

**MEL 7320Z**                      **Externship in Anesthesiology**  
**MEL 7760**                        **Anesthesiology Elective**

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**MEL 7320Z Externship in Anesthesiology**

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Length: 4 weeks            Time(s): Full Time            Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at USF-MS

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**MEL 7760 Anesthesiology Elective**

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Dr. Malcolm Klein

**Objective**

The primary objective of this course is to introduce the student to contemporary anesthesiology practice with emphasis on respiratory physiology, cardiovascular physiology, and perioperative management of the surgical patient. Preoperative evaluation and perioperative optimization of the patient's co-morbid medical conditions before anesthesia and surgery will be stressed.

Students will make preoperative rounds with the anesthesiology staff on patients scheduled for surgery. They will assist in any preoperative study or examinations required and participate in the decisions as to pre-anesthetic medication and anesthetic agents to be administered. In the operating room they will work directly with the anesthesiologist, and participate as far as possible in the administration of the anesthetic agents. This will include instruction in tracheal intubation, use of anesthetic and monitoring equipment, the pharmacology of the various agents used for anesthesia, and the problems involved in following the patient during their period of anesthesia. Students will also participate in regional block anesthesia and pain clinics as opportunity presents. They will follow the patient throughout their post-anesthetic recovery. Students on the service will also make postoperative observations/rounds after the patient is returned to the floor. This course offers the student an unparalleled opportunity to understand the acute respiratory and cardiovascular physiology of anesthetized surgical patients, and to become actively involved in the patients' perioperative care. Direct, hands-on participation in common anesthetic and medical procedures will be emphasized.

**Evaluation**

Students will be evaluated by written, oral, and/or practical methods.

Length: 4 weeks            Time(s): Full Time            Hours: 50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 2 at MCC; 2 at T-VAH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

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## DERMATOLOGY

MEL 7320L	Externship in Dermatology
MEL 7321	Clinical Dermatology
MEL 7324	Dermatopathology
MEL 9999L	Independent Study in Dermatology & Cutaneous Surgery

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### MEL 7320L Externship in Dermatology

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at USF-MS

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### MEL 7321 Clinical Dermatology

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Dr. Lien and Faculty

Upon completion of this elective, the student will be able to conduct a full dermatologic examination and will be able to recognize and offer reasonable management for common dermatologic disorders, including those primary in the integument and those associated with systemic disease. Students will rotate throughout the elective at the USF Medical Clinics and the Davis Island satellite office, Tampa Veterans Hospital, H. Lee Moffitt Cancer Center, and other ancillary clinics. The student will attend various weekly conferences: Introduction to Dermatology, Morphology, Grand Rounds and others.

Evaluations will be derived from the assessment by the faculty and residents of the progress and performance of the student in the clinical setting.

Periods 2, 3 and 4 are reserved for students applying to dermatology residency programs.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 5 at USF-MC

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## **MEL 7324 Elective in Dermatopathology**

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Drs. Messina and Glass

This course is designed for students interested in expanding their knowledge of dermatopathology mostly, but not limited to, those pursuing a career in dermatology. Students will receive didactic and case-based instruction in dermatopathology using daily microscope, sign-out with attending faculty, and attending biweekly dermatopathology teaching conference. Students interested in dermatology may also participate in up to three afternoon dermatology clinics weekly. Students may have the opportunity to participate in research in the form of co-authoring a case report, meeting abstract, or assisting with a portion of a larger departmental research project with a resident or faculty member, if one is available during the rotation.

Length: 4 weeks      Time(s): Full Time      Hours 40-44 per week

Months: 1 x 2 o 3 o 4 o 5x 6x 7 x 8 x 9 x 10 x 11 x

Availability: 2 at USF-MS

## **MEL 9999L Independent Study in Dermatology & Cutaneous Surgery**

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Faculty

The course is designed to provide students interested in Dermatology as a career an opportunity to carry out an in-depth self study of a selected topic, with the goal of being co-author of a publication in a peer-reviewed journal. The course of study will be determined by the faculty member and student. Prior to scheduling the course, students must meet with their faculty mentor to determine the course of study. Independent reading and research is required, and assessment will be based on successful completion of a written paper or project.

This elective is NOT available to visiting students.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 x 10 o 11 o

Availability: No Limit at USF-MS

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MEL 7255	Family Medicine Residency Elective
MEL 7257	Geriatrics Elective
MEL 7258	Elective in Rural Medicine (AHEC)
MEL 7259	Emergency Medicine Elective
MEL 7267	International Family Medicine Elective
MEL 7320F	Externship in Family Medicine
MEL 8251	Acting Internship Family Medicine
MEL 8254	Elective in Sports Medicine
MEL 8263	Public Sector Medicine (PSMP)
MEL 8264	Family Medicine Elective - USF Med Clinics
MEL 8265	Family Medicine Preceptorship
MEL 8272	Morton Plant Mease Women's Health Elective
MEL 8273	Morton Plant Mease Family Medicine Flexible Elective
MEL 9999F	Independent Study in Family Medicine

### MEL 7255 Family Medicine Residency Elective

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Faculty and Staff at Affiliated Residency Programs

This elective for senior students may be served at any of the affiliated Family Medicine Residencies (Bayfront Medical Center, St. Petersburg; Florida Hospital, Orlando; Halifax Medical Center, Daytona Beach; Tallahassee Memorial HealthCare, Inc., Tallahassee; St. Vincent's Medical Center, Jacksonville; or Morton Plant Mease Health Care, Clearwater) and may include outpatient, inpatient, and nursing home care, or other activities.

#### Objectives

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1. Introduce the student to the relationship of Family Medicine to the medical community
2. Demonstrate the relationship of ambulatory care to hospital care and the effective utilization of other specialty consultations
3. Improve the student's skills and clinical judgment by a defined and supervised patient care experience
4. Demonstrate the organizational structure of a family practice residency including office management, medical records, patient education, and preventive medicine
5. Demonstrate the various responsibilities and activities of the Family Medicine Resident

#### Evaluation

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The Family Medicine faculty will prepare a formal evaluation based on the following:

1. Fund of medical knowledge
2. Quality of assessment and presentation
3. Clinical judgment as indicated by the rationale of diagnostic and management plans
4. Attitude and rapport with patients and families
5. Subjective elements of interpersonal relationships, motivation, and ability

Students must check with the Department of Family Medicine before scheduling this elective through the Registrar's Office. Students are then required to contact the residency site for final approval and any arrangements that need to be made. Contact information can be obtained through the Family Medicine Education Coordinator at 974-2445.

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: Specific to each location

Availability:

2 at BFMC	1 o	2 o	3 o	4 o	5 o	6 o	7 o	8 o	9 o	10 o	11 o
2 at FH	1 o	2 o	3 o	4 o	5 o	6 o	7 o	8 o	9 x	10 x	11 x
1 at HH	1 x	2 x	3 o	4 o	5 o	6 o	7 o	8 x	9 x	10 x	11 x
1 at TMH	1 x	2 o	3 o	4 o	5 o	6 o	7 o	8 o	9 o	10 o	11 o
2 at SVMC	1 x	2 x	3 o	4 o	5 o	6 o	7 o	8 o	9 o	10 o	11 o
2 at MPMHC	1 o	2 o	3 o	4 o	5 o	6 o	7 o	8 o	9 o	10 o	11 o

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## MEL 7257 Geriatrics Elective

Faculty and Staff at Helen Ellis Memorial Hospital

This elective is a highly individualized, very flexible program. It will be custom-tailored to the individual student's interests and needs. Teaching will be done on a one-on-one basis. Students will be assigned to several primary care geriatric physicians. Teaching sites will primarily include practitioners' private offices and the Helen Ellis Memorial Hospital (HEMH). Depending upon the individual student's interests other additional teaching sites may include the HEMH's outpatient walk-in clinics, emergency room, ACLF's, nursing homes, and patient home visits. The student will have complete access to virtually all areas and staff of HEMH. This will facilitate continuity of care in following geriatric hospital in-patients throughout the entire course of their illness. Free overnight hospital lodging facilities and beeper are available if desired by the student.

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### Objectives

1. Acquaint the student with effective medical care of the elderly
2. Teach successful diagnostic and therapeutic problem-solving skills in geriatrics
3. Produce clinical competence and efficiency in diagnosis and treatment
4. Accomplish accurate assessment of all aspects of aging, including physical, emotional, psychiatric, spiritual, social, and interpersonal needs
5. Teach preventative medicine in geriatric care
6. Familiarize the student with the problems of drug therapy and polypharmacy in the aged
7. Expose the student to non-pharmacological treatment of geriatric problems
8. Show the student methods of maintaining the independence of the elderly
9. Sensitize the student in assisting with end of life decisions
10. Demonstrate effective utilization of multidisciplinary supportive ancillary services that improve the life quality and independence of the aged
11. Reinforce the cardinal role of the primary care physician in the geriatric health care team and demonstrate the effective utilization and coordination of specialty consults in the cost effective care of the aged
12. Inspire the student to enter the field of primary care and geriatrics
13. Demonstrate competence in the review and critique of the literature regarding selected topics in aging
14. Obtain a history and perform a physical in an efficient and considerate fashion with a geriatric patient in the office, hospital, and nursing home setting
15. Demonstrate appreciation of the importance of the patient's live circumstances, support systems, and coping skills in the assessment and management of the patient's health

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16. Demonstrate knowledge of the physiological changes of aging, and how those changes affect the physical examination, laboratory investigation, disease presentation, prescribing of medication, and management when dealing with older patients
17. Demonstrate knowledge of the importance of an on-going relationship with the patient and the patient's family and how these factors interact in the management of older patients' problems
18. Demonstrate competence in the management of common problems that bring older patients to their physician

#### Evaluation

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1. Fund of medical knowledge
2. Ability to apply this knowledge, clinical judgment, and common sense
3. Enthusiasm, tenacity, professionalism, and idealism
4. Student case log and case presentations
5. Student's reading about selected emergency patients (selected by student).
6. Preceptor evaluations

**For HEMH, contact:** Dr. Fred Rover, Helen Ellis-Memorial Hospital, Phone: 727-934-7877 or 727-938-5862

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at HEMH

#### **MEL 7258 Elective in Rural or Underserved Medicine (AHEC)**

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Faculty and Staff at Premier Community HealthCare Group (Dade City), Suncoast Community Health Care Centers (Ruskin, Dover, Plant City), Tampa Community Health Centers, Community Health Center of Pinellas, DeSoto Memorial Hospital (Arcadia), or Citrus County Health Department (Lecanto)

This elective rotation is designed to introduce the senior student to the unique characteristics of medical practice in a rural or underserved community. Students will be supervised by clinical family physician faculty and will gain a better understanding of providing care to a medically underserved population and the tremendous health needs that exist. Depending on the site selected, Gulfcoast North AHEC or Gulfcoast South AHEC may offer housing and/or a mileage stipend to students.

#### Goals and Objectives

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1. Compare and contrast the health needs and problems encountered in rural or underserved practice to those encountered in prior urban practice rotations
2. Identify the unique opportunities and challenges to medical practice and life in a rural or underserved community
3. Introduce/sensitize the student to cross-cultural issues in health care
4. Understand the mechanisms and indications for consultation and referral in rural or underserved practice settings
5. Evaluate the business management of rural or underserved practice, including availability of organized funding for patient care, managed care, etc.

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## Organization of Elective

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1. Arrangements for a specific time commitment will be made through the Department of Family Medicine in conjunction with Gulfcoast North AHEC or Gulfcoast South AHEC.
2. The student will accompany the clinic physician Monday through Friday at the designated clinic site, will see patients, and will perform procedures assigned by the preceptor under his/her supervision.
3. At certain locations opportunities are available for additional practice activities within the hospital, emergency department, and in the community.

## Evaluation

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The assigned faculty preceptor will provide an individual evaluation addressing the student's adaptability and understanding as well as knowledge, judgment, and rapport.

At certain sites this elective is available to USF students only. The Department of Family Medicine and Gulfcoast North AHEC or Gulfcoast South AHEC will make the final arrangements. Availability at all clinic sites is per the preceptor's approval.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at SCHC; 1 at DMH; 1 at CCHD; 1 at PCHG; 1 at TCHC; 1 at CHCP

## **MEL 7259    Emergency Medicine Elective**

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Emergency Room Faculty at Bayfront Medical Center or Helen Ellis Memorial Hospital

Teaching will be done on a one-on-one basis. Students will be assigned to emergency room shifts in such a way that they experience emergency activities during the day, night, and weekends. Preceptors will be emergency room physicians also trained in primary care and family practice. If desired, students may accompany EMTs in ambulances.

In the emergency room, the student will initially assess each patient and propose treatment plans. The student may elect to follow the admitted ER patients throughout their hospital stay. Under the direct preceptor supervision, the student may perform simple procedures. These may include suturing, insertion of the catheters, IVs, injections, and others as appropriate. Students may only choose one site for this elective.

## Objectives

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1. Develop competence in rapidly assessing ER patients (triage)
2. Learn the initial management of common problems and critical patients
3. Learn effective CPR
4. Recognize complications of medical care and drug side effects
5. Sensitize the student to the emotional impact of major trauma
6. Teach the student how to deal with family members during an emergency medical crisis
7. Inspire in the student empathy, compassion, good judgment, and common sense
8. Perform simple procedures under direct preceptor supervision, as noted above
9. Stimulate the student's interest in primary care and family medicine

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## Evaluation

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1. Fund of medical knowledge
2. Ability to apply this knowledge, clinical judgment, and common sense
3. Enthusiasm, tenacity, professionalism, and idealism
4. Student case log and case presentations
5. Student's reading about selected emergency patients (selected by student)

Preceptor evaluations:

**For Bayfront Medical:** contact the Coordinator at (727) 893-6959.

**For HEMH:** contact Dr. Fred Roeber, Helen Ellis-Memorial, at (727) 934-7877 or (727) 938-5862

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at HEMH; 2 at BFMC

## **MEL 7267 International Family Medicine Elective**

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Dr. Eduardo Gonzalez

There are a wide variety of opportunities available for students with an interest in international health care. This elective is designed to provide support for USF students to get international experience from different sources.

Experiences may include:

1. Foreign travel and provision of medical services
2. Academic study (readings and lectures) on the health problems of a particular area
3. Preparation and/or presentation of a report on the student's experience
4. The international development of the specialty of Family Medicine
5. Other clinical issues (including the potential of time spent in USF Family Medicine Clinics)

**Course Requirements:** Any interested student **MUST** meet with Dr. Gonzalez to plan the elective. Ideally, this should be done prior to the start of the academic year but **MUST OCCUR AT LEAST 6 MONTHS PRIOR TO THE START OF THE ELECTIVE**. Periods 10 and 11 may be scheduled with the prior approval of the Associate Dean for Student Affairs no later than the final deadline to make schedule changes in January.

## Objectives

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1. Identify the general and specific health care needs of a particular foreign country
2. Identify the role of family physicians in international health care
3. Gain additional clinical skills in the provision of primary health care

## Evaluation

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The student's evaluation will be individualized based on the format of his/her particular elective. The specific evaluation criteria will be decided in consultation with Dr. Gonzalez prior to scheduling the elective.

Emergency medical insurance is required for all electives abroad.

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Length: 4 weeks      Time(s): Full Time      Hours: 45-50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 x 11 x

Availability: 4 at USF-MS

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### **MEL 7320F    Family Medicine Externship**

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This externship is designed for students who wish to do a rotation out of state or at a site that is not affiliated with USF. Students must first determine the location of the externship. An externship application must be completed and signed by the Department Director. This application can be obtained through the Registrar's Office. For further information contact the Department of Family Medicine Education Coordinator at (813) 974-2445.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 x 11 x

Availability: No Limit at USF-MS

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### **MEL 8251    Acting Internship Family Medicine**

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Faculty and Staff at Bayfront Medical Center and Morton Plant Mease Health Care

#### Objectives

1. Integrate the student into the hospital teaching service such that the student functions at the level of an intern, managing their own patients under the supervision of a senior resident
2. Strengthen the student's ability to develop an initial assessment and plan for patients requiring hospitalization, to succinctly present the admission to the team, and to effectively manage the patient's medical problems throughout the hospital admission
3. Educate the student regarding common medical problems requiring hospital admission, indications for common in-patient procedures, discharge planning, and legal/ethical/cost considerations

#### Responsibilities

The student is expected to function as a Family Medicine intern under the direct supervision of the senior resident. This includes pre-rounding on their patients, writing SOAP notes, attending morning report and teaching rounds, writing orders, following up on labs/consults/imaging, and doing discharge planning. Overnight call is to be determined by the site of externship.

#### Evaluation

1. Fund of medical knowledge
2. Quality of assessments, plans, and presentations
3. Clinical decision-making skills
4. Attitude, motivation, and rapport with patients and team members

Scheduling: To determine availability of elective space at Morton Plant Family Medicine Residency, contact Lee Blomberg at (727) 467-2517. Housing is available on a first-come, first-serve basis.

To reserve a space in this course at Bayfront Family Medicine Residency, students must contact the Coordinator at the Bayfront Family Health Center at (727) 893-6959.

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Final arrangements concerning the course location/preceptor will be made by the Department of Family Medicine after the student is scheduled for the elective.

Length: 4 weeks      Time: Full Time      Hours: 50 per week

Availability: 1 at BFMC; 1 at MPMHC

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

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### **MEL 8254 Elective in Sports Medicine**

Dr. Michele Pescasio and Family Medicine and Orthopaedic Faculty

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#### Objective

Provide students an opportunity to learn sports medicine from a primary care/family medicine and orthopaedic standpoint

Senior students will have the opportunity to work in the sports medicine clinic in the USF Medical and Orthopaedic Clinics. They will also work with orthopedic surgeons in the community who are actively involved in sports medicine and the care of athletes. Students will learn the basics of the examination and assessment of musculoskeletal injuries in athletes as well as non-orthopedic medical problems of the athlete. There will be an opportunity to work with athletic trainers, physical therapists and chiropractors and learn the basics of musculoskeletal radiology. Students will also have the opportunity to participate in game coverage for USF athletic events as well as other professional teams in the Tampa Bay area. Students will also be expected to present a project in the area of sports medicine.

Interested students must contact the Education Coordinator from the Department of Family Medicine at (813) 974-2445 or by E-mail at [lqjordan@health.usf.edu](mailto:lqjordan@health.usf.edu) prior to enrolling.

Prerequisite: BCC 8116 Skin and Bones Medicine Clerkship

Length: 4 weeks      Time(s): Full Time      Hours: 40-50/week

Months: 1 x 2 x 3 x 4 x 5 x 6 o 7 x 8 x 9 x 10 x 11 x

Last day to drop/add is end of Period 3

Availability: 4 at USF-MC

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### **MEL 8263 Public Sector Medicine (PSMP)**

Dr. Laurie Woodard and Family Medicine Faculty

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#### Objective

Provide a learning experience for students who have a demonstrated interest in the health care of the underserved and other community health issues.

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#### Description/Evaluation

Students will attend all PSMP clinics and post conferences at Judeo Christian Health Clinic and Brandon

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Outreach Clinic. When more junior students are present, the elective students will assume peer teaching roles. Students are also encouraged to attend similar free clinic sessions at other community sites pending approval of the course director. Other activities include: participation in the monthly Health Disparities Scholarly Concentration Journal club; and a written report of a topic or project related to public medicine. Students will be encouraged to develop projects worthy of publication or presentation at a scholarly meeting.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS

### **MEL 8264 Family Medicine Elective - USF Med Clinics**

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Dr. Eduardo Gonzalez and Family Medicine Faculty

The aim of this elective is to reintroduce students to primary care in a Family Medicine clinic. Students will be assigned to the USF Family Medicine clinic where they will be responsible for evaluating patients under the guidance of a faculty member. Emphasis will be on the patient as a person, and the application of knowledge of the effects of disease, lifestyle, family setting, and personality on the development and management of the patient's problems. Experience will be gained in the management of the wide range of problems present in family medicine. Students may also be assigned to work at JCHC and BORC in some rotations and precepting first and/or second year students.

#### Objectives

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1. Identify and manage problems which present commonly in family medicine, emphasizing the importance of continuing care and follow-up
2. Identify the biological, psychological, and social factors that are relevant in the etiology of patients' problems and integrate these factors in a treatment plan
3. Improve problem-solving skills
4. Study the role of other health professionals in a patient's care (consultants, social workers, nurse practitioners, physical therapists, etc.) and the relationship between them and the family physician
5. Improve skills in patient education and communication

Evaluation will be based on competence, consideration of patients, and practical approach to problems.

Final arrangements concerning course location/preceptor will be made by the Department of Family Medicine after the student receives his/her elective choice.

Contact: Education Coordinator – (813) 974-2445

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MC

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 8265 Family Medicine Preceptorship**

Community Clinical Faculty

During this elective students will accompany faculty members who are in private clinical practice. This experience will be primarily in the office but will include involvement in the care of the preceptor's patients in hospitals, nursing homes, and at home. Emphasis will be on the patient as a person and the application of knowledge of the effects of disease, lifestyle, family setting, and personality on the development and management of the patient's problems. Experience will be gained in the management of the wide range of problems that are present in family practice.

### Objectives

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1. Identify and manage problems which present commonly in family practice, emphasizing the importance of continuing care and follow up
2. Identify the biological, psychological, and social factors that are relevant to the etiology of patients' problems and integrate these factors in a treatment plan
3. Improve problem-solving skills
4. Study the role of other health professionals in the patient's health care (consultants, social workers, nurse practitioners, physical therapists, etc.) and the relationship between them and the family physician

Evaluation will be on the basis of competence, consideration, and practical approach to problems, and a written report.

In order to determine availability, students are required to select and receive permission from a community preceptor prior to registering for this elective. Final arrangements concerning course location/preceptor will be made by the Department of Family Medicine after the student receives his/her elective choice.

