medical Education Coordinators to get computer access codes.

The University of Central Florida College of Medicine Selective in Anesthesia will introduce the student to evidence based care of the patient requiring surgery in an outpatient setting. They will have exposure to local, regional, or general anesthesia as well as the necessary preparation and care rendered in the preoperative and perioperative setting. The student will spend 2-4 weeks on the anesthesia service. Students will be responsible for the evaluation and workup of patients in the outpatient setting. There will also be opportunity for evaluation and assessment for patients receiving care for chronic pain. The student will be responsible for regular attendance. Students will be exposed to a series of practice based learning (PBL) sessions designed to illustrate common clinical anesthesia problems.

Objectives:

Medical Knowledge:
1. Begin to learn the fundamentals of anesthesia as applied to surgery. Examples include the effect of induction agents, inhalation anesthetic agents, and muscle relaxants. Students should obtain an understanding of the effect of these agents on the respiratory physiology, circulatory physiology, and the fluid and electrolyte balance of the surgical patient. Evaluation of blood gas analysis and treatment of acid/base disorders.
2. Begin to understand the anesthesia preoperative exam and the concerns faced by the anesthesiologist when anesthetizing a surgical patient.
3. Understand the reasoning for ordering diagnostic laboratory procedures in the preoperative patients. Examples include liver function tests, serum chemistries, arterial blood gas analyses and hematologic profiles.
4. Begin to understand the different types of anesthetic care. Examples include general anesthesia, spinal anesthesia, epidural anesthesia, and regional anesthesia and an understanding of when the various types of anesthetic care are indicated and which patients will benefit from regional versus general anesthesia.
5. Begin to understand the commonly used anesthesia non-invasive monitors and the anesthesia machine.
6. Begin to understand the methods of securing/supporting an airway and associated complications.
   a. Anatomy of the airway (adult vs. pediatric)
   b. Airway assessment
Anesthesia Elective—Continued

c. Basic skills and tools to maintain ventilation and oxygenation
d. Outline the proper and safe way to inducing patients including rapid sequence inductions
e. Outline basic intubation techniques
f. Outline the Difficult Airway Algorithm
g. Perform a successful laryngoscopy and intubation on an adult with normal anatomy.
7. Begin to understand the medical procedural treatment of chronic pain syndromes.

Patient Care:
1. Perform pre-anesthetic physical examinations including specific knowledge regarding the patient's airway and possible need for advanced airway intubation techniques. Basic Airway management—the student should be able to perform an airway exam, demonstrate proper use of oral/nasal airways, show different ways of delivering oxygen to patients, perform bag-mask and bag-endotracheal tube ventilation on patients, and demonstrate the ability to perform basic laryngoscopy/intubation, and atraumatic placement of laryngeal mask airway (LMA).

Interpersonal Communication Skills:
1. Demonstrate skill and sensitivity when counseling and educating patients and their families in a variety of anesthesia options.
2. Work effectively with the health care team.
3. Present patients in a concise, organized, logical, and knowledgeable manner.
4. Exhibit honesty, reliability, good communication skills, and appropriate judgment.

Practice-Based Learning and Improvement:
1. Use textbooks and journal articles to learn principles of anesthesia as applied to surgery.
2. Attend department of surgery conferences.

Systems-Based Practice:
1. Understand the relationship and shared responsibilities between anesthesiologists and surgeons.

Professionalism:
1. Demonstrate adequate communications skills while dealing directly with patients.
2. Arrive in the OR on time, prepared for the procedure.

Procedures:
Under appropriate supervision, the student will have the opportunity to assist and at times perform basic anesthesia procedures such as:
- Tracheal intubation using different techniques
- Regional anesthesia, spinal and epidural
- Placement of intravenous lines
Electives
Surgery

Advanced Clinical Anatomy
Clerkship Director: Andrew Payer, Ph.D.

MDE 8520 0
Full-time (2 or 4 weeks) (UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Andrew Payer
Contact person: Dr. Andrew Payer,
Andrew.payer@ucf.edu
Maximum Enrollment: 3 each block

First Day: Report to 411L UCF COM @ 9:00 a.m. At least one week prior to the elective, develop an outline of the goals and objectives that you would like to achieve and submit the outline to Dr. Payer for approval.