Length: 4 weeks      Time(s): Full Time      Hours: 44-50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 per period

## **MEL 8272 Morton Plant Mease Women's Health Elective**

Faculty and staff at Morton Plant Mease Family Medicine Residency

### Objectives

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1. Familiarize the student with the practice of gender-specific medicine, women's preventive health, and obstetrics and gynecology in a Women's Center of Excellence
2. Strengthen the student's ability to take a thorough obstetric/gynecologic and women's preventive health history and perform routine preventive gynecologic and perinatal exams
3. Expose the student to common gynecologic/obstetric procedures such as colposcopy, endometrial biopsy, IUD placement/removal, ultrasound, c-section, fetal scalp electrode placement, etc.

### Responsibilities

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Take an active role in the assessment and management of patients in the hospital and office setting.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Evaluation

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1. Fund of medical knowledge
2. Quality of assessments, plans, and presentations
3. Clinical decision-making skills
4. Attitude, motivation, and rapport with patients and team members

### Scheduling:

To determine availability of elective space, contact Lee Blomberg at (727) 467-2517. Housing is available on a first-come, first-serve basis.

Length: 4 weeks      Time: Full Time      Hours: 50 per week

Availability: 1 at MPMHC

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7o 8 o 9 o 10 o 11o

## **MEL 8273 Morton Plant Mease Family Medicine Flexible Elective**

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Faculty and staff at the USF/Morton Plant Mease Family Medicine Residency

### Objectives

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1. To encourage the student to design and complete his or her own ideal elective within the realm of Family Medicine. This may include but is not limited to: office procedures, Family Medicine out-patient, FM in-patient acting internship, women's health, pediatrics, geriatrics, nursing home, research, Ob/Gyn, acute care, etc.
2. To provide the student with a \$100 scholarship to cover expenses as well as to provide housing when available
3. To introduce the student to the breadth of Family Medicine
4. Specific objectives to be determined based on elective scheduled

### Responsibilities

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The student is expected to design their elective in advance with Family Medicine faculty and to take an active role in the assessment and management of patients. For design assistance please contact Lee Blomberg at (727) 467-2517.

## Evaluation

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1. Fund of medical knowledge
2. Quality of assessments, plans, and presentations
3. Clinical decision-making skills
4. Attitude, motivation, and rapport with patients and team members

### Scheduling:

To determine availability of elective space, contact Lee Blomberg at (727) 467-2517. Housing is available on a first-come, first-served basis.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time: Full-time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at MPMHC

**MEL 9999F Independent Study in Family Medicine**

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Faculty and Staff of the Department of Family Medicine

Prior to scheduling this course, students must meet with their preceptor in order to identify and define their independent study. After determining a course of study, students must complete an independent study application, obtaining signatures from both their faculty preceptor and the Education Coordinator, who can be reached at (813) 974-2445. This paperwork should be completed at least 2 months prior to the elective.

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

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**DIVISIONS**


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***Allergy and Immunology***


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MEL 8315	Clinical Allergy/Immunology
MEL 8376	Respiratory Disease Research

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***Cardiovascular Disease***


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MEL 7303	Consultative Cardiology
MEL 8351	Harvey Elective in Cardiology

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***Emergency Medicine***


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MEL 7320Q	Externship in Emergency Medicine
MEL 8347	Adult Emergency Medicine
MEL 8368	Emergency Medicine Outside the Hospital
MEL 9999Q	Independent Study in Emergency Medicine

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***Endocrinology and Metabolism***


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MEL 7305	Clinical Endocrinology and Metabolism
MEL 8350	Clinical Endocrinology and Metabolism - Bay Pines

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***Digestive Diseases and Nutrition***


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MEL 7306	Gastroenterology Elective
MEL 8318	Esophageal and Swallowing Disorders
MEL 8390	Hepatology Elective

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***General Internal Medicine***


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MEL 7121	Hospital Medicine and Patient Safety Elective
MEL 7320-M	Externship in Medicine
MEL 8332	Elective in Rural Medicine (AHEC)
MEL 8334	Acting Medicine Internship
MEL 8335	General Internal Medicine Consult Service
MEL 8342	Acting Medicine Internship - ORHS
MEL 8349	Medicine Acting Internship - Bay Pines
MEL 8360	Primary Care in a Group Practice
MEL 8953	Integrative Clinical Skills
MEL 9940	Honors Acting Internship Program in Internal Medicine
MEL 9999-M	Independent Study in Medicine

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***Geriatric Medicine***


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MEL 8312	Primary Care of the Elderly
MEL 8372	Introduction to Palliative Medicine

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*Continued on next page*

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**Hours:** The approximate hours per week the student will be involved with this elective.

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**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

### ***Hematology and Medical Oncology***

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MEL 8308	Ambulatory Hematology-Oncology
MEL 8309	Inpatient Hematology
MEL 8345	Inpatient Medical Oncology
MEL 8366	Adult Bone Marrow Transplantation

### ***Infectious Diseases and International Medicine***

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MEL 7310	Infectious Diseases and Tropical Medicine
MEL 7314	Tropical Medicine and Public Health Abroad
MEL 8357	Infections in Transplant Medicine
MEL 8361	Clinical Management of Sexually Transmitted Diseases
MEL 8362	Infections in Cancer and Bone Marrow Transplant Patients
MEL 8363	Infections in the Intensive Care Unit
MEL 8364	Clinical Epidemiology of Infectious Diseases
MEL 8365	Outpatient Care of the HIV-Infected Patient
MEL 8371	Selected Topics of Infectious Disease

### ***Medical Ethics and Humanities and Palliative Medicine***

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MEL 8330	Social Problems in Medicine
MEL 8900	Medical Humanities and Human Values
MEL 8901	Selected Topics Such as Aging, Global Concerns, and Disabilities
MEL 8902	Medicine and the Arts: NYC Voices and Visions

### ***Nephrology and Hypertension***

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MEL 7313	Clinical Nephrology
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### ***Pulmonary, Critical Care, and Sleep Medicine***

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MEL 8340	Pulmonary Disease
MEL 8354	Pulmonary and Critical Care Medicine - Bay Pines

### ***Rheumatology***

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MEL 8339	Rheumatology Clinical Elective
MEL 8377	Rheumatology Clinical Research Elective

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

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**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 8315 Clinical Allergy/Immunology**

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Dr. Lockey and Allergy/Immunology Faculty

Allergic and immunologic problems affect up to 20% of adults and children in the United States, therefore, students rotating in Allergy and Immunology are exposed to a variety of common problems important to physicians regardless of their specialty interests. Both children and adults are seen in the clinics. The objective of the Allergy/Immunology experience is to familiarize the student with the pathogenesis, diagnosis, and treatment of various allergic and immunologic diseases. The student will examine patients with common medical diseases such as allergic rhinoconjunctivitis, chronic rhinitis, acute and chronic sinusitis, various forms of asthma, otitis media with effusion, hypersensitivity pneumonitis, atopic eczema, contact dermatitis, urticaria and/or angioedema, drug allergy, insect hypersensitivity, and food allergy. The student will also examine patients with immunodeficiency diseases (including HIV infection), eosinophilia, eosinophilic syndromes, and various other immunologic problems.

The student will be involved in in-patient and out-patient care at the VA Hospital, Tampa General Hospital, H. Lee Moffitt Cancer Center, All Children's Hospital, USF Adult and Pediatric Allergy/Immunology and Immunodeficiency Clinics and private physicians' offices and will attend several weekly conferences on basic immunology and clinical allergy and immunology given by residents, fellows and faculty from USF College of Medicine.

**Evaluation**

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Evaluations will be completed by the faculty members who assess the level of clinical competence attained.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at T-VAH; 1 at CCF

**MEL 8376 Respiratory Disease Research**

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Drs. Mohapatra, Bentley, Jena, Kong, and Zhang

Allergic and immunologic problems affect up to 20% of adults and children in the United States, therefore students rotating in Allergy and Immunology are exposed to a variety of common problems important to physicians regardless of their specialty interests. Both children and adults are seen in the clinics. The objectives of the respiratory disease research experience at the Joy McCann Culverhouse Airway Disease Center are to familiarize the student with some of the contemporary research methods relating to pathogenesis, diagnosis, and treatment of various allergic and immunologic diseases. The student will participate in hands-on research in relation to common medical diseases such as allergic rhinoconjunctivitis, chronic rhinitis, acute and chronic sinusitis, various forms of asthma, otitis media with effusion, hypersensitivity pneumonitis, atopic eczema, contact dermatitis, urticaria and/or angioedema, drug allergy, insect hypersensitivity, food allergy, and respiratory infections. The student will learn some of the common methods used for diagnosis of human diseases.

The student will attend several weekly conferences on basic immunology and clinical allergy and immunology given by residents, fellows and faculty from USF College of Medicine. The student will present a synopsis of his/her work in the last week of his training.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Evaluation

The faculty members and staff associated with the training program will assess the level of competence and will complete evaluations.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Availability: 1 at TVAH

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

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### ***Division of Cardiovascular Disease***

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#### **MEL 7303 Consultative Cardiology**

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Dr. Curtis and Faculty

This elective offers an opportunity to develop skills in the evaluation of patients referred for cardiology consultation at the VA and Tampa General Hospital. The students will participate in the evaluation of patients referred for cardiology consultation and will assist with the integration of the general medical data base with data gathered by both noninvasive (electrocardiography, ambulatory electrocardiography, stress testing) and invasive hemodynamic techniques, where indicated. This course allows the student to interpret a large number of electrocardiograms under the supervision of the attending staff. Staff attending review will provide individual instruction. Attendance at various other weekly Cardiology Division teaching conferences is required.

## Evaluation

The faculty will make performance evaluations from data derived from clinical discussions and didactic presentations by the student.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at T-VAH; 2 at TGH

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#### **MEL 8351 Harvey Elective in Cardiology**

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Dr. Reddy and Staff

The major objective of this elective will be to teach the student to perform comprehensive cardiac assessment, emphasizing the physical examination. The course will utilize Harvey (the teaching manikin) and actual patients. There will be both self-study (utilizing Harvey) and faculty instruction. Time will also be devoted to acquiring fundamentals of ECG interpretation and exposure to utilization of exercise testing, echocardiography and cardiac catheterization. Attendance at cardiology teaching conferences is required.

Course objectives will be assessed by a written and practical examination at its conclusion.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 x 5 o 6 x 7 x 8 x 9 o 10 x 11 x

Availability: 5 at USF-MS

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### ***Division of Emergency Medicine***

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#### **MEL 7320-Q Externship in Emergency Medicine**

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This elective in Emergency Medicine provides the student with further training in an "off campus" setting in the form of an approved extramural elective. This application must be approved and signed by Dr. Kevin O'Brien as the designee of the Department of Internal Medicine.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

#### **MEL 8347 Adult Emergency Medicine**

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Dr. Tracy Sanson

This elective integrates clinical skills and evidence-based medicine through didactic lectures, observation, performance of clinical procedures, hands-on clinical experiences, and direct interaction with faculty, individual patients, and families. Students will manage the patient using the "team approach," which involves EMTs, nurses, physicians, and students. They are expected to evaluate patients, address their presenting complaints, initiate workups, and provide definitive therapies.

This rotation will enrich students' knowledge, help them develop history-taking ability, physical skill assessment, and diagnostic and management skills, as well as help them develop a caring, compassionate, and empathetic attitude in dealing with patients and their families.

The student's grade is based on daily evaluations, quality case presentations, attendance at emergency medicine conferences, and an end of rotation examination.

The USF Emergency Medicine program also offers an Emergency Medicine elective in India. The student will work under the direct supervision of a mentoring faculty member. Various clinical sites from inner city to rural hospitals are available including:

Medical College and SSG Hospital in Vadodara, Gujarat  
All India Institute of Medical Sciences, New Dehli  
Railway Emergency Medicine and LTMC Trauma Center, Mumbai  
50-bed charity hospital serving 100,000 villagers in Gujarat

Emergency medical insurance is required for all electives abroad. Contact Dr. Tracy Sanson at (813) 627-5931 prior to scheduling this elective in India.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 6 at TGH; by special arrangement at EXT

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### **MEL 9999Q Independent Study in Emergency Medicine**

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Dr. Tracy Sanson

The purpose of this elective is to provide students the flexibility of pursuing creative scholarly projects/research under the direct supervision of a mentoring faculty member. It is expected that clear goals and objectives will be established in advance of requesting approval from the department to register.

In order to register for this elective, an Independent Study Application **MUST** have signatures of **BOTH** the elective faculty preceptor and Director of Students Program, Department of Internal Medicine. This form can be obtained from the Registrar's office.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No limit at USF-MS

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### **MEL 8368 Emergency Medicine Outside the Hospital**

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Dr. Carrubba

The purpose of this elective is to give the student a broad exposure to the scope of pre-hospital emergency medical services.

#### Objectives

1. Gain an understanding of pre-hospital patient care by rotation with the Tampa Fire Rescue Department and Aeromed at Tampa General Hospital
2. Learn to manage common toxicological problems by rotation in the Florida Poison Control Center at Tampa General Hospital
3. Be exposed to EMS Administration by accompanying the medical director of Tampa Fire and Aeromed during administrative duties
4. Gain an understanding of resource allocation and pre-arrival instruction initiatives by rotation at Signal One Fire and Rescue Dispatch

Time spent in these various areas will depend on the interests and experience of the student participating. A maximum of two students will be accommodated in each rotational block.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 7305 Clinical Endocrinology and Metabolism**

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Dr. Morrison and Faculty

Upon the completion of this elective, the student should understand how to manage patients who have a variety of endocrinologic and metabolic diseases. Students will see in-house consultations at the VA, Tampa General, and H. Lee Moffitt hospitals; attend daily work rounds; endocrine teaching rounds; weekly endocrine conferences; and outpatient endocrine-metabolic clinics at the VA Hospital, Tampa General Hospital, and USF Medical Clinics. The student will directly participate in the performance of detailed endocrine tests to better understand their application and interpretation. The student will participate in seminar discussions of clinically important subjects. Informal meetings between students and senior staff members will be conducted on a regular basis to assure that the student fully understands the pathogenesis, diagnosis and treatment of endocrine-metabolic disorders (pituitary, thyroid, parathyroid, adrenal, gonadal, diabetic, etc.).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at USF-MS; 1 at CCF

**MEL 8350 Clinical Endocrinology and Metabolism: Bay Pines**

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Dr. Robert Brickner and Faculty

Upon the completion of this elective, the student should understand how to manage patients who have a variety of endocrinologic and metabolic diseases. Students will see all in-house endocrine problems at the Bay Pines Veterans Administration Hospital and attend daily working rounds, endocrine teaching rounds, endocrine conferences and clinics. The student will directly participate in the performance of detailed endocrine tests (insulin tolerance test for hypopituitarism, calcium infusion tests, metapyrone tests, ACTH stimulation tests, etc.) so that he/she will understand their application and interpretation. He/She will participate in seminar discussions of clinically important subjects. Informal meetings between students and senior staff members will be conducted on a regular basis so that the student fully understands the pathogenesis, diagnosis and treatment of endocrine-metabolic disorders (pituitary, thyroid, parathyroid, adrenal, gonadal, diabetes, etc.).

**Evaluation**

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Faculty will evaluate students based on clinical discussions and didactic sessions.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at BP-VAH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

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**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 7306 Gastroenterology Elective**

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Dr. Brady and Faculty

Upon successful completion of this elective, the student may expect to achieve an acceptable level of competence in the management of disorders of the gastrointestinal tract and liver. This will be achieved by the interpretation of symptoms and physical findings, utilization of appropriate laboratory and other diagnostic studies, knowledge of the basic therapeutic approaches, and interpretation of the gastrointestinal radiographs and other imaging techniques. There will be a combination of direct patient contact and personal instruction. Observation of a variety of procedures including diagnostic and therapeutic upper GI panendoscopy, capsule endoscopy, (colonoscopy, polypectomy, diagnostic and therapeutic ERCP, flexible sigmoidoscopy, esophageal dilation and manometry studies will be afforded. Hands-on experience in capsule endoscopy is available. Attendance at ward and teaching rounds, outpatient clinics and teaching conferences will provide a further source of learning. Emphasis will be placed on pathophysiology, clinical manifestations, diagnosis and therapy. Emphasis will also be placed on the techniques of clinical nutrition. Students can participate in a short research project during the rotation or may elect to begin participation in a long term research project. Students can elect assignment to Tampa General Hospital, the Veterans Administration Hospital, or the USF Medical Clinics. Students will participate in a regularly scheduled conferences and clinics

**Evaluation**

The faculty will base their performance evaluations upon clinical discussions and didactic presentations by the student.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH; 1 at T-VAH; 2 at USF-MC

**MEL 8318 Esophageal and Swallowing Disorders**

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Drs. David Estores, H. Worth Boyce

The prospective student should contact Dr. D. Estores ([destores@health.usf.edu](mailto:destores@health.usf.edu)) at least 2 months before the start of the rotation.

This course will familiarize and engage the senior medical student in the evaluation and management of complex patients referred to a tertiary care center. The student will be involved in the different aspects of patient care including: history taking and physical examination; diagnostic approach and planning for therapy; observation and participation in oropharyngeal, voice and esophageal function testing and basic interpretation of the studies. The senior medical student will be given ample time for observing specialized procedures (including endoscopy) and ample opportunity to longitudinally follow patients they have initially seen for evaluation. They will work closely with the nurses, patient care coordinators, speech pathologist, and physician members of the team.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Objectives

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1. Review and apply basic scientific principles, pathophysiology, clinical laboratory methods, radiology examinations and cognitive skills as they relate to the diagnosis and treatment of esophageal and swallowing disorders
2. Familiarize the senior medical student with certain procedures most commonly performed during the evaluation and therapy for these disorders (general indications for the procedure, major risks, observation of actual endoscopy being performed) which include: Fiberoptic Endoscopic Evaluation of Swallowing (FEES), Dynamic Video Esophagram (DVE), videostroboscopy, barium esophagram with meal challenges, upper endoscopy or esophagogastroduodenoscopy (EGD), esophageal manometry, combined manometry-fluoroscopy (manofluoroscopy), and 24 ambulatory esophageal pH studies
  - a. Understand the general indications for the procedure
  - b. Risks of the procedure
  - c. Observation of the actual procedure being performed
  - d. Discussion of the basic interpretation of the procedures
  - e. Discussion of the impact of test results on the therapeutic plan
3. Reinforce a critical approach to the medical literature
4. Expose the senior medical student to evaluation and management of a wide variety of esophageal and swallowing disorders including basic evaluation and treatment of oropharyngeal dysfunction
5. Familiarize the medical student with a multi-disciplinary approach to evaluation and management of complex esophageal and swallowing disorders (“center” model)

## Learning outcomes

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At the end of the rotation the senior medical student is expected to:

1. Become familiar with the diagnostic approach and treatment options for dysphagia, voice disorders, gastroesophageal reflux and noncardiac chest pain
2. Follow several patients from initial evaluation until they have received therapy or completed the diagnostic work-up
3. Become familiar with certain procedures commonly performed during evaluation and therapy for esophageal swallowing disorders and voice disorders
4. Become familiar with a “center” approach to complex medical problems and understand the interaction between the different members of the team

## Evaluation

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1. The medical student will receive a written evaluation at the end of the month. This will be reviewed with the student by the faculty evaluator.
2. A written self-assessment examination may be administered to the medical student at the start and at the end of the rotation.
3. Two written patient history and physical assessments performed by the medical student will be reviewed.
4. Faculty performance will be evaluated by the medical student (anonymously submitted to the center director).
5. Credit will be given for exceptional performance.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 x 2 x 3 o 4 o 5 o 6 o 7 x 8 o 9 o 10 o 11 o

Availability: 2 at USF-MC

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 8390 Hepatology Elective**

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Dr. William Boyd and Faculty

Upon successful completion of this elective, the student may expect to achieve an acceptable level of competence in the management of common and uncommon disorders of the liver, and the management of patients with end stage liver disease. In addition, there will be exposure to the management of liver transplant patients. This will be achieved by the interpretation of symptoms and physical findings, utilization of appropriate laboratory and radiological investigations, and review of pathologic material. Patients are seen at the James A. Haley VA.

Students will participate at scheduled conferences, and may optionally be asked to present at a conference. The opportunity for a short research project will also be available.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at T-VAH

### ***Division of General Internal Medicine***

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## **MEL 7121 Hospital Medicine and Patient Safety Elective**

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Dr. Alexander Reiss

This rotation at the VA Hospital is designed to further the fourth year medical student's education in internal medicine and examine the topics of patient safety and preventable medical errors. During the month, the student will provide hospitalist care for a limited number of inpatients admitted to the general medical wards under the direct mentorship of VA medicine attendings, simulating the role of private hospitalist physicians. There is no call or weekend work. Integrated into the clinical duties is a curriculum focused on medical errors and patient safety. It includes didactic sessions, practical exercises in identifying engineering hazards, and safety workshops. In 1999, The Institute of Medicine published *To Err Is Human: Building a Safer Health System* asserting a sobering statistic: tens of thousands of patients die each year in the U.S. from medical errors. Since that landmark publication, the concepts of medical errors and patient safety have surged into the spotlight of the media, the public, and policymakers. This rotation creates a new framework for students/physicians to consider patient safety and prevention of medical errors while advancing the internal medicine skills of the student, preparing them for internship.

### Objectives

1. Further the student's education of internal medicine
2. Expose the student to the concepts of patient safety and preventable medical errors
3. Introduce the student to hospitalist medicine
4. Explore the "systems" approach to medical errors
5. Understand human factor engineering in the medical environment
6. Participate in root cause analysis process

### Learning outcomes

1. Gain understanding of Hospitalist medicine concepts
2. Understand human factor engineering and cite specific patient care examples

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

3. Manage patients in the capacity of an acting intern during business hours, answering pages, writing orders and notes, and admitting and discharging them
4. Participate in root cause analyses if opportunity is available
5. Attend learning conferences with the housestaff
6. Present a morning report or noon conference on patient safety
7. Understand the "system" approach to medical errors and contrast that with the "blame" system

#### Evaluation

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Supervising attending evaluations, completion of skills modules, quiz scores, presentation evaluations, etc.