Primary goal of the elective is to provide medical students with the opportunity to study advanced clinical anatomy related to a medical specialty they anticipate applying for graduate medical education. The experience will involve cadaver dissections, literature survey and consulting with clinical specialists in the area they will be working on. The contact time is flexible and does not require any on call responsibility.

Objectives:
1. Demonstrate detailed anatomy, and anatomical variations in the area studied.
2. Describe the current knowledge of the anatomy in the area studied.
3. Relate and compare the anatomical knowledge with the current surgical approaches in the area studied.
4. Prepare and give a presentation to the supervising faculty member and assigned clinical faculty on the project outlined in the contract agreed upon at the beginning of the elective.
Electives
Surgery

**Pediatric Neurosurgery**
Clerkship Director: Michael Bellew, M.D.

**MDE 8491 7**
Full-time (2-4 weeks) First Day: Report to Nemours Children’s Hospital
(NCH) Nemours Children’s Hospital lobby
@ 8:30 am
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Todd Maugans,
todd.maugans@nemours.org
Contact Person: Tiffany Baulkman, (407) 394-0335;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

Monday-Friday round with neurosurgeons, assist with surgery, Minimal call, one weekend per month.

**Objectives:**
1. Understand neurosurgical issues related to children.
2. Manage acute neurological problems.
Pediatric Orthopedic Surgery Fourth Year Rotation

MDE 8485
Full-time (2-4 weeks)
(NCH) Nemours Children’s Hospital
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. John Lovejoy, III,
john.lovejoy@nemours.org
Contact Person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

This rotation is intended for the student interested in orthopedic surgery, pediatrics, and pediatric or family practice sports medicine. This rotation will provide an opportunity to gain insight and experience with the diagnosis and management of orthopedic surgical disorders of childhood. It will provide an overview of pediatric orthopedic topics selected from topics required by national pediatric, family practice, and orthopedic residency programs. The medical student will be expected to be involved in the workup, diagnosis, treatment, and follow up of patients with a wide variety of pediatric orthopedic surgical diseases. The student will be involved with the patient evaluation in the emergency department, outpatient clinic, and inpatient setting. He/She will also be involved in daily inpatient rounds, outpatient clinic, minor procedures, as well as major operations. The student will be expected to present in the orthopedic surgery education conference weekly, attend grand rounds, journal clubs, and morbidity and mortality conference. Call will be 1 week day and 1 weekend day per rotation for 2 week elective, and 2 week days and 1 weekend day per rotation for 4 week electives.

Objectives:

Patient Care:
1. Recognize common pediatric orthopedic surgical problems and emergencies in children.
3. Assist with the workup of new patients in the emergency department, outpatient clinic, and inpatient setting.
4. Assist in preparing patients for discharge.

Medical Knowledge:
1. Learn the fundamentals of basic sciences in pediatric orthopedic surgery.
2. Learn pediatric orthopedic common diagnoses and their management.
3. Read for the operative cases and be prepared for the OR.
4. Understand the pathology of pediatric orthopedic diseases.
5. Understand diagnostic tests commonly used pediatric orthopedic patients.
6. Practice evidence-based medicine by reviewing the literature.
Pediatric Orthopedic Surgery Fourth Year Rotation continued

Practice Based Improvement:
1. Utilize a pediatric orthopedic surgery textbook and journal articles to study pediatric orthopedic diseases.
2. Document patient care activities in the medical chart in a timely fashion.
3. Utilize electronic educational resources.

Interprofessional and Communication Skills:
1. Learn to communicate well with families and children.
2. Learn to interact with the surgical team.
3. Work well with other members of the health care team.

Professionalism:
3. Maintain sensitivity to others’ cultures, age, gender, and disabilities.
4. Maintain accountability for personal actions and decisions.

Systems-Based Practice:
1. Only communicate appropriately with families under the direction of Faculty.
2. Communicate with the health care team members about the surgical patients.