This elective is not available to visiting students.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at T-VAH

#### **MEL 7320M Externship in Medicine**

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This externship in Internal Medicine provides the student with further training in an "off campus" setting in the form of an approved extramural elective. This application must be approved and signed by Dr. Kevin O'Brien as the designee of the Department of Internal Medicine.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11x

Availability: No Limit at EXT

#### **MEL 8332 Elective in Rural Medicine (AHEC)**

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Faculty and Staff at Health Resource Alliance (Pasco), Suncoast Community Health Centers (Hillsborough), DeSoto Memorial Hospital (Arcadia), or other rural sites

This elective is designed to introduce senior students to the practice of medicine in a rural community. Under the supervision of clinical faculty, students will have the opportunity to practice in a private office or in a community/migrant health center. Students will also round with the preceptor in the hospital. This elective will provide students with a better understanding of rural medicine and the tremendous health needs of underserved rural and migrant populations. Housing will be provided for students at DeSoto Memorial Hospital. Gulfcoast South AHEC will provide students with a fixed travel reimbursement.

#### Objectives

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1. Compare and contrast the health needs and problems encountered in rural practice to those encountered in prior urban rotations
2. Identify the unique opportunities and challenges to medical practice and life in a rural area
3. Introduce/sensitize the student to cross-cultural issues in health care

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

4. Understand mechanisms and indications for consultation and referral in rural practice
5. Evaluate the business management of rural practice including availability of organized funding for patient care, managed care, etc.

### Evaluation

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The clinical faculty will evaluate the progress and performance of the student in the clinical setting(s).

This elective must be scheduled through Dr. Selleck from the AHEC office. Final arrangements for the elective must be made through the Dr. Selleck in conjunction with Gulfcoast North or Gulfcoast South AHEC.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 per site

### **MEL 8334    Acting Medicine Internship**

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General Internal Medicine Faculty

The student will function as acting or "early" intern on a general ward team at either Tampa General Hospital or Tampa VA Hospital. He/She will be given the full range of clinical duties and responsibilities usually assigned to a first year house officer. The senior house officer and the attending will closely supervise these clinical responsibilities. The level of responsibility is distinctly above that of the third year clerkship rotation. The elective will afford the participating student an in-depth inpatient experience in total patient management so that he/she may confidently assume such care in the first postgraduate year regardless of the career choice.

Attendance will be required at Morning Conference, in-hospital teaching conferences, and Grand Rounds. The student will perform history and physical examinations, write all progress notes, and all orders for therapeutic and diagnostic intervention with counter-signature. Night call will be taken on the schedule assigned to the team.

Length: 4 weeks      Time(s): Full Time      Hours: 64 per week

Months: 1 o 2 o 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 5 at TGH; 5 at TVAH; 1 at MCC

### **MEL 8335    General Internal Medicine Consult Service**

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General Internal Medicine Faculty

This course offers the opportunity to participate in the major practice activities of the general internist. The student will be a member of the general internal medicine consultation team at one of the hospitals. The consultation team evaluates and treats medical problems of patients on other services and participates in the perioperative care of surgical patients.

The student will also participate in the USF Medical Clinics practice of faculty preceptor. Finally, a literature search and written review of a topic relevant to internal medicine will be encouraged.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 to 8 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TVA; 1 at TGH

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### **MEL 8342    Acting Medicine Internship: ORHS**

ORHS and Faculty

The student will function as an acting or early intern on a general ward team. He/She will be given the full range of clinical duties and responsibilities usually assigned to a first year house officer. The rotation, however, will be under the close supervision of the senior house officer, the attending, chief resident, and the chief of service. The level of responsibility is distinctly above that of the third year clerkship rotation. The elective will afford the participating student an in-depth inpatient experience in total patient management so that he/she may confidently assume such care in the first postgraduate year regardless of the career choice.

Attendance will be required at the in-hospital teaching conferences and rounds. The student will perform history and physical examinations, write all progress notes, and all orders for therapeutic and diagnostic intervention with counter-signature. Night call will be taken on the schedule assigned to the team.

**This elective must be scheduled through the Registrar's Office.** Final arrangements concerning the course location/preceptor will be made by the Office of Medical Education, Orlando Regional Healthcare System, 86 West Underwood Street, Orlando, FL 32806-2093, (407) 841-5243 after the student receives his/her elective choice.

Length: 4 weeks    Time(s): Full Time    Hours: 64 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ORHS

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### **MEL 8349    Medicine Acting Internship: Bay Pines**

Dr. Alvin Haynes and Internal Medicine Faculty

The student will function as acting or "early" intern on a general ward team at the Bay Pines Veterans Administration Hospital. He/she will be given the full range of clinical duties and responsibilities usually assigned to a first year house officer. The rotation will be under the close supervision of the chief of service and full time faculty. The level of responsibility is distinctly above that of the third year clerkship rotation. The elective will afford the participating student an in-depth inpatient experience in total patient management so that he/she may confidently assume such care in the first postgraduate year regardless of the career choice. Attendance will be required at Morning Conference, in-hospital teaching conferences, and Grand Rounds. The student will perform history and physical examinations, write all progress notes, and all orders for therapeutic and diagnostic intervention with counter-signature. Night call until 10:00 p.m. will be every 4th day.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 48 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 4 at BP-VAH

### **MEL 8360 Primary Care in a Group Practice**

Dr. Walter Brander

This rotation is designed to provide a unique practice experience in a full-service, freestanding ambulatory care clinic. The Fort Myers VA Outpatient Clinic, 130 miles removed from a VA Hospital, provides a milieu similar to multi-specialty group practice in the private sector. The patient population presents a wide variety of acute and chronic illnesses and is comparable to that seen in private practice by a primary care physician. In a tutorial relationship with experienced clinicians, the student will perform brief histories and physical examinations and participate in planning diagnostic studies and in making therapeutic decisions. Students will also interact with the staff as they follow patients with scheduled appointments. Sigmoidoscopy will be taught to all.

Clinic hours are 8:00 A.M. through 4:30 P.M., Monday through Friday. The Clinic is 15 miles northeast of Sanibel Island and Ft. Myers Beach.

For more information, please contact Fran Peterman at 239-939-3939 (ext 6310) or 2070 Carrell Rd., Fort Myers, FL 33901.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at FMVAH

### **MEL 8953 Integrative Clinical Skills**

Drs. Mai, Flannery, Edwards, Humphrey, and Kamath

This elective offers the fourth year medical student a review of pertinent skills for a smoother transition to internship. The course will predominantly consist of case based conferences which will be a review such topics as writing orders, common overnight call issues, common procedures, reading EKG, CXR, and ABGs, electrolyte abnormalities, ACLS protocol, the role of the resident as an educator and evaluator, tips for improving patient and family communication, review of advance directives and the utilization of other resources. Students will be required to shadow the cross cover resident during the work week twice during the month. Attendance to various internal medicine conferences (morning report and noon conference) is optional.

#### Objectives

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1. Diagnose and treat common overnight call issues
2. Practice and learn common bedside medical procedures
3. Improve teaching skills to be a better educator
4. Improve communication skills specifically delivering bad news
5. Familiarize yourself with ancillary medical services in the hospital/community and how these services can improve patient care
6. Learn skills to improve balancing the rigors of residency with personal/social endeavors

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Learning Outcomes

At the end of the month, students should feel more comfortable with the skills that will make their transition to residency smoother and to maximize the learning environment in residency.

## Evaluation

Students will be evaluated on attendance, participation in case based conferences, involvement in cross cover calls, and an end of the month presentation.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Availability: 12 at TGH

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## MEL 9940 Honors Acting Internship Program in Internal Medicine

Dr. Kevin O'Brien and Attending Faculty

## Objectives

The Honors Program curriculum includes three basic components:

1. Direct patient care responsibilities (AI at TGH or VA)
2. A creative scholarly project
3. Participation in an afternoon Honors AI report on Friday during the rotation

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 o 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 x

Availability: 10 Students per block

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## MEL 9999M Independent Study in Medicine

General Internal Medicine Faculty

The purpose of this elective is to provide students the flexibility of pursuing creative scholarly projects/research under the direct supervision of a mentoring faculty member. It is expected that clear goals and objectives will be established in advance of requesting approval from the department to register.

In order to register for this elective, an Independent Study Application MUST have signatures of BOTH the elective faculty preceptor and Director of Students Program, Department of Internal Medicine. This form can be obtained from the Registrar's office.

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 8312 Primary Care of the Elderly**

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Geriatrics Faculty

Objectives

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1. Provide the student with experience in the management of health problems of the elderly in outpatient clinics, home, and long term care sites
2. Teach the management of the common diseases and disorders of older patients in these settings
3. Offer experience in participation as the medical member of the interdisciplinary teams in operation at the clinical sites

The student will work with older patients in the outpatient clinics, make home visits through the Hospital Based Home Care Program of the VA, visit terminal patients through the Hospice Program and VA nursing home, and care for frail older people living in nursing homes in the community and at the VA Hospital. The physicians and fellows of the Division of Geriatric Medicine will supervise the student in these activities. A didactic portion will provide materials and instruction (regular lectures) in the common health problems of older patients.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MC

**MEL 8372 Introduction to Palliative Medicine**

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Dr. Vincent Perron and Faculty

Objectives

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1. Provide experience in the management of pain and other distressing symptoms
2. Become proficient in assessing multiple causes of suffering in and providing comfort for patients with advanced chronic disease and/or near the end of life
3. Learn effective communication with patients and families and how to deliver bad news
4. Become familiar with the ethical issues involved in the care of patients with advanced chronic and/or life-limiting illnesses
5. Work as a part of an interdisciplinary team in the provision of palliative care for patients with advanced chronic and/or life-limiting illnesses

The goal of this course is to have students gain experience in and develop comfort as practitioners of palliative medicine. Students will work with faculty and other interdisciplinary team members in multiple settings (home care, hospice care, outpatient clinic, inpatient unit) and gain an understanding of the multiple issues involved in the care of patients with advanced chronic and/or life-limiting illnesses. Students should gain comfort with the provision of appropriate palliative interventions for patients with life-limiting illnesses, effective interactions with dying patients and their families, and full collaboration with other health care professionals to ensure patients receive comprehensive care to relieve their suffering.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

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***Division of Hematology and Medical Oncology***

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**MEL 8308    Ambulatory Hematology-Oncology**

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Dr. Zuckerman and Faculty

The objective of this elective is to provide the student with a basic understanding of the principles of medical management evaluation and management of hematologic and cancer-related problems in the outpatient setting. Students will participate with hematology/oncology fellows and faculty members in the care of patients seen at the H. L. Moffitt Cancer Center James A. Haley VA Medical Center, Tampa General Hospital and/or University of South Florida. There will be scheduled conference activities in which the student will participate. The student will see approximately 10 -12 established and 3-5 new patients per week. The student will be required to present and discuss, in depth, patient evaluation and management issues The student will be evaluated on the basis of the adequacy of patient evaluation and case presentations.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at MCC

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**MEL 8309    Inpatient Hematology**

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Dr. Zuckerman and Faculty

The objective of this elective is to attain a solid understanding of the pathophysiology, clinical manifestations, diagnostic studies and management of malignant hematological disorders, hematologic complications of malignant diseases, and hematologic consequences of cancer chemotherapy. The student will serve as an acting intern on the inpatient hematology service and will have extensive contact with the attendings of the division who will provide the basic tutorial supervision in the Hematology Conferences. The students will be required to participate in teaching and patient care rounds, special patient care conferences, and scheduled hematology/oncology-related teaching conferences. The students also will be introduced and exposed to the specialized research projects occurring in the division as well as to the special laboratory evaluation procedures used in hematology. The students will be expected to prepare a literature review on a specified topic for presentation. The faculty will complete performance evaluations based on the clinical discussions and didactic presentations by the student and on the performance of the student in patient care-related activities

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at MCC

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 8345 Inpatient Medical Oncology

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Dr. Zuckerman and Faculty

Upon the completion of this elective, the student should understand the principles of diagnosis and management of a segment of patients with malignant disease who require hospitalization, including diagnostic studies, management of all stages of malignant diseases, diagnosis and management of complication of cancer and cancer chemotherapy, palliative care of cancer patients, and end-of-life care. The student will serve as an acting intern on the Medical Oncology Inpatient Service at the H. Lee Moffitt Cancer Center. The student will participate with residents and fellows in the primary care of cancer patients. Participation in daily teaching and work rounds, cancer patient care conferences, and other scheduled teaching conference is required. The student will be expected to prepare a literature review on a specified topic for presentation. In addition, the student's performance in patient management will be evaluated in writing by the involved faculty, fellows, and residents.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at MCC

## MEL 8366 Adult Bone Marrow Transplantation

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Dr. Vincent Anasetti and Faculty

### Goals

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At the completion of this elective the student should:

1. Have an understanding of the process of bone marrow transplantation and the associated immunobiology of immune recovery after ablative therapy and stem cell infusion
2. Identify the different types of transplantation (syngeneic, allogeneic, and autologous) and the diseases in which each type of transplantation may play a role in therapy
3. Identify common problems related to marrow transplantation such as cytopenias; infectious complications; nutrition and electrolyte imbalance; renal, cardiac, and pulmonary insufficiencies; graft vs. host disease; as well as outline current medical means to support patients until marrow and immune recovery

### Methods

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The student will assist hematology/oncology fellows in the primary care of patients undergoing high dose ablative therapy and bone marrow transplantation while receiving treatment in the Bone Marrow Transplant Unit at the H. Lee Moffitt Cancer Center and Research Institute. The student will be expected to attend daily teaching and work rounds, as well as teaching and research conferences. The student's ability to perform and present thorough histories and physical exams will be evaluated. The student's verbal and written patient progress reports will also be evaluated daily at morning rounds. Faculty will monitor student progress and give ongoing feedback throughout the elective. No written examination will be given although an evaluation of the student's performance will be available at the end of each rotation.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at MCC

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 7310 Infectious Diseases and International Medicine**

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Dr. Sinnott and Faculty

Objectives

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1. Provide fundamental information concerning techniques employed in diagnosing infectious diseases
2. Obtain an appreciation for the natural history of infectious disease so as to better understand whether therapy is affecting the course of disease in a given patient
3. Comprehend the process of selection of appropriate anti-microbial therapy

Methods

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The clinical rotations conducted at Tampa General Hospital, Tampa VA Hospital, and H. Lee Moffitt Cancer Center are structured to permit students to function, with guidance by advanced subspecialty residents and attending physicians, as consultants in infectious disease. In addition to participation in bedside consultative evaluation of patients and the presentation of findings on daily teaching rounds, students are required to employ standard textbooks, contemporary literature and laboratory data in an organized fashion to arrive at "best fit" diagnoses. Progress of patients will be assessed and recorded daily. Fellows and attendings will provide regular didactic teaching, and students will participate in the teaching activity by preparing and presenting a comprehensive review of an important clinical topic in infectious diseases for a Division Conference. The student's progress during the elective will be monitored during daily teaching rounds by the attending faculty.

Evaluation

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Midway through the elective a formal evaluation process results in generation of written comments that are communicated to the student so that he/she can appreciate how his/her performance has been to that point. Daily, critical review of presentation of patient data will be incorporated in teaching rounds to provide guidance for the student to strengthen skills in those areas.

Length: 4 to 8 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at TGH; 2 at T-VAH; 2 at MCC; 1 at CCF

**MEL 7314 Tropical Medicine and Public Health Abroad**

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Drs. John Greene and John Sinnott

This course offers an opportunity to practice health care in a foreign country with emphasis on tropical infectious diseases and epidemiology. An urban and rural hospital/clinic at a major medical school in Africa (Zimbabwe), India, or South America will be the location of the rotation. The student will learn to care for patients with acute and chronic parasitic and tropical bacterial and fungal infections as well as diseases common to all peoples. Interaction with the local clinicians will include joint lectures, direct supervised patient care, and observation of healthy and unhealthy behavior of the indigenous population. A USF faculty member with interest and expertise in tropical medicine or public health will provide the leadership and instruction for the group. At the end of the rotation, each participant will present a relevant topic concerning the diagnosis, treatment, or prevention of tropical diseases, or the epidemiology and control of major diseases of public health importance, and submit the report for publication.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Emergency medical insurance is required for all electives abroad.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 x

Availability: 2 at USF-MS

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### **MEL 8357 Infections in Transplant Medicine**

Dr. Montero

The goal of this course is the understanding of the pathophysiology diagnosis and treatment of infections and rejection in the transplant patient. Although Infectious Disease supervises the elective it will utilize teaching resources of other services. Thus, students interested in surgery would participate actively in cardiac surgery transplant activities while those interested in cardiology would have a chance to interact with cardiac transplant activities, and those interested in renal transplantation would interact with the renal transplant team on a structured format. All students on the transplant rotation will make rounds on a daily basis as well as attend cardiac and liver transplantation conferences. Direct patient care is optional.

Length: 4 weeks      Time(s): Full Time      Hours: 44+ per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 4 at TGH

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### **MEL 8361 Clinical Management of Sexually Transmitted Diseases**

Dr. Toney

This course is designed to enhance the student's knowledge and clinical management of diseases that may be transmitted by sexual routes. During the rotation, didactic teaching as well as clinical practicum experience will be provided. The didactic portion will include discussions of the whole spectrum of sexually transmitted diseases and their therapies. The student will participate in supervised patient care during the clinical practicum portion of the course. Practicum experience will consist of the participant developing and exercising his/her ability to interact appropriately with patients, obtain a thorough STD history, perform an appropriate physical examination on both male and female patients, collect and interpret lab specimens, choose appropriate therapy, employ appropriate patient management, and educate and refer appropriately. The laboratory practicum provides participants experience on the correct procedures for performing specimen preparation and stat laboratory tests used to help in the diagnosis of some STDs.

Performance will be evaluated based on participation in the didactic and practicum portions as well as an independent study project (to be designed by the course director and the student).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 8362 Infections in Cancer and Bone Marrow Transplant Patients**

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Dr. John Greene

An infectious disease approach to managing neutropenic patients, bone marrow transplant patients and patients with solid organ or hematologic cancers will be presented. The student will develop skills in managing patients with selected bacterial, fungal, and mycobacterial infections unique to this immuno-compromised population while working intimately with the microbiology lab. Appropriate use of antimicrobial agents including knowledge of therapeutic vs. toxic regimens will be emphasized. Also included will be critical care management of bone marrow transplant patients and other seriously ill cancer patients.

Midway through the elective a formal evaluation process results in the generation of written comments that are communicated to the student so that he/she can appreciate how his/her performance has been to that point. Daily, critical review of presentation of patient data will be incorporated into teaching rounds to provide guidance for the student to strengthen skills in those areas.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at MCC

## **MEL 8363 Infections in the Intensive Care Unit**

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Dr. Montero

The goal of the course is to learn to recognize, treat, and prevent infectious complications in the critically ill patient. The student will participate in the initial consultative evaluation and will follow-up patients in the various ICU's at Tampa General Hospital. This will include trauma, postoperative, medically ill, and burn patients. The student will attend weekly lectures and participate in daily critical care rounds. A practical approach to antibiotic choices and effective use of diagnostic studies will be stressed.

### Evaluation

The attending physicians will evaluate the student on a daily basis.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

## **MEL 8371 Selected Topics of Infectious Disease**

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Dr. Sinnott and Faculty

Students may arrange for independent clinical research on topics relevant to a variety of infectious diseases. The supervising faculty member must approve, in conjunction with the student, the objective(s), activity involved, and study evaluation for the student's rotation period.

Relevant topics include, but are not limited to: infections in the elderly, infections in primary care, antibiotic

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

pharmacology and usage, HIV and related disorders, antimicrobial resistance, economics and infectious diseases, infections and the diabetic patient, or parasitology.

Students will rotate through both the Tampa VA Hospital and the USF Medical Clinic.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at USF-MS

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**MEL 8364 Clinical Epidemiology of Infectious Diseases**

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Dr. Montero

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**Objectives**

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1. Provide fundamental information regarding the epidemiology of infectious diseases
2. Gain an appreciation for the practice of epidemiology in the hospital setting in order to understand basic infection control measures
3. Initiate the student in the understanding of infection control issues in the hospital setting

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**Methods**

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This clinical rotation is conducted at Tampa General Hospital and is structured so that the student will function as a consultant, both in epidemiology and infectious diseases. Additionally, he/she will participate in bedside consultative evaluation of patients, infection control meetings, and investigation of contagious diseases outbreaks. The progress of the student during the rotation will be monitored during daily teaching rounds by the attendings.

Length: 4 to 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

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**MEL 8365 Outpatient Care of the HIV-Infected Patient**

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Drs. Holt and Somboonwit

This elective will provide the student with a broad overview of the care of HIV-infected patients in an outpatient setting. The student will attend HIV clinic at the Hillsborough County Health Department daily and will participate directly in the evaluation of clinic patients. The student will formulate a plan of care for patients and present the plan to the attending physician. The problems encountered in clinic will be used to illustrate the principles of outpatient HIV care. In addition, the student will attend weekly lectures in which common opportunistic infections and HIV therapeutics will be discussed. The student will also have the option of spending some afternoons rounding on clinic patients who have been hospitalized at Tampa General Hospital, and may observe the HIV Clinical Research Division.

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**Evaluation**

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The student's evaluation will be based on daily contributions during clinic and participation in weekly lectures.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at HCHD

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***Division of Medical Ethics and Humanities and Palliative Medicine***

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**MEL 8330 Social Problems in Medicine**

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Dr. Lois Nixon

The course involves an examination of cultural factors in the analysis of social problems in medicine as expressed in film, art, and literature. Focus is on the poor, racial minorities, women, homosexuals, the elderly, etc. Essentially the course focuses on nuances and complexities of the human condition. If attendance is a problem, students should not register for this course.

Topics that might be studied include:

1. Disability
2. Sociocultural barriers: language barriers, prejudice, cultural differences, gender issues and concerns
3. Policy issues for the physician: our national medical priorities (specialization vs. primary care, preventive vs. tertiary), abortion, sex education, health care reform, managed care, etc. Where appropriate, field experience will be arranged.
4. Aging
5. Emerging voices: other perceptions, other stories

Each student will be assigned to do specific reading assignments and several written responses to the fiction. In addition, elective groups will explore the course theme further by visiting special classes on main campus, going to see related exhibits at museums, and attending films (commercial or VCR). The course is interdisciplinary and requires completion of all assignments and thoughtful discussion.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Availability: No limit at USF-MS

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**MEL 8900 Medical Humanities and Human Values**

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Dr. Lois Nixon

Students may arrange for independent study on topics relevant to human values in medicine. The faculty member who will supervise the study must approve a plan for such study. The plan will indicate the objectives of the study, the activities to be undertaken in pursuit of the objectives, and the means of evaluating the study.

Relevant topics include religion in medicine, medical ethics, legal aspects of medical ethics, clinical ethics research, communication in medicine, medicine and literature, the history and/or philosophy of science, medicine and social problems, creative writing, the impact of culture on medicine and health, and cross culture experience.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Faculty will assist students in locating appropriate faculty members to supervise their independent study.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Availability: No limit at USF-MS

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### **MEL 8901 Selected Topics Such as Aging, Global Concerns, and Disabilities**

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Dr. Lois Nixon

The object of this elective is to provide in-depth consideration of portrayals of aging and end-of-life issues using humanities tools. While students explore these issues in the medical text and in clinical experiences, this course provides very different perspectives that are intended to complement those experiences. Students choosing this course should expect to read four or more novels or plays, become familiar with several poems ranging from Alfred Tennyson to May Sarton and Donald Hall, view at least 4 full length films, and gather from the arts specific works dealing with the course topic.

Faculty from the College of Fine Arts will provide seminar leadership and students will be required to present assigned interpretations and critiques of works to fellow participants.

Length: 4 Weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Location: USF and South Tampa

For those enrolled in the **Masters Program in Bioethics and Medical Humanities**, the course will contain both on-line and traditional contact hour formats. The course is scheduled to allow for co-participation by Med IV and Masters students. The on-line class extends over a 3-month period while the Med IV class adheres to the

traditional one-month format. Students in the MBMH program must meet with Dr. Nixon in December to seek approval and work out a suitable schedule.

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### **MEL 8902 Medicine and the Arts: NYC Voices and Visions**

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Dr. L. Nixon

Students must commit to this course by emailing [kbrown2@health.usf.edu](mailto:kbrown2@health.usf.edu) no later than October 1<sup>st</sup>.

This month-long course is designed to introduce students to a broad examination of visions and voices occurring in various forms of the arts. Unlike most basic science classes, courses, and medical school tests, materials selected for this course emphasize the telling of a story from non-scientific, non-objective perspectives. Artists and writers have always been the record keepers of their society; separately and collectively they present unknowable, imprecise, and slippery aspects of humanity that can not be defined easily or measured with certainty.

Just as Steinbeck's classic novel, *Grapes of Wrath*, generated a broader awareness to the plight of migrants and poverty and the recent play, *Wit*, portrayed subjective insights to dying in a hospital setting, the assignments in

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

this course employ a humanistic lens to reveal aspects of issues confronting individuals and/or groups in contemporary society.

Students will have first-hand experiences with theatre, music, historical markers, available writers, art film selections, as well as docent-led museum visits and special lectures. Alzheimer's disease, aging concerns, depression, and gender perspectives are among the topics addressed in our assignments and seminars.

**Upon completion, students will be able to understand and articulate the following:**

1. Recognize and identify specific representations from the arts that extend and illuminate ranges of illness and suffering.
2. Evaluate the reasons for the production of specific works for today's audience as well as the effect it is likely to produce. Consider how these works complement the medical text or reveal that which is illusive. How might paintings by Hopper, for example, describe individual and social elements affecting patients and their families or circumstances, and what does a play such as *Rent* or *Night Mother* contribute to our understanding of human condition.
3. Understand how catastrophic events (911) are responded to and interpreted by writers and artists
4. Consider the historical place of Bellevue Hospital in medical history. Meet with the Bellevue Literary Review Editor.
5. Experience a full day of programming by faculty at the NYU Medical School. Hands-on experience provided for the NYU Literature/Medicine DataBase.

**Optional one night excursion to Philadelphia**

Note: Med IV Students and MBMH students will be admitted to this course.

Three weeks of course time occurs at USF, one week occurs in NYC. Students are responsible for all NYC expenses and travel arrangements.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 o 9 x 10 x 11 x

Availability: 6-20 at USFMS

***Division of Nephrology and Hypertension***

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**MEL 7313 Clinical Nephrology**

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Dr. Durr and Faculty

The objective of this elective is to expose the fourth year medical student to the broad general principles of Clinical Nephrology. In essence, the student will be an acting intern who will, in collaboration with the renal house staff and clinical fellows, participate in the care of patients with a variety of renal and hypertensive problems. Adequate exposure to renal patients is achieved through inpatient consultations in the affiliated institutions and outpatient consultations and follow-up in the renal clinics and dialysis centers. The performance of the history and physical examination, formulation of plans for diagnosis and management, and the writing of orders for care of the patient will be the responsibility of the student who will function under supervision of the Nephrology attendings and fellows. The student will be exposed to the practice of medicine on a broad interdisciplinary service that involves dietitians, social workers, clinical nurse specialists, as well as the attending staff.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 to 8 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at T-VAH; 1 at TGH

### ***Division of Pulmonary, Critical Care, and Sleep Medicine***

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#### **MEL 8340 Pulmonary Disease**

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Dr. Solomon and Faculty

#### Objectives

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The student at the completion of the elective should:

1. Be able to perform a history and physical examination as it relates to pulmonary disease
2. Know how to order and interpret basic laboratory tests such as chest X-rays, CT scans, arterial blood gases, and pulmonary function tests
3. Have an understanding of the common pulmonary disorders, including their diagnosis and treatment
4. Have a working knowledge of pulmonary physiology, especially as it relates to respiratory failure and the use of respiratory therapy (ventilators, oxygen, etc.)
5. Have a familiarity with a number of emergent conditions seen in the Medical Intensive Care Unit (Moffitt; not at T-VAH or TGH for this course)

#### Methods

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The student will receive training at one of our clinical institutions by evaluating patients, rounding with the consultation team, and participation in conferences. A didactic lecture series may also be given.

#### Evaluation

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The student will be evaluated on a daily and ongoing basis by the consult attending.

At TGH: The student will work as part of the pulmonary consult team. There is a separate MICU team at TGH so critical care medicine will not be a component of the TGH experience for this course.

At Moffitt: The experience combines pulmonary consultation and critical care.

At T-VAH: The student will work as part of the pulmonary consult team. There is a separate MICU team staffed by students participating in the senior clerkship. This site is therefore unavailable for a critical care rotation.

At Bay Pines: Students will be assigned to the Bay Pines VA Medical Center

Length: 4 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at T-VAH; 2 at TGH; 1 at MCC; 1 at CCF; 1 at BPVAH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 8354 Pulmonary and Critical Care Medicine: Bay Pines

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Dr. Anderson and Faculty

### Objectives

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The student at the completion of the elective should:

1. Have an understanding of common pulmonary disorders (including chronic obstructive pulmonary disease, respiratory failure, lung cancer, and pneumonia) and their diagnosis and treatment. Diagnostic modalities emphasized will include imaging (chest X-ray and CT), fiberoptic bronchoscopy, thoracentesis and pleural biopsy, Swan-Ganz catheterization, and pulmonary function testing
2. Have a working knowledge of pulmonary physiology and pathophysiology, especially as it relates to respiratory failure, and the use of respiratory therapy modalities including mechanical ventilation
3. Have a familiarity with a number of non-pulmonary emergent conditions seen in the Medical Intensive Care Unit, their evaluation, and treatment

### Methods

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The student will receive training on the Pulmonary and Critical Care Service at Bay Pines VA Medical Center. The student will be responsible for the evaluation of individual patients on the pulmonary service (Ward and ICU) and on the consultation service under the supervision of the full-time faculty. The student will participate in daily teaching rounds. The student will acquire clinical skills through actively assisting in various diagnostic procedures and interpretation of pulmonary function testing including exercise and sleep. The student will have direct daily contact with the faculty and will receive didactic instruction in the pathophysiology, diagnosis, and treatment of pulmonary disease. Time for participation in research projects ongoing on the pulmonary service or projects of the student's design may be available.

### Evaluation

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The attending physician will evaluate the student on a daily and ongoing basis. No examination will be given.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at BP-VAH

## ***Division of Rheumatology***

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### MEL 8339 Rheumatology Clinical Elective

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Drs. Joanne Valeriano-Marcet, John Carter, Priya Reddy, Frank Vasey, and Louis Ricca, Helen Bateman

Rheumatic diseases are complex multi-system diseases. All subspecialties and general internists need to be familiar with the clinical aspects of these diseases. Musculoskeletal complaints, including arthritis, low back pain, sprains, and strains, are the most common reasons for patients to consult their physicians. Our clinics have an excellent balance of both common and rare musculoskeletal rheumatic diseases.

### Objectives

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1. Be able to obtain history and perform the physical examination appropriate for rheumatic disease patients
2. Be able to order and interpret pertinent X-rays and laboratory studies

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

3. Gain an understanding of the pathogenesis, differential diagnosis, and treatment of musculoskeletal conditions

#### Methods

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The trainee will see patients at the VA and USF Clinics Medical Clinics and on the consultative services of Tampa General Hospital, Tampa VA Hospital or H. Lee Moffitt Cancer Center. Trainees will also participate in specialty conferences during their elective rotation. Upon completion of this elective, the trainee should understand the principles of diagnosis and management of patients who have rheumatic diseases.

#### Evaluation

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The trainee will work closely with the attending rheumatologist who will provide the assessment.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS; 1 at CCF

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### **MEL 8377 Rheumatology Research Elective**

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Dr. John Carter and Faculty

This elective will offer the student a chance to participate in rheumatology related clinical research. The Division of Rheumatology has an active Division of Clinical Research. The areas of research include rheumatoid arthritis, reactive arthritis, psoriatic arthritis, gout, and osteoporosis. The clinical trials involve industry sponsored, multi-center trial as well as investigator-initiated studies. **Additionally we have ongoing projects evaluating medical education and teaching.** Rheumatology's Division of Clinical Research includes two full-time faculty.

In this era of evidenced-based medicine, it is vital that the clinician be able to analyze the literature with a critical eye. By participating in clinical research, the student will build a foundation that will allow him/her to better interpret the medical literature. There is no more effective teaching tool in analyzing medical literature than if you have performed similar work yourself.

It is very difficult to perform any meaningful research in 4 weeks. It is impossible to conceptualize a medical hypothesis and carry it through to its end in such a short time span. To that end, students will assist with ongoing projects. This elective also contains a rheumatology clinical elective (MEL 8339) component. By combining the two 4-week electives, the student will have a chance to intermingle their rheumatology clinical experience with rheumatology clinical research. This will also allow a longer time frame to carry out their clinical research.

#### Evaluation

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Dr. Carter or the appropriate principal investigator will complete course evaluations at the end of the 8-week period.

Length: 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability 2 at USFMS and TVAH combined

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>BMS 7260</b>	<b>Research in Molecular Medicine</b>
<b>BMS 7262</b>	<b>Molecular Basis of Metabolic Regulation</b>
<b>BMS 7303</b>	<b>Clinical Microbiology and Immunology</b>
<b>BMS 7304</b>	<b>Review of Immune and Infectious Diseases</b>
<b>MEL 9999I</b>	<b>Independent Study in Molecular Medicine</b>

## **BMS 7260 Research in Molecular Medicine**

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### Faculty

The student will undertake a specific research project in collaboration with one of the faculty and will participate in research conferences and seminars. Current research areas include studies of the molecular basis for various disease states, such as cardiovascular disease, infectious disease, neurodegenerative disease; molecular virology; host-parasite interactions; molecular immunology; metabolic regulation; and molecular and cellular biology.

### Objective

The objective of this course is to introduce the student to modern methods and concepts of biomedical research.

### Evaluation

Evaluation of the student will be based on the mastery of a set of research techniques, the utilization of these to investigate a research problem and the collection, evaluation, and interpretation of these experimental findings.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 4 at USF-MS

## **BMS 7262 Molecular Basis of Metabolic Regulation**

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### Faculty

Emphasis will be on mammalian systems and alterations of metabolic control in diseases states. The course will consist of conferences based on current literature. Topics include: mechanism of hormone action, transcriptional control, translational control, protein modification, and allosteric regulation.

### Objective

The objective of the course is to acquaint the student with current concepts regarding the control of metabolism at the molecular level.

### Evaluation

Evaluation of the student will be based on the quality of the literature research of assigned topics, and the organization of the formal seminar.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 12 at USF-MS

### **BMS 7303 Clinical Microbiology and Immunology**

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Drs. Klein, Sandin, Widen, Burdash, and Lopez-Cepero

Introduction: This course will focus on an experiential approach to issues in clinical microbiology and immunology of relevance to the practicing physician. Laboratory issues will be covered that impact on the clinician in terms rapid diagnosis, assessment of patient progress, and determination of treatment efficacy for diseases including those of infectious as well as immunological etiology. The role of the physician and the clinical laboratory in terms of addressing the impact of agents of bioterrorism in terms of individual patients and public health will also be addressed. Assessment of understanding will be done by active participation as well as by written reports.

#### Objectives

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1. Provide opportunities for the student to go to immunology laboratories to learn about and participate in techniques involved with:
  - Organ transplantation
  - Determination of genetic risk factors for cancer
  - Early diagnosis of cancer
  - Assessment of efficacy of cancer chemotherapy
2. Provide opportunities for the student to go to bacteriology and virology laboratories to learn about and participate in techniques involved with:
  - Diagnosis of bacterial disease, fungal, and viral infections
  - Determination of treatment options for management of bacterial, fungal and viral infections
  - Assessment of efficacy of treatment during management of bacterial, fungal, and viral infections
3. Read and present literature on the interaction of the physician with the clinical laboratory in terms of diagnosis, treatment, and public health

#### Evaluation

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1. Participation in the laboratory and small groups
2. Preparation of a written paper related to the course

This elective **MUST** be supplemented with another half time elective.

Length: 4 weeks      Time(s): Half Time      Hours: 20 per week

Months: 1 o 2 o 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Availability: 3 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## BMS 7304 Review of Immune and Infectious Diseases

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Drs. Pross and Anderson

Introduction: This course will focus on a review of the major immune and infectious diseases that may be encountered by the general physician. Equal time will be spent on immune and infectious diseases, and the interactions of immune responses on infectious processes will also be a focus. The course will cover the basis of these diseases, mechanisms of pathogenesis, and treatment. Infections classified as related to bioterrorism will also be addressed. Daily learning experiences will consist of a combination of lectures, discussions and laboratory experiences. Assessment of understanding will be done by active participation as well as by written reports.

### Objectives

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1. Review the principal basis of immunological diseases including autoimmunity, cancer, hypersensitivity, and transplantation
2. Review the mechanisms of pathogenesis of infectious diseases including those of viral, bacterial, and fungal origins
3. Convey the importance of recognition and identification of infectious agents related to bioterrorism
4. Understand the interaction of immunity and pathogenesis of infectious disease
5. Understand confounding factors of immune and infectious diseases including the role of aging, drugs of abuse, and stress
6. Provide a forum for active discussions related to review and critique of current literature related to immunity and infectious diseases
7. Provide laboratory experiences to clarify and supplement understanding of immunology and infectious diseases

### Evaluation

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1. Participation quality in small groups
2. Presentation of current literature in a journal club style
3. Preparation of a written paper on a topic related to the course
4. Delivery of an oral presentation related to the written paper

This elective MUST be supplemented with another half time elective.

Length: 4 weeks                      Time(s) Half Time                      Hours 20 per week

Months: 1 o 2 o 3 x 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 o

Availability: 3 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 9999I Independent Study in Molecular Medicine**

Faculty

The purpose of independent study in Molecular Medicine is to carry out an in-depth study of a selected topic in Molecular Medicine that is of interest to the student. Subject matter and course structure will be tailored to the interests and needs of the student. Assessment will be based on discussions, oral presentations, and a written paper.

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## PHARMACOLOGY AND MOLECULAR THERAPEUTICS

**BMS 7464**                      **Research in Pharmacology**  
**MEL 9999D**                    **Independent Study in Pharmacology and Therapeutics**

## PHYSIOLOGY

**BMS 7560**                      **Research in Physiology**  
**MEL 9999H**                    **Independent Study in Physiology**

### **BMS 7464**   **Research in Pharmacology**

Faculty

#### Objective

The primary objective of this course is to introduce the student to the research environment. The focus is directed to current research techniques, including methods of data acquisition and analysis, and critical reading of the literature pertinent to the research problem. The student will work as part of the research team on one of the projects currently underway in the department as determined by the student's interest and the concurrence of the faculty. Enrollment, dates, and duration of the course are by arrangement.

Approval, dates, and duration of course must be arranged with a faculty mentor prior to registering.

#### Evaluation

Evaluation will be based on a short paper or oral exam to be determined by arrangement with the instructor.

Length: 4 to 12 weeks    Time(s): Full Time            Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

### **MEL 9999D**   **Independent Study in Pharmacology and Therapeutics**

Faculty

This elective is used to schedule individualized, in-depth studies of a specified area of Pharmacology.

Approval of a faculty mentor must be obtained prior to registering for this course.

#### Evaluation

A written examination and/or paper is required.

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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### **BMS 7560    Research in Physiology**

Faculty

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#### Objective

The primary objective of this course is to introduce the student to the research environment. The student will learn current research techniques and the methods of data collection and reduction. The student will be expected to take an active part in the problem solving aspects of research including in depth reading of the literature pertinent to the research project and participation in conferences and seminars. The student will work as part of the research team on one of the projects current in the department.

Approval, dates, and duration of course must be arranged with a faculty mentor prior to registering.

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#### Evaluation

A written report will be required.

Length: 8 to 12 weeks    Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 10 at USF-MS

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### **MEL 9999H    Independent Study in Physiology**

Faculty

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#### Objective

This elective is used to schedule individualized, in-depth studies of a specified area of Physiology. Approval of a faculty mentor must be obtained prior to registering for this course.

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#### Evaluation

A written examination is required.

Length: 4 weeks      Time(s): Full Time: AM/PM      Hours: 22-44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>MEL 7320N</b>	<b>Externship in Neurology</b>
<b>MEL 8359</b>	<b>Intro to Physical Med and Rehabilitation</b>
<b>MEL 8677</b>	<b>Outpatient Neurology</b>
<b>MEL 8690</b>	<b>Research in Neurology</b>
<b>MEL 9999N</b>	<b>Independent Study in Neurology</b>

**MEL 7320N Externship in Neurology**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

**MEL 8359 Intro to Physical Med and Rehabilitation**

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Dr. Scott and Faculty

This elective will provide the medical student with a broad and comprehensive educational experience in Physical Medicine and Rehabilitation. There will be instruction in the evaluation and rehabilitation of a wide range of medical disability conditions including musculoskeletal problems, head injuries, spinal cord injuries, strokes, amputees, chronic pain, geriatrics, and cardiac rehabilitation. In addition, students will be exposed to physical, occupational, speech, audiology, vocational, recreational, and kinesiological therapies. There will be instruction in functional assessments of all types of physical disabilities and in the diagnostic use of electromyography for muscle and neurological disorders. Overall, the educational experience will offer a practical approach to those patients with disabilities. This will benefit all medical students regardless of their primary area of interest. Visitation at other rehabilitation centers is available.

**Evaluation**

Educational objectives, a learning booklet, and expected learning outcomes with a bibliography will be provided. Evaluation will be based on attendance and demonstration that the educational objectives have been met. An honors grade requires the student to do a case presentation at a weekly conference.

Students will rotate through the Tampa VA Hospital

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at T-VAH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

### **MEL 8677 Outpatient Neurology**

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Drs. Theresa Zesiewicz, Charles Brock, Angel Cruz, Robert Hauser, A. Carvel Gipson, Leon Prockop, Juan Sanchez-Ramos, Maria-Carmen Wilson, Stanley Krolczyk, Rossitza Chichkova, Selim Benbadis, Lara Katzin, Reza Behrouz, Michael Sloan, and

With the course director's assistance, the student will construct a calendar of outpatient experiences which can include any or all of the following Clinics: Alzheimer's Disease; brain tumor; cancer pain; epilepsy; general neurology; headache and chronic pain; independent neurological evaluation; neuro-muscular; multiple sclerosis, Parkinson's Disease; and stroke. Selected reading will be advised. The course is designed to assist students who want a career in primary care or neurology as they prepare for outpatient delivery of care. The department may assign students to USF Clinics, the James A. Haley or Bay Pines Veteran's Hospitals, Moffitt Cancer Center, Harbourside Medical Tower, or Tampa General Hospital to complete this elective.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS; 1 at CCF

### **MEL 8690 Research in Neurology**

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Drs. Charles Brock, Angell Cruz, Robert Hauser, Jan Korthals, Leon Prockop, Juan Sanchez-Ramos, Maria-Carmen Wilson, Michael Hoffmann, Theresa Zesiewicz, Selim Benbadis, Stanley Krolczyk, and Michael Sloan

This elective course is designed for the student who is interested in furthering his/her neurological knowledge by concentrating on an area of clinical research with the expectation of reporting the results in a paper. The student will work directly with one or more departmental faculty members in researching the literature, collecting clinical data and in approaching a particular subject. Research can be conducted in a number of areas including: Alzheimer's Disease, epilepsy and EEG, cancer and chronic pain, neuro-oncology, neurotoxicology, multiple sclerosis, Parkinson's Disease, neuro-muscular disease, and stroke. The elective is offered with approval of the chairman.