Learning Activities
The medical student will present in the weekly pediatric orthopedic surgery education conference. He/She will present in daily inpatient rounds, attend pediatric orthopedic surgery clinic, and participate in surgeries. He/She will also practice evidence-based medicine by performing literature searches on the pediatric orthopedic surgery diseases of their patients.
Electives
Surgery

**Pediatric Surgery Selective & Elective**
Clerkship Director: Matthew Lube, M.D.

**MDE 8490 1**
Full-time (2-4 weeks)  
(FH)  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Christopher Anderson  
[Christopher.Anderson.md@flhosp.org](mailto:Christopher.Anderson.md@flhosp.org)  
Contact person: Keisha Green  
(407) 303-7280; [lakeata.green@flhosp.org](mailto:lakeata.green@flhosp.org)  
Maximum Enrollment: 1 each block  
First Day: Report to (FH) Walt Disney Pavilion, 2501 N. Orange Ave., Suite 200, Orlando, FL @ 8:00 a.m.

**MDE 8490 7**
Full-time (4 weeks)  
(NCH) Nemours Children’s Hospital  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Tamarah Westmoreland, [tamarah.westmoreland@nemours.org](mailto:tamarah.westmoreland@nemours.org)  
Contact person: Tiffany Baulkman, (407) 567-3224; [tiffany.Baulkman@nemours.org](mailto:tiffany.Baulkman@nemours.org)  
Maximum Enrollment: 1 each block  
First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

Understand basic diagnosis and therapeutic management of pediatric surgical disease. Will participate in all inpatient and outpatient activities, including weekend rounds.

**Objectives:**
1. Take accurate H&P, see patients in consultation, participate in all didactic discussions and learn basic surgical technique.
Patient and Family Centered Care (PFCC) Elective

MDE 8124 7  
Part-time (2 weeks)  
(NCH) Nemours Childrens Hospital  
Grading Basis: Pass/Fail  
Primary Faculty Supervisor: Dr. Michael Campbell,  
(407) 650-7423, Michael.campbell@nemours.org  
Contact person: Tiffany Baulkman, (407) 567-3224;  
tiffany.Baulkman@nemours.org  
Maximum Enrollment: 1-2 each block

Patient and Family Centered Care (PFCC) philosophy and its practice demands that the patient and their families are engaged as active partners in their health care experience. The four main PFCC tenants call for care providers to engage families with respect, dignity, collaboration, open information sharing and meaningful participation. As such, students will be expected to actively participate in clinical care experiences ranging from participation in family centered patient rounds, walking with a patient through their care experience and actively participating in the Family Advisory Council meetings. The PFCC tenants above correlate directly with three of the AAMC’s Entrustable Professional Activities (EPA) including: gathering a history, collaborating as a member of an interprofessional team, identification of system failures and subsequent ways to improve quality and safety of care delivery at bedside.

Goals:

- Students will review the relevant literature on PFCC and will be able to understand and discuss the basic tenants of PFCC.
- Student will participate in team huddles to understand the interplay between the different departments that serve to support care in the hospital.
- Student will actively participate in health teams (Social Work, Child Life and Chaplains) to understand their unique contribution to care delivery.
- Student will actively participate in family centered rounds to gain a unique perspective of attending physician, interprofessional teams and family and patient as partners in care.
- Student will work with the course preceptor and other subject matter experts in the review of relevant literature which expands on the clinical experiences engaged in this course.
- Student will improve their skills in observation and assessment of patient histories by actively observing and documenting the patients experience as they move through the care stream at Nemours Children’s Hospital, Emergency Department and ambulatory clinics.
- Student will produce a summary paper which describes how their clinical elective experience and course literature reviewed impacted their personal care philosophy.
Electives
General Miscellaneous Categories

**Clinical Anatomy Teaching Elective**
Clerkship Director: Andrew Payer, Ph.D.

MDE 8093 0
Full-time (2 or 4 weeks) (UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Andrew Payer
Contact person: Dr. Andrew Payer, Andrew.payer@ucf.edu
Maximum Enrollment: 8 each block (October, November, December, and January only)

First Day: Report to 411 L UCF COM @ 9:00 a.m.
Contact Dr. Payer one week prior to the start of the elective to get a list of the sessions you will be attending and preparing for the Structure and Function module.

Students will participate as teaching assistants in the Structure and Function Module for the four week period of their elective. They will need to prepare for the anatomical/physiological areas being covered in the respective component of the HB-2 module during their elective period. They will be required to be prepared to discuss with the M-1 students the relevant anatomy/physiology and medical imaging of the area being studied. They will attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions. They will also assist the M-1 students with their cadaver/autopsy report data and provide support for students having difficulties in the areas being studied.