#### **Evaluation**

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Grades will be determined by faculty evaluation and resulting paper.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS

### **MEL 9999N Independent Study in Neurology**

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#### **Faculty**

This elective course will benefit the student who wants to develop a knowledge and skills base in addition to that provided by BCC 7154. The student will select an area(s) of neurology sub-specialty. Selected reading, patient contact, and clinical investigation will occur under the direct supervision of a faculty mentor. The areas available are: multiple sclerosis, Alzheimer's Disease, neuro-muscular disease, neuro-oncology, and neurotoxicology. In most cases student involvement in therapeutic drug trials is possible.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>BCC 8122</b>	<b>Surgical Aspects of Neurological Disease</b>
<b>MEL 7320V</b>	<b>Externship in Neurosurgery</b>
<b>MEL 7881</b>	<b>Neurosurgical Research</b>
<b>MEL 9999V</b>	<b>Independent Study in Neurosurgery</b>

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## **BCC 8122 Surgical Aspects of Neurological Disease**

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Drs. Smith, Freeman, Vale, van Loveren, Greenberg, Gaskill, Marlin Uribe, and Youssef

This will be a clinical experience in which the student will work under the supervision of the Residents and Fellows in Neurological Surgery, and the attending neurosurgeons at the College of Medicine. It will be based at either the Tampa General Hospital, or the Tampa VA Hospital, or the Moffitt Cancer Center. There will be a concentrated experience in the diagnosis and management of neurosurgical illness and active participation in the radiological, clinical, and teaching rounds.

On the first day of the rotation, students are to report to the Chief Neurosurgery Resident for morning rounds at 6:30 a.m., ICU IV, 9<sup>th</sup> floor, Tampa General Hospital.

Students will participate in daily ward rounds and will be integrated into the ward management team. Participating students will be required to submit neurological histories and physicals and to follow their patients from the time of admission through surgery into the post-operative period and discharge. At least one oral presentation will be expected during the rotation. Student participation in the operating room will be geared toward individual talents at the discretion of the operating surgeon.

### Evaluation

At the conclusion of the rotation, the student should be quite familiar with and have a basic appreciation of the scope of neurosurgical practice and the approach to neurological emergencies. Students will be evaluated by a consensus of the faculty and fellows based on their ward performance, conference performance, and the quality of their histories and physicals.

Length: 4 weeks      Time(s): Full Time      Hours: 40-50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 6 at USF-MS

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## **MEL 7320V Externship in Neurosurgery**

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Length: 4 weeks      Time(s): Full Time: AM/PM      Hours: 22-44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11x

Availability: No Limit at EXT

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 7881 Neurosurgical Research

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Drs. Sanberg, Freeman, Brem, vanLoveren, Borlongen, and Johnson

The student will be exposed to a variety of techniques currently used in neuroscience research including anatomic, behavioral, histologic, imaging, and physiologic assessment in laboratories currently emphasizing research in neural tissue transplantation, molecular biology, angiogenesis in brain tumors, and spinal biomechanics. Short clinical research projects can also be arranged if planned well in advance.

This rotation is considered an introductory step for students who may be planning an academic course and can be tailored to the individual student's interests and needs.

### Evaluation

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Evaluation will be based on faculty assessment of the student's research productivity.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1  2  3  4  5  6  7  8  9  10  11

Availability: 3 at USF-MS

## MEL 9999V Independent Study in Neurosurgery

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Dr. Fernando Vale

Length: 4 weeks      Time(s): Full Time      Hours: Variable

Months: 1  2  3  4  5  6  7  8  9  10  11

Availability: No limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>MEL 73200</b>	<b>Externship in Ob/Gyn</b>
<b>MEL 7411</b>	<b>Senior Elective in Ob/Gyn</b>
<b>MEL 8416</b>	<b>Rural Women's Health (AHEC)</b>
<b>MEL 8417</b>	<b>Primary Care Community-Based Women's Health (AHEC)</b>
<b>MEL 8420</b>	<b>Ob/Gyn Subspecialty Elective</b>
<b>MEL 99990</b>	<b>Independent Study in Obstetrics and Gynecology</b>

**MEL 73200 Externship in Ob/Gyn**

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This elective provides the student with the opportunity to gain further training in "off-campus" settings in the form of approved extramural electives.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

**MEL 7411 Senior Elective in Ob/Gyn**

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Dr. James Mayer and Staff

This elective provides advanced clinical experience in the medical and surgical aspects of gynecology. Students will take an active role in all phases of patient evaluation and management, both inpatient and outpatient. Pertinent topics will be assigned for presentation and discussion. This course will be offered at Tampa General Hospital/Genesis/USF Medical Clinic.

**Evaluation**

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Grade: Faculty and Resident evaluation.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH

**MEL 8416 Rural Women's Health (AHEC)**

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Faculty and Staff of Manatee County Rural Health Services (Bradenton), DeSoto Memorial Hospital (Arcadia), or other rural sites.

This elective is designed to familiarize the student with the practice of obstetrics and gynecology in a rural, medically underserved community. All students will be under the supervision of a precepting obstetrician/gynecologist and will gain a better understanding of rural women's health and the tremendous health needs of the rural and/or migrant population. Experience in gynecology as well as managing labor and conducting deliveries will be obtained. Students will also have the opportunity to work with nurse midwives and

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**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

nurse practitioners. Gulfcoast South AHEC will provide housing and a mileage stipend for students in Bradenton or Arcadia.

#### Evaluation

Evaluation will be done on an individual basis by the clinical preceptors and will be based on patient interaction, presentations, medical plans, and documentation.

This elective must be scheduled through the Registrar's Office. The Department of Obstetrics and Gynecology and Gulfcoast South AHEC will make final arrangements.

Length: 4 weeks                      Time(s): Full Time                      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at CF

### **MEL 8417 Primary Care Community-Based Women's Health (AHEC)**

Faculty and Staff at Genesis Clinic

This elective is designed to familiarize the student with the practice of obstetrics and gynecology in an inner city, underserved population. All students will be under the supervision of a departmental faculty member and will gain a better understanding of women's health care in a community-based clinic and the tremendous health needs of a medically underserved population. Experience in gynecology as well as in managing low and high risk pregnancies will be obtained.

#### Evaluation

Evaluation will be done on an individual basis by the clinical preceptors and will be based on patient interaction, presentations, medical plans, and documentation.

Length: 4 weeks                      Time(s): Full Time                      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at CF

### **MEL 8420 Ob/Gyn Subspecialty Elective**

Dr. James Mayer

This elective is designed to introduce senior students to the OB/GYN sub-specialty chosen by the student. The student will be under the supervision of the Division Director. The student will work one on one with the sub-specialist, attending or fellow. This individualized exposure to the sub-specialty should provide a clinical, procedural, and operative experience to that sub-specialty.

#### Objectives

1. Provide an introduction and appreciation to an OB/GYN sub-specialty
2. Develop student independent interest and research in the sub-specialty
3. Provide the student with a clinical interactive opportunity with a sub-specialty attending

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Evaluation

The Division Director of each sub-specialty will be responsible for providing the student and the Elective Director with the specific evaluation process.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 1 at USFMC

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## **MEL 99990 Independent Study in Obstetrics and Gynecology**

### Faculty

This elective is used to schedule individually tailored and approved activities not covered by other elective courses, such as research and special programs of study in individual interest areas.

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>MEL 7320E</b>	<b>Externship in Ophthalmology</b>
<b>MEL 7501</b>	<b>Medical Ophthalmology</b>
<b>MEL 7503</b>	<b>Pediatric Ophthalmology</b>
<b>MEL 7506</b>	<b>Cornea/External Disease</b>
<b>MEL 7507</b>	<b>Retinal Elective</b>
<b>MEL 7509</b>	<b>Glaucoma</b>
<b>MEL 9999E</b>	<b>Independent Study in Ophthalmology</b>

**MEL 7320E Externship in Ophthalmology**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

**MEL 7501 Medical Ophthalmology**

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Dr. Hormuz Wadia and departmental faculty

This course will consist of ophthalmic signs and symptoms of systemic medical disease presented through lectures and patient examination. The course includes participation in departmental referral teaching clinics as well as observation of ophthalmic surgery. The course is oriented to those students who are primarily interested in the specialties of medicine, pediatrics, neurology, and ophthalmology. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at USF-MS

**MEL 7503 Pediatric Ophthalmology**

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Dr. Linda Nakanishi

This course is designed for students interested in ophthalmology as a career. The student will participate in the pediatric ophthalmology service. The course includes participation in pediatric ophthalmology clinics and observation of surgeries. Attendance at departmental conferences will be expected and independent reading and investigation is encouraged. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 7506 Cornea/External Disease**

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Drs. Hormuz Wadia, Lewis Groden, and Craig Berger

This course is designed for students interested in ophthalmology as a career. The student will participate in the cornea/external disease service. The course includes participation in cornea clinics and observation of corneal surgery. Clinical and laboratory methods used in the diagnosis and treatment of external diseases of the eye will be presented. Attendance at departmental conferences will be expected, and independent reading and investigation is encouraged. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

## **MEL 7507 Retinal Elective**

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Drs. Peter Reed Pavan and Jennifer Tordilla

The student will evaluate patients with diabetic retinopathy, hypertensive retinopathy, senile macular degeneration, and retinal detachments at the USF Eye Institute using direct and indirect ophthalmoscopy and slit lamp examination of the fundus. The student will learn the interpretation of fundus fluorescein angiography and ultrasonography. He/She will participate in argon and krypton laser photocoagulation as well as assist on scleral buckles and vitrectomies. For those interested in ophthalmology as a career, this course is an opportunity to learn the most advanced diagnostic and therapeutic techniques used in eye care today. Those interested in family practice, internal medicine, geriatrics, and endocrinology will see the retinal pathology most often encountered in their future specialty and learn the resources that are available for evaluation and treatment.

Evaluation will be determined by daily performance observed during the 4-week elective period. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 7509 Glaucoma**

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Drs. David Richards, Christine Callahan, and Lisa Gamell

This course is designed for students interested in ophthalmology as a career. The student will participate in clinics on the glaucoma service. The course includes participation in glaucoma clinics and observation of glaucoma surgery. Clinical methods used in the diagnosis and treatment of glaucoma will be presented. Attendance at departmental conferences will be expected and independent reading and investigation is encouraged. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

## **MEL 9999E Independent Study in Ophthalmology**

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Dr. David Richards and departmental faculty

This course is designed for students interested in ophthalmology research. An interview with Dr. David Richards is required at least 30 days in advance of the start of the rotation to determine if the student will be accepted. The student will work directly with a faculty member doing research in ophthalmology. Independent reading and research will be required. The number of slots per year will be limited. On the first day of the rotation, report to the USF Eye Institute, Louise Switzer.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

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**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

<b>MEL 7320U</b>	<b>Externship in Orthopaedic Surgery</b>
<b>MEL 7821</b>	<b>Surgery of the Hand</b>
<b>MEL 7824</b>	<b>Orthopaedic Elective - Outpatient</b>
<b>MEL 7883</b>	<b>Orthopaedic Research Elective</b>
<b>MEL 8826</b>	<b>Orthopaedic Oncology and Sports Medicine Elective</b>
<b>MEL 9999U</b>	<b>Independent Study in Orthopaedic Surgery</b>

**MEL 7320U Externship in Orthopaedics**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 x 11 x

Availability: No Limit at EXT; 1 at CCF

**MEL 7821 Surgery of the Hand**

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Dr. Belsole and Staff

The objective of this elective is to expose the student to the functional and clinical anatomy, medical and surgical treatment of skeletal, integumental, muscular and neuro-muscular lesions of the upper extremity. Emphasis will be placed on diagnostic and anatomical modalities.

Students will take an active part in both clinic sessions at Tampa General Hospital, the Shriner's Hospital, Florida Orthopaedics Institute, and the James A. Haley Veterans Administration Hospital, as well as operative sessions on selected patients. The student will also be exposed to the physical medicine and non-surgical treatment of patients with disorders of the upper extremity.

Evaluation will be based on the student's ward performance.

Length: 4 weeks      Time(s): Full Time      Hours: 50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MC; 1 at TGH; 1 at T-VAH; 1 at SCH

**MEL 7824 Orthopaedic Elective - Outpatient**

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Dr. Belsole and Faculty

This is an outpatient elective rotating through the general orthopaedics and specialty clinics on a daily basis. It is specifically designed for the student who wishes to become familiar with the basics of orthopaedics without spending time in surgery. Attention will be directed toward the common orthopaedic conditions seen on an outpatient basis and their diagnosis and treatment. This includes the reading of musculoskeletal X-rays (pathologic vs. normal) and attendance at orthopaedic conferences as the student sees fit. Students will attend clinics at the Tampa General Hospital, Florida Orthopaedic Institute, the Shriner's Hospital, or the James A. Haley Veterans Administration Hospital.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Evaluation will be based on the student's ward performance.

Length: 4 weeks      Time(s): Full Time: AM/PM      Hours: 25-44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

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### **MEL 7883    Orthopaedic Research Elective**

Dr. Belsole and Faculty

This rotation provides the opportunity for an interested student to participate in ongoing clinical and/or laboratory research in the Department of Orthopaedics. Projects will be specifically tailored to fit the individual's needs.

Length: 4 weeks      Time(s): Full Time      Hours: 50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 s 11 s

Availability: 1 at USF-MC

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### **MEL 8826    Orthopaedic Oncology and Sports Medicine Elective**

Dr. G. Douglas Letson, Dr. Charles Nofsinger, Dr. David Leffers, Dr. David Cheong, Dr. Claude Sagi and Dr. Robert Pedowitz

This elective is designed to give prospective orthopaedic residents exposure with the Program Director, Dr. G. Douglas Letson, the Chairman, Dr. Robert Pedowitz, faculty and residents of the Department of Orthopaedics & Sports Medicine. Students on this rotation will experience the clinical and surgical treatment of benign and malignant disease, sports medicine injuries and trauma of the musculoskeletal system. Students will spend two weeks at Moffitt Cancer Center-Sarcoma Department, one week at The Morsani Center for Advanced Healthcare-Sports Medicine Clinic and one week at Tampa General Hospital-Orthopaedic Trauma.

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#### Objectives

1. Define, describe and diagnose musculoskeletal abnormalities
2. Discuss and apply innovative methods of assessment and management of various sports related injuries
3. Examine current therapeutic methods for musculoskeletal tumors

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#### Learning outcomes

The student will experience patient care in the clinic and operating room at Moffitt Cancer Center-Sarcoma Clinic, The Morsani Center for Advanced Healthcare-Sports Medicine Clinic and at Tampa General Hospital-Orthopaedic Trauma. Students will also participate in weekly orthopaedic core lecture series on Friday mornings from 7 am -11 am. Upon completion of this elective, the trainee should understand the principles of diagnosis and management of patients who have musculoskeletal abnormalities or diseases.

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#### Evaluation

The student will work closely with the attending orthopedic practitioner, whom will provide the assessment.

Any interested student MUST get the final approval from Ann Joyce to plan the elective. Ideally, this should be

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**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

done prior to the start of the academic year but MUST OCCUR AT LEAST 1 MONTH PRIOR TO THE START OF THE ELECTIVE. There are additional compliance forms from UCH and Moffitt that the student must complete before their rotation.

Length: 4 weeks      Time: Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 MCC and UCH

### **MEL 9999U Independent Study in Orthopaedics**

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Faculty

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 s 9 s 10 s 11 x

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

MEL 7320T Externship - Otolaryngology  
MEL 7816 Otolaryngology/Head and Neck Surgery  
MEL 9999T Independent Study - Otolaryngology

## MEL 7320T Externship in Otolaryngology

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 x 10 x 11 x

Availability: No limit at EXT

## MEL 7816 Otolaryngology/Head and Neck Surgery

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Faculty

This clinical preceptorship is designed to provide an in-depth experience in the practice of otolaryngology. Students will participate in the preoperative study of patients in private offices and will follow them upon their admission to the hospital. They will assist at the operative procedures on selected patients and will be expected to follow their postoperative course. Opportunity will also be afforded to carry out long-range observation of postoperative results in patients who have previously been treated for otolaryngological problems.

By the completion of the elective, all students will be able to demonstrate proficiency in the otolaryngological head and neck exam and will have obtained experience and/or understanding of a variety of ear, nose, and throat disorders such as acute respiratory obstruction, hearing loss, dizziness, sinusitis, external otitis, otitis media, modern diagnosis and management of head and neck cancer, maxillofacial trauma, epistaxis, hoarseness, and dysphasia.

The objective is to provide greater exposure to the field of otolaryngology than what is possible in the basic surgical course, and to give further opportunity for first hand experience in this area for students who are considering ultimate specialization in this field.

### Evaluation

The formal evaluation will be prepared by otolaryngology faculty based on the following: fund of medical knowledge, quality of assessment and presentation, clinical judgment as indicated by rationale of didactic and management plans, attitude and rapport with patients and families and subjective elements of interpersonal relationships, motivation, and ability.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 9999T Independent Study - Otolaryngology

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### Faculty

This course is designed to provide the student interested in otolaryngology as a career an opportunity to carry out an in-depth study of a selected topic in otolaryngology that is of interest to the student. The student will work directly with a faculty member. Assessment will be based on attainment of goals and objectives set at the beginning of the project by the faculty member and student. The student is required to obtain the signature of the faculty mentor prior to registering for the course.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**ANATOMY**

<b>BMS 7187</b>	<b>Advanced Human Anatomy</b>
<b>BMS 7188</b>	<b>Selected Topics in Human Anatomy</b>
<b>MEL 9999A</b>	<b>Independent Study in Anatomy</b>

When scheduling Anatomy electives, students must contact Dr. Arslan in advance to secure permission.

Orhan E. Arslan, DVM, PhD  
 Department of Pathology and Cell Biology  
 University of South Florida College of Medicine  
 12901 Bruce B Downs Blvd MDC 2012  
 Tampa, FL 33612  
 (813) 974-0636

**PATHOLOGY**

<b>BMS 7661</b>	<b>Research in Pathology</b>
<b>BMS 7663</b>	<b>Pathologic Anatomy</b>
<b>BMS 7664</b>	<b>Flexible Elective in Pathology</b>
<b>BMS 7665</b>	<b>Blood Bank Sciences</b>
<b>BMS 7666</b>	<b>Clinical Cytopathology</b>
<b>BMS 7667</b>	<b>Elective in Laboratory Medicine</b>
<b>BMS 7668</b>	<b>Forensic Pathology</b>
<b>MEL 7320P</b>	<b>Externship in Pathology</b>
<b>MEL 9999P</b>	<b>Independent Study in Pathobiology</b>

For all pathology electives, please report by 8:00 AM on the first scheduled day.

<b><u>HOSPITAL</u></b>	<b><u>ROOM</u></b>
MCC	2071
T-VAH	1D179
HCME	Main Entrance
USF-MS	MDC 2049 (unless prior arrangements have been made)
TGH	B232
FBS	Main Entrance

<b><u>HOSPITAL</u></b>	<b><u>CONTACT</u></b>
USF-MS	Michelle Lyons (813) 974-0554
TGH	Michelle Lyons (813) 974-0554
T-VAH	Leah Strickland-Marmol, MD (813) 972-2000 ext. 4566
MCC	Ramon Sandin, MD (813) 974-8451
HCME	Vernard I. Adams, MD (813) 272-5342
FBS	German LeParc, MD (813) 632-5433

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

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## **BMS 7187 Advanced Human Anatomy**

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Dr. Arslan

This course entails supervised regional dissection, discussion of the clinical relevance of the identified structures, participation in gross anatomy laboratory sessions and independent case-based study.

### **Objectives**

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This course is designed to provide senior students with the opportunity to overview anatomy as it relates to selected areas of surgery, emergency medicine and clinical medicine in general. It enables students to emphasize the delicate relationships of anatomical structures through supervised comprehensive dissections. Prospective students will be able to correlate structural organization of human body to the interpretation of disease. Students will be able to participate in teaching anatomy to the junior medical students in an interactive laboratory environment.

### **Evaluation**

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Student performance in this course will be evaluated by written, oral, and/or practical methods. Evaluation is based on completion of the assigned dissection and active participation in anatomy laboratory teaching when courses are in progress. Minimum of 5 powerpoint presentations detailing a series of clinical vignettes with complete history, laboratory values, differential diagnosis and discussions are required. These vignettes must emphasize the importance of structural relationships of the affected organs and anatomic basis of the conditions discussed.

*Students should contact Dr. Arslan to secure permission in advance and coordinate this with other interested students to make the most of the elective.*

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 5 at USF-MS

## **BMS 7188 Selected Topics in Human Anatomy**

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Dr. Arslan

This is a supervised independent study that requires prospective students to meet with the faculty and discuss the topics and to devise a course of study to ensure an expected outcome. Didactic and laboratory methods may be used to explore selected subjects from both a scientific and clinical perspective.

### **Objectives**

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This course is designed to provide senior medical students with the opportunity to overview anatomy, neuroscience and imaging in relation to the selected topics. It enables students to utilize current literature and other available up to date research data in the preparation and presentation of their projects. It thus expands students' knowledge, broadens their scientific experience and develops critical thinking essential for life-long learning in the practice of medicine.

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**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Evaluation

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Student performance in this course will be evaluated by written, oral, and/or practical methods. Evaluation is based on completion of the assigned educational/scientific projects. Students should be prepared to present their findings in oral or written form.

This elective MUST be supplemented with another half time elective.

Length: 4 weeks      Time(s): Half-time      Hours: 22 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

## **MEL 9999A Independent Study in Anatomy**

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Dr. Arslan

This elective course entails collaborative study to explore innovative ideas applicable to basic and clinical sciences

## Objectives

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This elective enables prospective students to develop a collaborative independent plan of study based on the structural sciences. It also furthers the implementation of student-driven projects in areas of applied structural sciences.

## Evaluation

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The nature of this elective dictates variable methods of evaluation. It includes concrete endpoints to be assessed by the faculty on the basis of viability and applicability. Students should be prepared to present their findings in the form of a manuscript to a team of basic and clinical scientists.

Length: 4 weeks      Time(s): Full Time      Hours: Variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

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## **BMS 7661 Research in Pathology**

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Faculty

### Objectives

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The primary objectives of this course are to teach the basic principles of investigative work with emphasis on:

1. Formulation of a specific hypothesis
2. Critical analysis of pertinent literature
3. Development of an appropriate experimental design to test the hypothesis
4. Appreciation of methodological limitations and pitfalls
5. Analysis and interpretation of experimental data

### Evaluation

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1. Monitoring the student's interest, initiative, and progress through daily interactions and at weekly research conferences
2. Evaluating the student's problem-solving ability and diligence in the performance of realistic research assignments
3. Evaluating the student's judgment and critical approach in assigned library work as well as in analyzing and interpreting experimental data

The student will conduct investigative work in human or experimental pathology under the supervision of the senior investigator. These studies will use primarily morphologic and biochemical techniques with human materials or disease models pertaining to inflammation, degeneration, neoplasia, immunopathology, reproductive biology and pathology, pulmonary pathobiology, or metabolic disorders.

The staff pathologists will evaluate the student using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS; 1 at MCC; 1 at T-VAH

## **BMS 7663 Pathologic Anatomy**

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Faculty

### Objectives

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The objective of this course is to strengthen the students in areas of anatomic pathology relevant to the practice of clinical medicine. The student will assist in autopsies and examine surgical specimens under supervision at the James A. Haley Veterans Hospital. He/she will be expected to attend all Pathology Conferences. Particular attention will be given to clinico-pathological correlation.

### Evaluation

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The student will be evaluated by the Staff Pathologists using a standardized Student Evaluation Form.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at T-VAH; 1 at MCC; 1 at TGH

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### **BMS 7664 Flexible Elective in Pathology**

Faculty

#### Objective

The objective of this elective is to gain experience regarding the practice of pathology for those students considering a career in pathology. Partial credit for certain specialty boards may be obtained for this elective.

This program is offered at the James A. Haley Veterans Hospital and is flexibly designed to accommodate students wishing to have an elective in a subspecialty of either anatomical or clinical pathology. Students will be expected to attend all pathology conferences. Particular attention will be given to clinico-pathological correlation relating to the desired subspecialty.

The student will be expected to become familiar with laboratory testing techniques, but clinico-pathological correlation with current case material will be stressed.

#### Evaluation

The staff pathologists will evaluate the student using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at MCC; 1 at T-VAH

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### **BMS 7665 Blood Bank Sciences**

Faculty

#### Objective

The objective of this elective is to provide the student with the opportunity to participate in the production and provision of transfusion products. This will enable the student to consider choices in transfusion therapy. Alternatively, major emphasis can be placed on immunological techniques and pretransfusion testing of donors and patients. The training will be supervised by physician-specialists in blood bank sciences.

#### Evaluation

The student will be evaluated using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at FBS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

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## **BMS 7666 Clinical Cytopathology**

Faculty

### Objective

The objective of this course is to introduce the students to the principles used by the cytopathologist to recognize normal and abnormal biologic processes (hormonal states, infectious diseases, neoplasia) through the examination of cellular specimens obtained from a variety of body sites. Major emphasis will be placed on clinical-cytologic correlations. Students will review selected cytologic specimens during regular "sign-out" sessions.

### Evaluation

The staff cytopathologist will evaluate the student using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at MCC

## **BMS 7667 Elective in Laboratory Medicine**

Faculty

### Objective

The objective of this elective is to acquaint the student with appropriate technical and interpretative laboratory information important to the practice of medicine. Current economic emphasis places even greater importance on the proper use of the laboratory by the physician.

The student will participate under supervision in several areas of the clinical laboratory of his/her choice such as clinical chemistry, microbiology, hematology, etc. The student will have the opportunity to work closely with the senior and resident staff. Major concentration will be on appropriate interpretative laboratory tests. The student will be expected to attend pathology conferences.

### Evaluation

The staff pathologists will evaluate the student using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at T-VAH; 1 at MCC

## **BMS 7668 Forensic Pathology**

Dr. Adams and Faculty

### Objectives

1. Learn to correlate autopsy findings with clinical information and information derived from scene investigations
2. Learn to complete death certificates in a manner acceptable to the Office of Vital Statistics and the World Health Organization

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

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**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

3. Learn anatomy pertinent to the future clinical practice specialty of the student
4. Gain an understanding of the working relationships between forensic pathologists and other professionals, including those in law enforcement, the Office of the State Attorney, the defense bar, the funeral industry, the press, and other medical specialties

#### Methods

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1. Assist with autopsies on the bodies of persons dead from suicide, accident, and natural disease by performing dissections and medical chart review under the supervision of staff pathologists
2. Review pertinent medical literature for selected cases
3. Accompany staff during testimony under oath at criminal and civil trials and at depositions.
4. Accompany staff during death scene investigations (evening and night call-out optional)
5. Participate in departmental conferences. These comprise a working case conference thrice weekly, a pending (cause-of-death opinion deferred to further study) case conference weekly, a photo review conference weekly, and a fixed brain and heart cutting conference weekly
6. Investigate deaths referred for approval of cremation and shipment out-of-state by evaluating death certificates prepared by private physicians and performing telephone follow-up
7. Present an informal talk on a topic of personal interest related to autopsy pathology or anatomy for extra credit

Please check for availability prior to registration.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 x 4 x 5 o 6 o 7 x 8 o 9 o 10 o 11 o

Availability: 1 at HCME, **space permitting**

#### **MEL 7320P Externship in Pathology**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 x 10 x 11 x

Availability: No limit at EXT

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

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## MEL 9999P Independent Study in Pathology

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Faculty

Objective

The objective of this elective is to provide selected students with the opportunity to be exposed to current issues in pathobiology including ovarian cancer biology, advanced cell signaling, and tumor genetics.

Evaluation

Research staff pathologists will evaluate the student using a standardized student evaluation form.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

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**PLEASE NOTE:** An identification badge is a requirement before STARTING your 4<sup>th</sup> year elective rotation at All Children's Hospital and/or Tampa General Hospital.

**IDENTIFICATION BADGE INFORMATION:**

Tampa General Hospital (TGH): Please check in at the Graduate Medical Education/House Staff office at Tampa General Hospital to obtain a TGH badge. Phone: (813) 844-7412

All Children's Hospital (ACH): Please contact the Graduate Medical Education Office at All Children's Hospital to obtain an ACH badge. Phone: (727) 767-4106

<b>MEL 7103</b>	<b>Pediatric Cardiology</b>
<b>MEL 7320K</b>	<b>Externship in Pediatrics</b>
<b>MEL 7551</b>	<b>Acting Internship - In-Patient Pediatrics</b>
<b>MEL 7563</b>	<b>Pediatric Nephrology</b>
<b>MEL 7565</b>	<b>Neonatology</b>
<b>MEL 7596</b>	<b>Pediatric Diabetes and Metabolic Disease</b>
<b>MEL 8554</b>	<b>Primary Care - Pediatrics</b>
<b>MEL 8555</b>	<b>AI – Inpatient Pediatrics - ACH</b>
<b>MEL 8556</b>	<b>AI - Acquired Immunodeficiency Syndrome - ACH</b>
<b>MEL 8559</b>	<b>Pediatric Rural or Migrant Health (AHEC)</b>
<b>MEL 8566</b>	<b>Pediatric Endocrinology: Clinical</b>
<b>MEL 8567</b>	<b>Pediatric Practice</b>
<b>MEL 8568</b>	<b>Pediatric Hematology - Oncology</b>
<b>MEL 8570</b>	<b>Genetics Elective</b>
<b>MEL 8571</b>	<b>Developmental Pediatrics</b>
<b>MEL 8573</b>	<b>Pediatric Allergy and Clinical Immunology</b>
<b>MEL 8574</b>	<b>Pediatric Pulmonary Disease</b>
<b>MEL 8575</b>	<b>Pediatric Intensive Care Elective</b>
<b>MEL 8576</b>	<b>Pediatric Urgent Care-After Hours Pediatrics</b>
<b>MEL 8577</b>	<b>Neonatology - ACH</b>
<b>MEL 8579</b>	<b>Pediatric Gastroenterology/Nutrition</b>
<b>MEL 8580</b>	<b>Pediatric Emergency Medicine</b>
<b>MEL 8582</b>	<b>Pediatric Infectious Disease</b>
<b>MEL 8585</b>	<b>Laboratory and Basic Immunology</b>
<b>MEL 8587</b>	<b>Sports Medicine</b>
<b>MEL 8588</b>	<b>Honors in Pediatrics</b>
<b>MEL 9999K</b>	<b>Independent Study in Pediatrics</b>

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

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## **MEL 7103 Pediatric Cardiology (at ACH)**

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Drs. Crawford, Dadlani, Epstein, and Stapleton

Principles of pediatric cardiology will be taught with three types of encounters. A board certified Pediatric Cardiologist will supervise patient care during the elective rotation. A Clinical or basic research project is available in echocardiography, tissue culture of cardiac cells, fetal cardiology, ischemia-reperfusion injury, and cardiac transplantation.

Clinical cardiology:

1. Outpatient service - Weekly cardiac clinics at All Children's Hospital in St. Petersburg. Emphasis is placed on physical diagnosis.
2. Inpatient Service - Students will participate in work-up and care of cardiac patients including those admitted for diagnostic cardiac catheterization and in-patient consultation.
3. Conferences - Participation in weekly disposition and educational conferences

Non-invasive cardiac studies: Principles in cardiac electrophysiology and anatomy will be taught using electrocardiography and echocardiography at All Children's Hospital.

Cardiac catheterization and angiocardiology and cardiothoracic surgery: Students may observe procedures. The anatomic and physiologic aspects of congenital and acquired lesions and the methodology utilized to obtain data will be emphasized.

Students will be given the option of observing cardiac surgical procedures.

Contact Number: (727) 767-4429

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at ACH

## **MEL 7320K Externship in Pediatrics**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

## **MEL 7551 Tampa General- Acting Internship: In-patient Pediatrics**

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Drs. Gereige and Rodriguez

The in-patient pediatric elective is presented to give the student an experience in the management of children with problems requiring hospitalization. The student will have the responsibility for the evaluation and treatment of a limited number of pediatric cases. The student will care for these patients as an acting intern in consultation with a senior member of the pediatric house staff. The student will take call with the ward team every fourth night.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Objectives

1. The student should be able to conduct a history and physical examination in a concise and logical fashion and define the child's problems.
2. The student should be aware of the diagnostic and therapeutic tools available in pediatrics and be able to use them when appropriate to patient care.
3. The student should develop increasing clinical responsibility and judgment in dealing with hospitalized children and their families.
4. The student should gain familiarity in performing certain basic procedures including venipuncture, lumbar puncture, intravenous line placement, suprapubic puncture, arterial puncture, and bone marrow aspiration.
5. The student should be able to give the indications for admission to the hospital for children with various diagnostic and therapeutic problems.

Contact Number: (813) 259-8752

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH

## **MEL 7563 Pediatric Nephrology**

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Drs. Campos, Panzarino, Flores, and Perlman

This elective will aid students in their initial approach to pediatric renal disease, understanding the mechanisms of renal injury and evaluation and therapy of renal diseases. Tutorials are offered at least twice a week, covering topics such as proteinuria, hematuria, developmental anomalies, urinary tract infection, acute and chronic glomerulonephritis, nephrotic syndrome, acute and chronic renal failure, lupus erythematosus, hypertension, dialysis, and transplantation. Other topics may also be covered as determined by student preference.

The students will provide inpatient (TGH and /or ACH) and outpatient (USF Clinics) care under close faculty supervision. The student is expected to either provide a discussion of one selected topic or present a patient management case towards the end of the rotation.

TGH Contact Number: (813) 259-8760

ACH Contact Number: (727) 767-4181

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 1 at ACH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

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**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 7565 Neonatology-TGH

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Drs. Nelson, Haubner, Ashmeade, Tolosa, Hutchinson and Wadhawan

This elective is for a clinical rotation in the neonatal intensive care unit at Tampa General Hospital.

### Objective

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The objective of this elective is the development of clinical expertise in the management of disorders of the neonate. The clinical clerk will be an integral part of the neonatal management team with participation in conferences, attending rounds and clinical care under close faculty, and neonatal fellow supervision.

### Evaluation

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Evaluation of the student's performance will be made by observing development of his/her clinical expertise and the use of informal quizzes.

Students should report to the NICU on the 4<sup>th</sup> floor at TGH. Please call the Neonatology Office at (813) 259-8812 at least one week in advance to confirm your rotation. Contact Dr. Ashmeade at (813) 259-8812 at 8 a.m. on the first day of the rotation if you need further information.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH

## MEL 7596 Pediatric Diabetes and Metabolic Disease

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Dr. Malone

This elective is designed to provide clinical exposure to children with insulin dependent diabetes, PKU, galactosemia, glycogen storage disease, and other inborn errors of metabolism as they appear in the clinic. The activity will be based at the medical school, but daily rounds at Tampa General Hospital will also be required. Special emphasis will be placed upon nutrition as it relates to these disorders and will be supervised by the Diabetes Center dietitian. The psychosocial issues of chronic disease will also be presented by the Diabetes Center social worker. The Diabetes Center staff (coordinated by the diabetes nurse educator) will provide specific education about the techniques required for home management of these chronic disorders.

### Objective

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The objective is to provide clinical exposure to common as well as rare chronic metabolic disease and improve understanding of the basic clinical disorders and the problems associated with nutrition and routine home management.

Interested students must contact the director, Dr. Malone at (727) 767-4237, prior to selecting this elective. Those interested in more intense exposure to children with a chronic disease should contact Dr. Malone to learn the dates of a two-week camp session for children with diabetes.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MC

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### **MEL 8554 Primary Care - Pediatrics**

General Pediatrics Faculty and Staff

This rotation allows the student to experience the broad range of primary pediatric care issues in the USF Health Pediatric Clinic, located at 2A Columbia Dr., South Tampa Center, 2<sup>nd</sup> Floor, and Tampa. The student is expected to improve skills of obtaining histories, performing physical examinations, and developing thorough differential diagnoses and management plans. Primary care issues are discussed daily. Each student will present a topic relevant to ambulatory pediatrics at the end of the rotation. Attendance at Pediatric Grand Rounds and scheduled conferences is required. At the end of this rotation the student will have acquired substantial pediatric outpatient skills and confidence.

#### Objective

Introduce the student interested in pediatric medicine to the wide range of problems encountered in an ambulatory setting

Please contact Dr. Sharon Dabrow via email at [sdabrow@health.usf.edu](mailto:sdabrow@health.usf.edu) at least four-weeks prior to beginning this elective.

Contact Number: (813) 259-8752

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 1 at ORHC (ORHC site must be scheduled through the Registrar's Office)

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### **MEL 8555 All Children's Hospital- Acting Internship: In-patient Pediatrics**

Pediatric Hospitalists

The senior medical student will serve as an "acting intern" with the resident staff assigned to the inpatient medical teaching service of All Children's Hospital. He/She will interview and examine patients and participate in the planning and execution of diagnostic and therapeutic programs under the supervision of residents and faculty in pediatrics. The student will participate actively in teaching rounds, journal clubs, and seminars as a junior house staff member.

#### Objective

Offer the student a period of intensive exposure to inpatient general pediatrics by permitting the student maximal responsibility for patient cares in a supervised setting

#### Evaluation

The student's written histories and physical examinations, problem list, and plans of evaluation and therapy will be reviewed by the attending faculty, the director of the Inpatient Service and senior residents of All Children's

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Hospital, each of whom will meet with the student frequently. The quality of these records as well as the student's daily activities at rounds and conferences will form the basis of the evaluation.

Night call is no more frequent than every 4th night.

Contact Number: (727) 767-4106.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH

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**MEL 8556 AI - Acquired Immunodeficiency Syndrome**

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Drs. Rodriguez, Lujan-Zilberman and Emmanuel

The senior medical student will participate in both inpatient and outpatient clinical duties involving HIV-infected children and adolescents. The student will perform history and physical examinations on infants born to infected mothers and on HIV-infected children. Diagnostic and therapeutic programs will be executed with the supervision of the Pediatric Infectious Diseases faculty. The principles of laboratory evaluation of the HIV-infected child will be demonstrated in the clinical immunology laboratory. For students interested in participating in clinical and/or basic research, participation in small pilot projects is encouraged under the mentorship of a faculty member. The student will participate in teaching rounds, journal clubs, and seminars with the faculty, and will rotate at the ACH Clinic and the CMS clinic in Tampa.

**Objective**

Offer the student a period of intense exposure to HIV infection in infants, children, and adolescents with participation in a supervised outpatient, inpatient, and laboratory setting

**Evaluation**

The student's history and physical examinations, generation of problem lists, and plans for evaluation and treatment will be reviewed frequently by the attending faculty. The quality of these records as well as the student's daily activities at rounds and clinics and conferences will form the basis of the evaluation.

No night is call required.

The medical student should report to Dr. Carina Rodriguez in the Division of Pediatric Infectious Diseases. Contact Number: (813) 259-8800.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at ACH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 8559 Pediatric Rural or Migrant Health (AHEC)**

Faculty and Staff at Suncoast Community Health Centers (Ruskin, Dover, Plant City), Family Medical Center (Dade City), Health Resource Alliance (Zephyrhills), and Manatee County Rural Health Services (Bradenton)

PRIOR APPROVAL REQUIRED - Please contact Dr. Cynthia Selleck at [cselleck@health.usf.edu](mailto:cselleck@health.usf.edu) or (813) 974-3507 at least six weeks prior to registering for this elective.

This elective is designed to familiarize the student with general outpatient pediatric care in a rural migrant health center. All students will be under the supervision of a precepting physician participating in well childcare as well as acute walk-in care. This rotation will provide students with a better understanding of rural medicine and the tremendous health needs of rural and migrant populations. In certain settings, many patients are Spanish speaking, and students will have the opportunity to work with interpreters. Depending on the site selected, Gulfcoast North or Gulfcoast South AHECs will provide housing and/or a mileage stipend to students.

### Evaluation

The clinician preceptors will evaluate students on an individual basis by. Evaluations will be based on patient interaction, presentations, medical plans, and documentation.

At certain sites this elective is available to USF students only. The Department of Pediatrics and Gulfcoast North or Gulfcoast South AHEC will make the final arrangements.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at CF

## **MEL 8566 Pediatric Endocrinology: Clinical**

Drs. Root, Bercu, Diamond, and Shulman

The student will participate in the evaluation and management of children with aberrations of the endocrine system. The student will interview and examine outpatients and inpatients referred for pediatric endocrine consultation. The student will assist in the planning and execution of diagnostic and therapeutic programs for these patients. He/She will participate in clinical endocrine rounds, endocrine journal club, and seminars as a junior member of the endocrine team.

### Objective

Introduce the student to the clinical aspects of diseases of the endocrine system in infants, children, and adolescents

### Evaluation

The progress of the student will be monitored on an individual basis. The student will be expected to read widely and to participate actively in the service. The student will present one seminar pertinent to a clinical pediatric endocrinologic subject. The grade for the course will be a composite of the daily activities and the didactic presentation.

Please report to the ACH Physician's Office Building, Suite 120, at 8:30 AM on the first scheduled day of the course. For further information, please contact Allen W. Root, MD, at (727) 767-4237.

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH

### **MEL 8567    Pediatric Practice**

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Faculty

This rotation is a tutorial association with a community pediatrician. The student will see patients in the physician's office, may be on call for emergencies, will accompany the physician on hospital rounds, and will participate in appropriate hospital conferences and seminars. The experience should broaden the scope of the student interested in the community practice of pediatrics.

Objective

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Provide a realistic view of community pediatric practice

Final arrangements concerning the course location/preceptor will be made through a faculty member after the student receives his/her elective choice.

Contact the course coordinator at least two weeks prior to elective at (813) 259-8713.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 o 3 o 4 o 5 o 6 x 7 o 8 o 9 o 10 o 11 o

Availability: 1 at USF-MS

### **MEL 8568    Pediatric Hematology - Oncology**

Drs. Barbosa and Grana

The student will be involved in the management of patients with hematologic and oncologic problems both in the inpatient and outpatient settings. With the inpatient services, the student will participate in the AM rounds, assist with diagnostic procedures and planning therapy. The student will interview and examine patients referred for consultation. Written histories and physical examinations and plans for evaluation and treatment will be reviewed with the attending physician. In the outpatient setting, the student will actively participate in interviewing and examining follow-up patients and newly referred patients. The student will attend the weekly multidisciplinary patient care rounds and monthly tumor board. By the end of the period the student is expected to be proficient in the morphologic interpretation of peripheral blood smears and bone marrow.

Objective

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Introduce the student to the clinical aspects of hematologic and oncologic disease in children

Contact Number: (727) 767-4176.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at ACH

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**MEL 8570    Genetics Elective**

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Drs. Ranells, Loscalzo, Prijoles, and Staff

**Objective**

The goal of this elective is to acquaint the student with genetic disorders in pediatrics: diagnostic evaluation, differential diagnosis, inheritance, management and counseling. Students will attend Genetics Clinics Monday and Thursday, full day, at CMS on campus, occasional outreach CMS clinics; and/or ACH clinics Tuesday AM and PM, Wednesday AM and Friday AM. Students will be responsible for either the extensive work-up of one new patient or see re-visits as scheduled. Students will participate in inpatient consultations. The elective may be done primarily at either USF or ACH site. The USF site also offers exposure to prenatal genetics cases. Two days will be spent in the cytogenetics lab and/or the molecular genetics laboratory. Phone: (813) 259-8772

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 x 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at CMS; 1 at ACH

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**MEL 8571    Developmental Pediatrics**

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Drs. Lilly, Shapiro, and Armstrong

**Objective**

The goal of this challenging elective is to familiarize the student with the clinical aspects of child development. Participating in patient evaluations via observation and direct contact and interacting with various members of a multidisciplinary team will facilitate an understanding of the diversity of the field. Students will learn to administer basic screening tests and to assess the many aspects of development, which contribute to diagnosis and intervention. In addition to "hands-on" training, weekly lectures and meetings will provide teaching in the basic areas of normal and pathologic child development including neurological and genetic disorders, mental retardation, and learning disabilities. This elective incorporates a wide variety of clinic environments, with exposure to NICU follow-up, age 0-3 Early Intervention Program, and the school-age population. The objectives of this elective can be met via a research track, a clinical track, or a literature review/writing track.