**Objectives:**
1. Prepare pro-section anatomy dissections for demonstration to M-1 students.
2. Attend all anatomy/histology/physiology/medical imaging laboratory/simulation sessions.
3. Demonstrate knowledge of the anatomy/physiology/histology and medical imaging of the areas being studied in the elective
4. Assist M-1 students having academic difficulties with anatomy
5. Assist M-1 students’ knowledge of clinical anatomy
Electives
General Miscellaneous Categories

The History of Western Medicine

MDE 8051
Part-time (2 weeks)
(VA) (UCF COM) Orlando VA & UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Saad Shaikh, sshaikhmd@yahoo.com
Contact Person: Kate Knowles, (407) 266-1105; kate@ucf.edu; Dr. Shaikh, sshaikhmd@yahoo.com
Maximum Enrollment: 1 per block

First Day: Contact Dr. Shaikh at least one week before course begins. Contact Kate Knowles if there is no reply.

Students will be required to listen to an audio lecture series and complete assigned readings to be determined by course supervisor. Student will also be required to complete and examination based on the lecture series.

Objectives:
a. Develop an understanding of medical history from Hippocratic medicine to the sequencing of the human genome.
b. Become familiar with medical history’s significant figures and the impact they had on the evolution of medicine.
c. Deepen understanding of illness and suffering through the perspective of medical history.
d. Recognize the interrelationship between medicine, science, and society through history.

Learning Activities
Completion of the following assignments:
1. Doctors: The History of Scientific Medicine Revealed Through Biography; available at amazon.com or audible.com
2. The Making of Modern Medicine by the BBC (Audio Series – 7.25 hours)
3. Textbook: Medical Firsts: From Hippocrates to the Human Genome by Robert Adler, MD
Electives
General Miscellaneous Categories

**Not Currently Available: Advanced Physical Diagnosis**
Clerkship Director: Sergio Salazar, M.D.

MDE 8208 0
2 weeks (UCF COM)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Sergio Salazar
Contact person: Dr. Sergio Salazar
Sergio.Salazar@ucf.edu
Maximum Enrollment: Varies

First Day: Report to 411 H UCF COM @ 10:00 a.m.

Improve basic physical exam and learn advanced techniques to improve patient care and assessment. Students will be taken on “rounds” with bedside teaching. No call to be taken.

**Objectives:**

1. Demonstrate the ability to perform an accurate history and physical exam and use the information gathered to determine an appropriate differential diagnosis.
2. Formulate accurate hypothesis.
Narrative Medicine Elective

MDE 8048                     First Day:   Report to Nemours Children’s Hospital lobby
Part-time (2 weeks)    @ 8:30 am for a tour and brief orientation.
(NCH) Nemours Children’s Hospital Medical Library
Grading Basis:  Pass/Fail
Primary Faculty Supervisor: Olivia DiLeonardo, MLS,
Olivia.dileonardo@nemours.org
Contact Person: Tiffany Baulkman, 407-567-3876;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 per block

Student will be expected to participate in patient rounds; read/view and be prepared to discuss assigned readings (including short stories, essays, or poetry) and short films; actively participate in close reading exercises; write parallel chart entries (a parallel chart entry is a written, reflective account written by the student reflecting upon a patient encounter); elicit and transcribe patients illness narratives; respond to writing prompts developed by the preceptor; and lead a Narrative Medicine workshop for the M3 and M4 students assigned to NCH.

Goals of the Rotation:

- Student will learn about the history and development of Narrative Medicine and medical humanities. Student will be able to identify how humanities-related disciplines can “…enhance empathy, perspective-taking, openness to different viewpoints, and to prompt reflection on self, others, and the world.” (Kumagai, 2014)
- Student will recognize the ability of the arts to “make strange”: “…to trouble one’s assumptions, perspectives, and ways of being in order to view anew the self, others, and the world, (which) may serve a critical educational function in the development of reflective, humanistic clinicians.” (Kumagai, 2014)
- Students will be able to identify and describe the tenets of Narrative Medicine: attention, representation, affiliation (Charon, 20016)
- Student will learn to conduct close reading exercises using prose, poetry, essays, short films, photography, and works of art assigned by preceptor
- Student will participate in Pediatric Intensive Care (PICU), Neonatal Intensive Care (NICU), and Pediatric Hospitalist rounds with direct faculty preceptor supervision, and write parallel chart entries based upon patient encounters.
- Student will elicit a narrative from a patient, listen while the patients tells his/her story, and then transcribe the story, concentrating on capturing its essence. The student will then read his/her written version of the patient’s story back to the patient. This experience will be conducted under the direct supervision of the faculty preceptor. This exercise has been shown to develop the skills of narrative
competence and attentive listening, and ultimately result in enhanced affiliation with the patient the patient care experience from the patient perspective. (Chretien et al, 2015; Das Gupta, 0007; Kumagai, 2008)