Contact: Dr. Carol Lilly at [clilly@health.usf.edu](mailto:clilly@health.usf.edu) at least 4 weeks prior to the start of the elective. Phone: (813) 974-0601

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## **MEL 8573 Pediatric Allergy and Clinical Immunology**

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Drs. Sleasman, Sher, and Dorsey

This elective is designed to give the student experience on both the outpatient and inpatient immunologic services of All Children's Hospital. The participant will assist in the diagnosis, treatment, and management of patients with a broad spectrum of immunologic, allergic, and rheumatologic diseases. The elective will emphasize a logical approach to clinical immunologic problems and to the use of current laboratory methods in the delineation of the immunologic aberrations basic to the disease process. The student will learn about the performance and interpretation of allergy skin testing, spirometry, tympanometry, rhinoscopy, food challenge procedures, immunotherapy to aeroallergens, and drug desensitization. Students will gain experience in the role of bone marrow transplantation in the treatment of immunodeficiency disease, malignant disease, and inherited metabolic disorders.

### **Objective**

Offer the student an intensive exposure to clinical allergy-immunology by exposing the student to supervised responsibility for patient care

The student should report to the Division of Allergy/Immunology at 8:30 AM at ACH, Health Systems Building, 1<sup>st</sup> floor, 777 4<sup>th</sup> Street South, St. Petersburg, FL, 33701.

Contact Number: (727) 767-4470.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH

## **MEL 8574 Pediatric Pulmonary Disease**

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Drs. Schnapf, Kriseman, Ewig, Couluris, and Gondor

This elective will involve working with a multidisciplinary team that will provide experience in the evaluation and management of acute and chronic pediatric respiratory diseases. An understanding of the basic principles of respiratory physiology and the pathophysiology of common pulmonary disorders will be emphasized. Experience with pulmonary function testing of children, flexible bronchoscopy, sleep-related disorders of breathing, upper airway problems, and the approach to common respiratory signs and symptoms will be covered. Students will participate in the evaluation and care of inpatients as well as outpatients with asthma, bronchopulmonary dysplasia, cystic fibrosis, and other respiratory disorders. Interaction with daily pediatric and radiographic conferences will be encouraged. Pertinent literature will be reviewed. Students will present a brief talk on a pulmonary medicine topic of their choice.

Contact number at TGH is (813) 259-8767.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 x 7 o 8 o 9 x 10 o 11 o

Availability: 1 at TGH; 2 at ACH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

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**MEL 8575 Pediatric Intensive Care Elective**

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Drs. Weibley, Riggs, Everett, Saltiel, and Staff

The PICU is a multidisciplinary unit providing acute care for pediatric patients with a wide variety of medical and surgical problems. The goals and objectives for this elective are intentionally broad to allow for a learning experience in meeting the student's individual needs. Students will learn to utilize a physiologic-based organ system derived approach to patient problems. Integration of multiple healthcare providers is emphasized. Students are given the responsibility for patient care under the direct supervision of the PICU resident or attending faculty. Educational goals will be met through discussions on teaching rounds, didactic presentations on aspects of pediatric critical care medicine, and self-directed study on individual patients. Final evaluations will be based on the guidelines presented on the USF COM MSIV evaluation form and the degree to which the student has met his/her stated objectives.

Contact Number: (727) 767-4755

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 1 at ACH

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**MEL 8576 Pediatric Urgent Care-After Hours Pediatrics**

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Dr. Charles Welborn

In this "after hours" clinical setting, each student will participate in all aspects of pediatric urgent care at After Hours Pediatrics. The student is expected to become familiar with a broad range of medical problems including traumatic injuries. Under the guidance of an attending physician, students will participate and assist in all aspects of acute care including history, physical examination, and technical procedures that the case requires. Students will also be asked to work as a member of the medical team consisting of specially trained and credentialed pediatric emergency physicians, nurses, and support personnel. Emphasis will be placed on rapid assessment skills, prioritization of care, and interaction with primary care pediatricians. Opportunities exist for the development of procedural skills in addition to medical management skills.

Please contact Dr. Welborn at [cwelborn@tampabay.rr.com](mailto:cwelborn@tampabay.rr.com) at least one week prior to the rotation. Administrative Office Phone: (813)775-4022

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at CF

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**MEL 8577 Neonatology-ACH**

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Dr. Sosa and Faculty

The student will directly care for several neonates in the neonatal intensive care unit of the All Children's Hospital under close supervision. In addition to daily teaching rounds, conferences include monthly combined perinatal

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

morbidity, mortality conferences, bi-weekly radiology rounds, and several conferences each week pertaining to clinical problems in neonatology. Involvement in on-going research projects is also available with prior arrangement.

#### Objective

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Introduce the student to intensive neonatology and provide in-depth clinical experience under close supervision

Contact Number: (727) 767-4313.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at ACH

#### **MEL 8579 Pediatric Gastroenterology, Hepatology and Nutrition**

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Dr. McClenathan and Wilsey's Group and Dr. Reinstein's Group

The Pediatric Gastroenterology/Nutrition Department is a very active clinical service. The student will participate in the evaluation and management of children with gastrointestinal disease. The student will interview and examine outpatients and inpatients referred for pediatric gastrointestinal disorders. The student will assist in planning the diagnostic and therapeutic program for these patients. He/She will observe diagnostic modalities such as endoscopy, manometry, esophageal dilation, suction rectal biopsies, and Ph probes. The student will also participate in clinical gastrointestinal rounds and GI Journal Club.

There will be one slot available at Drs. McClenathan & Wilsey's Group (ACH/Tampa Office), and one slot available at Dr. Reinstein's Group (ACH).

#### Evaluation

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The student will be expected to read about the diseases of their clinic and hospital patients. Grading for the course will be a reflection of the student's participation and daily activities.

Contact Heather at (727) 822-4300 prior to the first day of the rotation.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH

#### **MEL 8580 Pediatric Emergency Medicine**

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Dr. Rahman and Staff at ACH; Dr. Gaar and Staff at TGH

The Pediatric Emergency Medicine elective at All Children's Hospital and/or Tampa General Hospital is designed to give an in-depth exposure to the identification and management of acutely ill and injured children. Students are integrated into the health care team and participate directly in all aspects of patient care for medical/surgical/trauma emergencies including history, physical examination, management options, evaluation of laboratory and radiographic studies, utilization of consultants, decision making, and disposition. Under the

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

supervision of an attending physician, students are involved in technical procedures including suturing, immobilization, splints, phlebotomy, IVs, ABGs, lumbar puncture, bladder tap, central venous access, arterial lines, endotracheal intubation, chest tube insertion, thoracentesis, and cardiopulmonary resuscitation. The emergency center environment features a computerized tracking system and exposes students to this modality for expediting patient care. Students participate in daily didactic conferences, radiology rounds, chart review, plus monthly mock code scenarios designed to integrate with syllabus material. By the completion of the rotation, students will be able to identify an acutely ill or injured child and develop and implement an appropriate management plan.

TGH Contact Number: (813) 627-5908 and (813) 627-5906

ACH Contact Number: (727) 767-8480

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 2 at ACH

### **MEL 8582 Pediatric Infectious Disease**

Drs. Bergamo, Lujan-Zilbermann, Rodriguez, Dumois, Berman, Messina, and Emmanuel

This elective in pediatric infectious disease is a clinical preceptorship with the Infectious Disease team. The majority of time is spent on inpatient consults. The student is exposed to all areas of the hospital since consults are answered in critical care areas, the general pediatric wards, and NICU. Inpatient consultations on the Tampa rotation will be performed at St. Joseph's Children's Hospital. In the ambulatory setting, the student will have exposure to the outpatient ID clinic and the pediatric/adolescent HIV clinic. Microbiological laboratory utilization and antibiotic therapy are emphasized during the rotation. Informal teaching conferences are held frequently. The student is expected to participate in weekly journal club, presenting an article each week.

No night call is required

For the Tampa rotation, the medical student should report to Dr. Dale Bergamo in the Division of Pediatric Infectious Diseases. Please contact the department at least two weeks prior to starting elective. Contact Number: (813) 259-8800

For the ACH rotation, the medical student should report to Drs Juan Dumois and David Berman at ACH Pediatric Infectious Disease. Contact Number: (727) 767-4160

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH; 1 at SJH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 8585 Laboratory and Basic Immunology

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Dr. Day

In this elective, an opportunity is offered for fourth year medical students and immunology residents to have hands-on experience using modern techniques in the laboratory. These include:

1. Learning to quantify immunoglobulin and immunoglobulin subclass levels, cytofluorometric enumeration of T cells, proliferative responses to phytoantigens, allogeneic cells or common antigens
2. Experience in the analysis of the biological amplification systems, e.g., total hemolytic complement (C), and each of the components of the primary or alternative complement (C) pathway and their inhibitors
3. Experience in molecular techniques for detection of viruses (HIV and HCV)
4. Analyses of basic effector mechanism, e.g. phagocytosis, bacterial killing, chemiluminescence responses, nitroblue tetrazolium dye reduction responses, thymus hormone (thymulin) analysis, serum Zn, and cellular lymphocyte or granulocyte Zn concentrations.

Cytokine studies (levels and gene expression) are also included. During the elective period, the students will become comfortable in interpreting and analyzing laboratory investigation of major cells and defense mechanisms of the body.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at ACH

## MEL 8587 Sports Medicine

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Dr. Gereige

The student in this elective will have the opportunity to work with orthopedic/sports medicine specialists, physical therapists, and certified athletic trainers. The sports medicine experience includes sports medicine clinics, hands-on field experience with a certified athletic trainer at the University of Tampa, familiarity with rehabilitation modalities at a physical therapy center, and game coverage opportunities. In addition, students might have exposure to sports for children with disabilities.

### Objectives

This elective is designed to provide the students, as general practitioners, with the background to comfortably evaluate, treat, diagnose, and selectively refer athletic injuries. The educational objectives include:

1. Sports participation evaluation and normal orthopedic exam
2. Evaluation, diagnosis, and mechanism of common athletic and overuse injuries both on the field and in the clinic setting
3. Familiarity with available physical therapy and rehabilitation modalities
4. Participation in counseling about injury prevention education, nutrition, healthy lifestyles, dehydration, and anabolic steroid issues.

Scheduling Information: Please contact Dr. Rani Gereige at (727) 767-4106 at least **two weeks** prior to beginning this elective.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 x 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at ACH

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**MEL 8588 Honors in Pediatrics**

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Dr. Nelson and Faculty

All students are eligible to apply for the Honors Course in Pediatrics. The Honors Program curriculum includes a creative scholarly project with the preceptor of the student's choice. The project and registration for the course must be approved by Dr. Nelson or his designee. In addition, a clinical experience pertinent to the scholarly activity of choice is required during the four-week block. An interest in pursuing a career in Pediatrics or Internal Medicine-Pediatrics is suggested for this elective. Depending on their preceptor selection, students may rotate at All Children's Hospital, the USF Medical Clinics, or Tampa General Hospital.

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**Objectives**

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1. Scholarly project presentation at noon conference or publication
2. Exposure to related clinical experience

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**Evaluation**

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An evaluation form will be submitted by the preceptor with whom the student will directly work.

Prior approval of this elective is required. Students should contact Dr. Nelson at least four-weeks prior to registering to discuss topics of interest and to identify preceptor.

This elective is NOT available to visiting students.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 x 6 x 7 x 8 x 9 x 10 x 11 x

Availability: 4 at USF-MS

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**MEL 9999K Independent Study Pediatrics**

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Faculty

The purpose of this elective is to give students the opportunity to work directly with a mentoring faculty member. At least 30 days prior to registering for this elective, students must meet with their preceptor to determine a course of study with goals and objectives for the course period.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

MEL 7109	Outpatient Psychiatry
MEL 7320Y	Externship in Psychiatry
MEL 7602	Child and Adolescent Psychiatry
MEL 7611	Acting Internship in Psychiatry: Advanced Adult Inpatient Psychiatry
MEL 7612	Geriatric Psychiatry
MEL 7613	Alcoholism and Substance Abuse
MEL 7619	Forensic Psychiatry
MEL 8608	Memory Disorders Clinic
MEL 8614	Acting Internship in Consultation Liaison Psychiatry
MEL 8621	Mood Disorders Across the Life Cycle
MEL 8625	Motivational Interviewing in Medical Settings
MEL 8664	Psychiatric Research
MEL 8665	Molecular Genetic Research in Psychiatry
MEL 8666	Neuroimmunology Research in Psychiatry
MEL 8667	Cognitive Medicine, Neuropsychiatry, and Neuroscience
MEL 8686	Neuropsychopharmacology
MEL 9999Y	Independent Study in Psychiatry

**MEL 7109 Out-Patient Psychiatry**

Drs. Sandra Stock, J. Zak, Francisco Fernandez, and Medical Staff

This elective is designed to provide interested students with clinical and didactic training in outpatient psychiatry. The student will have an opportunity to develop greater diagnostic and management skills in varied outpatient settings including the University Psychiatry Center Outpatient Clinic and the Tampa VA Hospital. Specific experiences can include the anxiety and memory disorders clinic, the Adult Evaluation Clinic, and the Child Evaluation Clinic. An opportunity to gain increased understanding of crisis intervention in an outpatient setting at the Tampa VA Hospital is also available.

**Objectives**

1. Become more skilled in interviewing patients who present both medical and psychiatric problems in various outpatient settings
2. Gain an increased understanding of and develop skills in specialized evaluation and treatment situations (family, child, and adult)
3. Develop a more in-depth understanding of psychopathology
4. Gain a greater familiarity with a variety of psychotherapy modalities including individual, group, family, and marital therapy
5. Become more skilled in utilizing psychotropic medications

**Evaluation**

The supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the student learned in the elective, and a critique of his/her elective experience.

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at UPC

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**MEL 7320Y Externship in Psychiatry**

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Dr. Francisco Fernandez

Length: 4 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

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**MEL 7602 Child and Adolescent Psychiatry**

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Drs. M. Bengtson, Saundra Stock, H. Nagera, and Medical Staff

This elective is designed to provide the interested student with an opportunity to develop diagnostic and management skills essential to the evaluation and treatment of children with psychiatric problems including the behavioral disorders that are commonly encountered in family medicine and pediatric practices.

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**Objectives**

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1. Learn how to evaluate and diagnose psychiatric problems including common behavioral disorders in children
2. Learn basic management skills of psychiatric problems including common behavioral problems
3. Become familiar with community agencies available to help children with psychiatric and behavioral problems
4. Become more familiar with the general practice of child psychiatry
5. Enhance interviewing skills of children and their families

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**Evaluation**

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The supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the student learned in the elective, and a critique of his/her elective experience.

Length: 4 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 x 2 x 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at UPC

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**MEL 7611 Acting Internship in Psychiatry: Advanced Adult Inpatient Psychiatry**

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Drs. Patrick Marsh, J. Fernandez, P. Powers, D. Sanchez, W. Levy, E. Settle, R. Velasco and Medical Staff

This elective is designed to provide advanced clinical and didactic training in inpatient psychiatry. Students will participate as a "sub-intern" on an inpatient psychiatric ward. Students are expected to have a small case load of patients that they actively manage taking on primary responsibility for the patient's care in conjunction with the supervising faculty. Students will perform the history and physical for patients being admitted to the hospital and

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

follow the patient on a daily throughout the hospital course. Students will learn to construct a biopsychosocial formulation of the patient's presenting problems along with providing acute, intense biological, psychological and social interventions during the hospitalization. Students will also learn to compose discharge summaries. Close supervision, seminars, and independent study will complement the clinical activities.

### Objectives

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1. Develop a more in-depth understanding of psychopathology
2. Become more skilled in the use of psychotropic medication
3. Gain a greater familiarity with a variety of psychotherapy modalities including individual, group, and family psychotherapy
4. Become more skilled in the interviewing of psychiatric patients
5. Understand how eating disorders are evaluated and treated (Dr. Powers at Fairwinds Hospital)

### Evaluation

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The supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the student learned in the elective, and a critique of his/her elective experience.

Length: 4 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH; 3 at T-VAH; 1 at BP-VAH; 1 at FTC

NOTE: FTC is not available all months. Please check with the education coordinator for availability

## **MEL 7612 Geriatric Psychiatry**

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Drs. M. Caserta, J. Fils, M. Schoenberg, J. Stewart, J. Hashimie, R. Velasco, and Medical Staff

This elective is designed to offer advanced experience in the evaluation, treatment, and rehabilitation of elderly patients with psychiatric disorders. Students can participate in both inpatient and outpatient geriatric psychiatry care. Students will have clinical responsibility for diagnosis, treatment, and rehabilitation of elderly psychiatry patients. Supervision, seminars, and independent study will complement the clinical activities.

### Objectives

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1. Become familiar with the multidisciplinary assessment of elderly patients
2. Develop specialized diagnostic skills for identifying and differentiating organic brain syndromes
3. Learn how to integrate psychiatry and medical care of the elderly
4. Become familiar with utilization of community resources in the care of the elderly

### Evaluation

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The supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the student learned in the elective, and a critique of his/her elective experience.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at T-VAH; 1 at UPC

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### **MEL 7613 Alcoholism and Substance Abuse**

Drs. E. Francis and M. Brown

This elective is designed to offer advanced experiences in the evaluation, treatment, and rehabilitation of alcoholic and substance abuse patients, and the assessment and diagnosis management of other co-existing psychiatric disorders. The student will participate in a therapeutic community treatment program for chemical dependency, have direct clinical responsibilities for patient care and interact with available community resources for chemically dependent patients. The student will have the opportunity to participate in ongoing addiction research activities.

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#### **Objectives**

1. Enhance diagnostic skills in chemical dependency and associated medical and psychiatric disorders
2. Learn individual, group, and community treatment techniques for the chemically dependent patient
3. Learn how to facilitate rehabilitation of chemically dependent patients
4. Learn about community resources for chemically dependent patients

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#### **Evaluation**

The supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the student learned in the elective, and a critique of his/her elective experience.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at UPC/DACCO, 1 at T-VAH

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### **MEL 7619 Forensic Psychiatry**

Drs. W. Myers and D. Taylor

This elective is designed to provide interested senior medical students with clinical and research experience in the field of forensic psychiatry. The student will have the opportunity to participate in forensic evaluations of adults and children. Cases will consist of criminal and civil issues such as legal insanity, competency to stand trial, malpractice, and personal injury. Students will be exposed to the practices of USF forensic faculty and associated team members. Students will be expected to review case records, attend evaluations, assist in report preparation, observe deposition and court testimony, and do literature searches on specific topics as relevant. Students may also be involved in assisting with forensic research activities as dictated by their interest. The elective will be centered at the University Psychiatry Center and the Silver Child Development Center. Travel for the day away from Tampa may be necessary to complete evaluations or to attend court hearings or trials.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Objectives

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1. Increase understanding of the issues that affect the mentally ill in the legal system
2. Gain experience in the psychiatric evaluation of defendants and the role of psychological testing
3. Gain a greater appreciation of the legal system and its relationship with mental health professionals
4. Increase knowledge of how a forensic evaluation is prepared and the importance of language usage in this setting
5. Have the opportunity to prepare a publication based on interest level
6. Learn about the process of being deposed

## Evaluation

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The supervising faculty will evaluate the student's academic performance according to the elective objectives. The student's clinical performance will be evaluated by supervising faculty form according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self evaluation of what the he/she learned on the elective, and a critique of his/her elective experience.

Please contact Dr. Wade Myers prior to the registering for this elective to ensure availability.

Length: 4 to 8 weeks Time(s): Full Time Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at UPC

## **MEL 8608 Memory Disorders Clinic**

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Drs. M. Caserta, J. Fils, M. Schoenberg, and Francisco Fernandez

This elective is designed to provide interested senior medical students with an advanced experience in the evaluation and treatment of Memory Disorder Clinic patients. The psychiatric evaluation will allow the senior student to become proficient in the diagnostic work-up of the patient with a memory complaint and with the memory disorders work-up which includes neuroimaging studies of the brain, laboratory studies, neuropsychological testing and psychosocial evaluation. Students will gain expertise in geriatric medicine, geriatric psychiatry and the differential diagnosis of patients with memory complaints and psychiatric disorders.

The student will spend the majority of the elective at the Johnnie B. Byrd, Sr., Alzheimer's Center and Research Institute. The student may be involved at other facilities such as an Assisted Living Facility or nursing home as relates to the geriatric population. Supervision and seminars will complement these clinical activities.

## Objectives

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1. Become familiar with the multidisciplinary assessment of elderly patients
2. Develop specialized diagnostic skills for identifying and differentiating the multiple causes of dementia
3. Learn how to integrate psychiatry and medical care of the elderly
4. Become familiar with utilization of community resources in the care of the elderly

## Evaluation

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The student's clinical performance will be evaluated by the supervising faculty according to the elective

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self evaluation of what the he/she learned on the elective, and a critique of his/her elective experience.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at Byrd Institute

### **MEL 8614 Acting Internship in Consultation Liaison Psychiatry**

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Drs. B. Keefe, Barbara Lubrano, and Glenn Catalano

This elective is designed to provide students with a greater understanding of the interface between psychiatry and medical illness in the pediatric and adult populations. Students will assist the consultation team in interviewing medical/surgical patients at Tampa General Hospital. Students will be asked to evaluate patients and ascertain how the patient's medical illness is affected by psychological factors. They will be exposed to a wide range of psychopathology including mood disorders, conversion disorders, psychotic disorders, delirium, dementias, and other organic illnesses.

#### Objectives

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1. Become familiar with psychiatric diagnoses in both the adult and child populations
2. Improve interviewing skills by performing interviews on difficult medical/surgical patients
3. Learn to be part of a consultation/liaison team and be able to work with members of other medical teams and other disciplines

#### Evaluation

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Supervising faculty will evaluate the student's clinical performance according to the elective objectives. In addition, the student will be required to evaluate the rotation as a learning experience.

Length: 4 to 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH; 2 at TVAH

### **MEL 8621 Mood Disorders Across the Life Cycle**

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Drs. Francisco Fernandez, M. Bengtson, Y. Bannon, RN, MS, CCRC

This elective is designed to provide interested senior medical students an intense clinical training and research in mood disorders. The student will become involved in individual and team evaluations of patients with cognitive and behavioral symptoms. They will be an integral part of the evaluation team, acting as primary patient evaluator, coordinator of collateral information and liaison with families, other medical disciplines and ancillary services. The student will spend the majority of the elective at the University Psychiatry Center and Silver Child Development Center, but may work at other facilities as well inclusive of Tampa General Hospital. Students with subspecialty interests may have other liaison and educational opportunities by individual request. In addition, students will participate in the monitoring of patients with Treatment Resistant Depression who neurostimulation (as with ECT or have been implanted with a vagal nerve stimulator).