**Narrative Medicine Elective continued**

- Student will respond to writing prompts and actively participate in discussion of these written entries with preceptor.
- Student will choose a piece of short fiction (poetry or prose), short film, photographs, or work of art and lead a Narrative Medicine exercise for M3 and M4 students assigned to NCH, including a close reading, in-depth discussion, and response to a writing prompt under the direct supervision of the faculty preceptor.

**Learning Activities**
Student will participate in close reading and writing exercises daily, both scheduled with the preceptor as well as independently as directed by the preceptor. Student will participate in NICU, PICU, and Hospitalist wounds, elicit and transcribe patient illness narratives, and write reflectively about patient encounters. Student will actively participate in discussion of readings and his/her reflective writing. At the end of the course, student will lead a 1 and ½ hour Narrative Medicine workshop consisting of close reading exercises, discussion, and writing prompt. These workshops already occur as part of the UCF COM pediatric clerkship at Nemours Children’s Hospital and are currently led by the preceptor, Olivia DiLeonardo.
Electives
Ophthalmology/Pediatrics

Genetics and Dysmorphology
Clerkship Director: Colleen Moran-Bano, M.D.

MDE 8438 7
Part-time (2 weeks) 
(NCH)
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Patricia Wheeler 
Patricia.wheeler@nemours.org
Contact person: Tiffany Baulkman, (407) 567-3224;
tiffany.Baulkman@nemours.org
Maximum Enrollment: 1 each block

First Day: Report to Nemours Children’s Hospital lobby @ 8:30 am

Students will become familiar with the systematic approach to evaluating a patient with a known or suspected genetic, cytogenetic, metabolic or dysmorphic order.

Objectives:
1. Students will be able to perform a physical examination with emphasis on identifying and describing congenital anomalies and dysmorphic features.
2. Students will be able to elicit and construct three generation pedigree (family tree).
3. Students will become familiar with how genetic counselors and geneticists approach counseling for conditions with Mendelian inheritance patterns (autosomal dominant, autosomal recessive, and X-linked) and non-Mendelian inheritance patterns (mitochondrial, inheritance, multifactorial conditions and chromosomal abnormalities).
4. Students will become familiar with on-line resources that are available for physicians caring for patients with genetic disorders.
5. Students will become familiar with community resources and support groups for individuals and their families who have a genetic disorder.
6. Students will learn the common indications for referring a patient to genetic services.
Electives
General Miscellaneous Categories

MedU Course (CLIPP, SIMPLE, WISE, CORE, fmCASES)

MDE 8900
Part-time (2 weeks)
(UCF COM) UCF College of Medicine
Grading Basis: Pass/Fail
Primary Faculty Supervisor: Dr. Colleen Moran-Bano
Contact Person: Ken Staack, Coordinator,
ken.staack@ucf.edu
Maximum Enrollment: Unlimited

First Day: Sign in to the course(s) for which you signed up and complete the cases by the end of the block.

This course will focus on one of the following MedU courses for a two-week elective: CLIPP (Pediatrics, CLIPP Culture in Health Care, CLIPP Medical Home), CORE Radiology, WISE-MD (surgery), fmCASES (family medicine) or SIMPLE (internal medicine). Students will utilize the online MedU virtual patient courses found at http://www.med-u.org. Each course contains 30+ interactive cases with links for additional learning. Many of the courses have formative multiple choice questions associated with each case. Students choosing CLIPP, CORE, fmCASES, or SIMPLE will be required to complete and pass a summative assessment through MedU for successful completion of the course. These exams must be administered at College of Medicine before a grade for the elective can be assigned. The courses will be pass/fail.

Learning Activities
Student is responsible for completing the entire selected virtual patient course on line and completing any required assessment activities associated with the course.