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## Objectives

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1. Become more skilled in the evaluation of patients with mood disorders
2. Gain an increased understanding of mood disorders through systematic clinical training and didactic education
3. Become involved in and gain an understanding of collaborative, interdisciplinary clinical treatment team, understand the basis for interventional and laboratory techniques (inclusive of vagal nerve stimulation), and develop experience in the use of specific assessment instruments critical to diagnostic assessments
4. Prepare a publication based on his/her experience

## Evaluation

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The supervising faculty will evaluate the student's academic performance according to the elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of clinical and academic activities, a self-evaluation of what the he/she learned in the elective, and a critique of his/her elective experience.

Length: 4 to 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at UPC and/or Silver Child Development Center

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## MEL 8625 Motivational Interviewing in Medical Settings

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Dr. Mariann Suarez

***This is a half-time course which must be supplemented with another half-time course.***

This elective is designed to teach the Motivational Interviewing method for enhancing practitioner skills in health behavior interventions for working with ambivalent and difficult to treat adolescent and adult patients. Students will participate in didactic instruction, in-vivo role play, group discussion, video analysis, and may also choose to have practice encounters evaluated via audio taped practice.

## Objectives

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1. Review the empirical basis of Motivational Interviewing and become familiar with outcome research.
2. Learn basic Motivational Interviewing skills.
3. Practice Motivational Interviewing skills during in-vivo role plays and group practice sessions.
4. Conduct independent Motivational Interviewing and receive feedback on skills acquisition and implementation.

## Evaluation

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The supervising faculty will evaluate the student's performance according to elective objectives. In addition, the student will be required to prepare a written summary of the elective experience including a description of activities, a self-evaluation of what the student learned in the elective and a critique of his/her elective experience

Length: 4 weeks      Time(s): Half Time      Hours: 20 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 8 at UPC

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 8664 Psychiatric Research

Drs. Francisco Fernandez, C. Santana, Y. Bannon, Brian Giunta, Patrick Marsh, and Faculty

This elective is designed to enable the advanced student to become acquainted with the methodologies of behavioral medicine and their application in psychiatry and medicine. Admission to this elective requires the prior approval of the project by the Director of Medical Student Education. Each student will participate in an ongoing research project and/or an individual tutorial during this time under faculty supervision and review and will evaluate the literature that pertains to his/her chosen topic.

### Objectives

1. Increase the knowledge of psychiatry and behavioral medicine in an area of particular interest to the student
2. Become familiar with research methodology
3. Gain an enhanced perspective of the role of behavioral principles in the practice of psychiatry and medicine

### Evaluation

The research supervisor will evaluate the student's research performance according to the elective objectives. The student will also be expected to prepare a written summary of the research project including an appropriate review of the relevant literature and a description of the student's research activities. In addition, the student will provide the elective supervisor with a written critique of his/her elective experience.

Students must obtain permission from the department PRIOR to scheduling this elective.

Length: 4 to 8 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at UPC

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 8665 Molecular Genetic Research In Psychiatry

Drs. Patrick Marsh and Brian Giunta

This elective is designed to expose the student to current methodology, techniques and practice of molecular genetic research in psychiatry. Students will become familiar with the current theories for the genetic basis of psychiatric illness. Students will become familiar with the most common and advanced laboratory techniques used to investigate genetic hypotheses in psychiatric research. Students may participate in ongoing research in the genetics of Alzheimer's disease, schizophrenia, alcoholism, panic disorder, anorexia nervosa, and other neuropsychiatric disease.

### Objectives

1. Increase the student's knowledge of genetic theories of neuropsychiatric disorder
2. Expose the student to the principles and practice of molecular genetic research
3. Expose the student to the practical application of molecular genetics to the study of neuropsychiatric disorder
4. Expose the student to the use of informatics in the study of genetics of neuropsychiatric disorders

### Evaluation

The extent to which these objectives are reached will be evaluated by a research supervisor. A summary of completed research will be expected and may contribute to publications.

Length: 4 to 8 weeks    Time(s): Full Time    Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o

Availability: 1 at UPC

## MEL 8666 Neuroimmunology Research in Psychiatry

Drs. Jun Tan, Brian Giunta, and Francisco Fernandez

This elective is designed to teach medical students basic aspects of research in neuroimmunology. By working one-on-one with each student in the laboratory, the student will experience and learn the finer details of the technical aspects of experimentation (including immunohistochemistry, *in situ* hybridization, flow cytometry, western blot, northern blot, and RT-PCR, etc.). In addition, each student will participate in ongoing research in the Alzheimer's disease and HIV-cognitive disorders. Furthermore, the approach to teaching will allow for the interpretation of results from experimentation to be openly discussed by everyone involved in these ongoing projects.

### Objectives

1. Understand the basic tenets of the field of neuroimmunology
2. Obtain a basic understanding of the neuroimmunologic basis of Alzheimer's disease and HIV-cognitive disorders
3. Obtain the necessary basis for general scientific laboratory techniques.
4. Get hands on experience in molecular biology techniques
5. Develop experience in data acquisition and learn to critically analyze a data set
6. Complete a limited set of experiments as part of an ongoing project in the laboratory allowing the student to author a publication based on their project

**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Clinical experience will be optional and inclusive of participation in a Memory Disorders Clinic and Cognitive Medicine Program two half days per week. Neuropsychological, neuroradiological, and psychosocial manifestations will be correlated with clinical abnormalities in a staffing conference.

### Evaluation

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Evaluation will consist of observation and discussion with research and clinical faculty. A summary of the academic project of publishable quality is expected. The only prerequisite is the successful completion of the third year clerkship in Neuropsychiatry. The supervising faculty will evaluate the student's clinical performance according to the lecture objectives. In addition, the student will be required to prepare a written summary of the elective experience, including a description of clinical and academic activities, a self-evaluation of what the student learned on the elective, and a critique of his/her elective experience.

Length: 4 to 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 x

Availability: 2 at UPC

### **MEL 8667 Cognitive Medicine, Neuropsychiatry, and Neurosciences**

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Drs. Francisco Fernandez, M. Schoenberg, and Jun Tan

This elective is designed to provide interested senior medical students an intense clinical training and research in the neurosciences and neuropsychiatry. The student will have the opportunity to become involved in individual and team evaluations of patients with cognitive and behavioral symptomatology. He/She will be an integral part of the evaluation team, acting as primary patient evaluator, coordinator of collateral information, and as liaison with families, ancillary services, and other medical disciplines. The student will spend the majority of the elective at the University Psychiatry Center, but may work at other facilities as well. Students with subspecialty interests may have other liaison and educational opportunities by individual request. In addition, the student will participate in ongoing laboratory research in Alzheimer's disease and HIV-cognitive disorders inclusive of learning the finer details of the technical aspects of experimentation.

### Objectives

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1. Become more skilled in the evaluation of patients with cognitive and other neuropsychiatric disorders
2. Increased understanding of neuropsychiatry through systematic clinical training and didactic education
3. Become involved in and gain an understanding of collaborative, interdisciplinary research, understand the basis for general scientific laboratory techniques, and develop experience in data acquisition and data analysis. This involvement (both basic and clinical) will, in turn, serve as a model for their professional careers.
4. Obtain a basic understanding of the neuroimmunological basis of Alzheimer's disease and HIV-related cognitive disorders
5. Prepare a publication based on the experience

### Evaluation

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The supervising faculty will evaluate the student's clinical performance according to the lecture objectives. In addition, the student will be required to prepare a written summary of the elective experience, including a description of clinical and academic activities, a self-evaluation of what the student learned on the elective, and a critique of his/her elective experience.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 to 8 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 x

Availability: 2 at UPC

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### **MEL 8686 Neuropsychopharmacology**

Drs. Lynn Wecker and Francisco Fernandez

This elective is designed to provide students with the most up-to-date information on theories and drug targets for neuropsychiatric disorders, and how laboratory research is used to advance our knowledge in the field. Students will participate in laboratory discussions and experimentation and learn how current clinical findings and drug responses provide insight to the etiology of schizophrenia, depression and addiction. Students will experience the technical aspects of experimentation in this field and will work with laboratory animal models and learn how to measure and analyze behaviors, and how to probe for cellular and molecular alterations in transcription factors thought to underlie these conditions using the latest laboratory techniques.

#### Objectives

1. Understand the basic tenets of neuropsychopharmacology research
2. Understand the current cellular and molecular alterations thought to underlie the manifestation of schizophrenia, depression, and addiction
3. Appreciate how clinical observations of drug responses provide insight to the etiology of these disorders
4. Obtain hands-on experience in behavioral and molecular techniques and learn how to analyze data obtained from these experiments
5. Appreciate the translation of research from "bench to bedside"

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 5 at USF-MS

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### **MEL 9999Y Independent Study in Psychiatry**

Dr. Francisco Fernandez

Course of study will be determined by Faculty member and student. Example areas of study include psychopharmacology, neuropsychiatry, psychotherapy, child psychiatry, forensic psychiatry, and cognition, memory and aging. Students must obtain permission from the supervising faculty and the Chair of the Department PRIOR to scheduling this elective.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

**MEL 7320R**            **Externship in Radiology**  
**MEL 7703**            **Vascular Radiology**  
**MEL 7704**            **Diagnostic Radiology**

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**MEL 7320R Externship in Radiology**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

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**MEL 7703 Vascular Radiology**

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Dr. Bruce Zwiebel

Diagnostic and therapeutic methodologies in vascular radiology will be studied in this elective. The primary objective of this elective is to introduce the student to this specialized area of radiology and to help him/her evaluate the appropriateness of these techniques in patient management. Emphasis will be placed on interventional techniques and their realistic place in the therapeutic armamentarium available for patient care. During this elective, a project will be undertaken under the supervision of one of the instructors. The elective is offered at the Veteran's Administration Hospital (Dr. Farber) and Tampa General Hospital (Dr. Black).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

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**MEL 7704 Diagnostic Radiology**

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Dr. Todd Hazelton

This elective is an introduction to basic diagnostic radiology principles. Each student will participate the activities of the department through clinical rotations in the chest, body computed tomography, emergency radiology, musculoskeletal radiology, nuclear medicine, ultrasound, neuroradiology, and interventional radiology sections at Tampa General Hospital. A series of conferences and lectures in diagnostic radiology will be presented to provide a background for students planning to practice in diagnostic radiology itself or in other medical specialties. Each student will prepare and present a PowerPoint presentation on a topic in diagnostic radiology. Students interested in radiology as a career should also attend daily resident case conferences as well as various clinical conferences.

Registration preference for periods 1-4 will be given to students interested in applying to Radiology as a specialty.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 x 6 o 7 x 8 o 9 x 10 o 11 x

Availability: 8 at TGH

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**MEL 9999R Independent Study in Radiology**

Faculty

Independent study in diagnostic radiology is offered for those students who wish to spend additional learning time in a focused area of clinical or research in diagnostic radiology.

Length: 4 weeks      Time(s): Full Time      Hours: variable

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

MEL 7320S	Externship in Surgery
MEL 7801	General Surgery Preceptorship - University Based
MEL 7803	Plastic Surgery - Hospital Based
MEL 7805	Trauma Surgery Elective
MEL 7815	Honors Course in Surgery
MEL 7818	Pediatric Surgery Elective
MEL 7819	Surgical Transplant Elective
MEL 7822	Clinical Urology Elective
MEL 7828	Vascular Surgery Elective
MEL 7884	Vascular Surgery Research Elective
MEL 8811	General Surgery Acting Internship
MEL 9999S	Independent Study in Surgery

FINAL ARRANGEMENTS CONCERNING COURSE LOCATION/PRECEPTOR WILL BE MADE BY THE MEDICAL STUDENT COORDINATOR (974-0078).

## **MEL 7320S Externship in Surgery**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: No Limit at EXT

## **MEL 7801 General Surgery Preceptorship - University Based**

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Dr. Albrink, Frattini, Marcet, Rosemurgy, Goldin, Jaffray, Murr, Ross, Shapiro, and Gallagher

Students electing this course will be assigned individually to senior members of the surgical staff of Tampa General Hospital. During their time on such service, they will work directly with their preceptor, seeing patients in the office, making rounds regularly, and following patients on the service in the hospital concerned. The student will have the opportunity to gain an intimate view of the academic practice of surgery through participation in the preliminary office work-up, hospital course, and follow-up of selected patients from the practice of the doctor assigned. The objective of this elective is two-fold: to give an intimate acquaintance with the academic practice of surgery and to further contribute to the student's understanding of surgical disease in all of its aspects.

All requests for preceptors must be pre-approved by the electives coordinator. Special requests for this elective during Periods 2 and 3 should be directed to the electives coordinator.

### Evaluation

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Students will be evaluated based on their ward performance.

This elective is NOT available to visiting students.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Full Time      Hours: 60-70 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 4 at TGH

### **MEL 7803 Plastic Surgery - Hospital Based (TGH)**

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Drs. David Smith, Wayne Cruse, Rami Ghurani, and Paul Smith

This elective provides the opportunity to participate in the active "hands-on" care of plastic surgery patients including critically ill burned patients. The student is under the direct supervision of the faculty in the intensive care unit, operating room, and outpatient follow-up care. No night call is required.

#### **Evaluation**

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Evaluation will be completed by direct observation. There will be no examination. Special requests for this elective during Period 2 & 3 should be directed to the electives coordinator.

Length: 4 weeks      Time(s): Full Time      Hours: 60-70 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at TGH

### **MEL 7805 Trauma Surgery Elective**

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Dr. David Shapiro and Trauma Surgery Faculty

Students electing this course will work with the residents and faculty in the Division of Trauma in the surgical ICU, floors, ER and OR at TGH. The trauma surgeon emerges as the last of the classical general surgeons. We see the entire spectrum of elective general surgery cases in the clinics and the urgent and emergent cases that are seen in consultation on the regular patient units as well as the ER. This includes patient with appendicitis, biliary disease, bowel obstruction GI bleeding to name a few. In addition the surgeons on our service are able to care for the victim of blunt and penetrating trauma. Therein lies the drama and excitement of the trauma bay. It is the best of rotations embracing general and trauma surgery and critical care.

The student will participate as a member of the trauma team in all these endeavors and become conversant in the initial assessment and resuscitation of the trauma patient, critical care and post operative management. At least a 1-week rotation on nights will be required. What greater challenge is there than to join with the team in the trauma bay and feel confident with your ability to manage the care of a badly injured patient? The lessons learned here will serve you well no matter what your ultimate career decision.

#### **Evaluation**

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Students will be evaluated based on their clinical performance

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Length: 4 weeks      Time(s): Fulltime      Hours: 60-70/week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

This course might be available to USF students during Period 2 or 3. Students should check with the electives coordinator for special consideration.

Availability: 3 at TGH

### **MEL 7815 Honors Course in Surgery**

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Dr. Steven Goldin and the General Surgical Faculty

All students are eligible to apply for acceptance into the Honors Course in Surgery. A sincere desire to pursue a surgical career is necessary for admittance into the course. Although the course is designed primarily for those interested in general surgery, applications will be considered for those students with an interest in the sub-specialties. Honors in the clinical year is not mandatory. The course is a two-month block, available during elective period one, two, and three. Interested students must contact Heather Borgman at (813) 974-0078 and submit an application form.

The four-week laboratory segment in surgical technique is only offered during Period 1 and is designed to teach the student basic surgical skills with hands-on training. Emphasis is placed on surgical principles, technique, and anatomy. Progressively more complex procedures are performed. Students alternate roles between being the operative surgeon and the first assistant.

An additional four-week clinical experience (during period two or three) is also required with the preceptor of the student's choice in the surgical disciplines.

This elective must be scheduled through the Registrar's Office, with prior acceptance to the course through application.

This elective is NOT available to visiting students.

Length: 8 weeks      Time(s): Full Time      Hours: 60-70 per week

Months: 1 o 2 s 3 s 4 x 5 x 6 x 7 x 8 x 9 x 10 x 11 x

Availability: 10 at USF-MS

### **MEL 7818 Pediatric Surgery Elective**

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Dr. Charles Paidas

This elective will provide the student with a full range of clinical problems involved in the practice of pediatric surgery. In addition, the student will take direction from the attending and work closely with the general surgical resident rotating through the Pediatric Surgical Service. The student will have clinical contact, including patient work-ups, pre- and post-operative care, and will be carefully monitored by the staff. In addition, time in the operating room will provide an exposure to a variety of pediatric surgical problems. This surgical elective will be conducted at The Tampa General Hospital and will include attending related conferences at The College of

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

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**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

Medicine. Night duty will be on an on-call basis in association with the residents rotating through the service. The objective of this course is a broad exposure to pediatric surgery. This will involve hands-on care of the pediatric surgical patients under close supervision of both the resident and attending. In addition, participation in conferences, didactic lectures, and other teaching opportunities will be available while the clerk is rotating on the service.

#### Evaluation

Students will be evaluated based on ward performance. Special requests for this elective during Periods 2 and 3 should be directed to the electives coordinator.

Length: 4 weeks      Time(s): Full Time      Hours: 60-70 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH

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### **MEL 7819 Surgical Transplant Elective**

Dr. Victor Bowers and Faculty

Students will work under the direct supervision of the Director of Transplant Surgery, LifeLink Transplantation Institute, Inc. They will gain insight and experience in the area of transplantation immunology tissue typing and the concepts of histocompatibility antigens.

This elective is designed to offer students active participation in organ procurement, the harvesting and preservation of kidneys and livers, and an understanding of the role of the organ sharing networks.

Students will be directly involved with the evaluation and work-up of possible renal and liver transplant recipients, observe surgery, and play an active role in the postoperative management of transplant patients, particularly identification, management and treatment of infections, and rejection complications.

Students will receive an overview of all aspects involved in liver and renal transplantation, from donor identification through clinical transplantation and long term follow-up.

#### Evaluation

Students will be evaluated based on their ward performance. Special requests for this elective during Periods 2 and 3 should be directed to the electives coordinator.

Length: 4 weeks      Time(s): Full Time      Hours: 60-70 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 1 at TGH

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

## MEL 7822 Clinical Urology Elective

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Dr. Jorge Lockart and Faculty

For additional information regarding this elective, please contact Edyth Roberts at (813) 541-7391 or [erobert@health.usf.edu](mailto:erobert@health.usf.edu).

The Division of Urology, at the University of South Florida provides comprehensive, urologic patient-oriented care with concern for quality of life and education. Physicians and staff provide state-of-the art multidisciplinary patient care while striving to blend compassion, technology and advanced techniques.

The elective is an introduction to basic urology with emphasis on clinical service designed to provide a background for students planning to practice in related. Students will be assigned to preceptors and rotate at the H. Lee Moffitt Cancer Center, and the Tampa General Hospital. The clinic rotations will be designed at a level of learning for medical students. During the rotation students will be supervised and instructed on a one-to-one basis by their preceptor(s), fellows, residents, and other qualified faculty responsible for teaching and evaluation.

Students will participate in the pre-operative work-up of urological patients. Students will learn from attending faculty and residents alike. Participation in cystoscopy and surgical procedures will form a significant part of the experience provided on this rotation. Students will follow patients to the operating room; assist in the procedures carried out, and will share in the responsibilities for post-operative care. Participation in the evaluation and treatment of common urological problems in the outpatient clinics will give the student an overall understanding of office urology. Students will attend and participate in all conferences and activities of the Urology Service and perform such activities assigned as a part of their added learning experience.

The objectives of this rotation are to provide exposure to the field of Urology as a background for practice in other areas and to offer closer acquaintance with this field for those considering it for possible future specialization.

### Evaluation

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Students will be evaluated based on their ward performance and oral examination.

Length: 4 weeks      Time(s): Full Time      Hours: 50 per week

Months: 1 x 2 x 3 o 4 o 5 x 6 x 7 x 8 x 9 x 10 x 11 x

Availability: 1 at TGH; 1 at MCC

## MEL 7828 Vascular Surgery Elective

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Dr. Bandyk and Faculty

During this elective the student will participate in clinical care involving the Vascular Surgery Service at Tampa General Hospital. The student will work closely with the vascular surgery resident in preoperative, operative, and postoperative patient management and will attend outpatient clinics at the USF Medical Clinics with full time faculty members.

The student will also gain exposure to noninvasive vascular diagnosis in the Tampa General Vascular Diagnostic Center. Interpretation of physiologic data relative to angiographic findings and clinical symptoms will be emphasized. This rotation should provide the student with a broad exposure to clinical presentation, diagnostic

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

evaluation, and operative and non-operative therapy for a wide variety of arterial and venous diseases.

#### Evaluation

Students will be evaluated based on their ward performance and oral examination. . Special requests for this elective during Period 2 & 3 should be directed to the electives coordinator.

Length: 4 weeks      Time(s): Full Time      Hours: 60 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 2 at TGH

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#### **MEL 7884    Vascular Surgery Research Elective**

Drs. Bandyk and Faculty

This elective is designed to allow students an exposure to research in vascular diagnosis and fundamental problems in vascular disease. Current ongoing research projects include insite replacement of infected vascular prostheses, immune-response to bacterial biofilms, hemodynamic factors modulating myointimal hyperplasia, color duplex ultrasonography for pre- and intraoperative diagnosis, and noninvasive bypass graft surveillance. This elective provides the student with an opportunity to have hands-on experience with instrumentation which maps arterial and venous flow fields, participate in surgical procedures, and analyze the outcome of arterial reconstructions. Vascular research experience provides further development of surgical technique and diagnostic skills as well as in-depth exposure to academic medicine. Students will be expected to read and participate in one area of research with effort rewarded by co-authorship on any published data generated.

#### Evaluation

Students will be evaluated based on their laboratory performance and an oral presentation at the Vascular Surgery Conference.

This elective is NOT available to visiting students.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 x

Availability: 1 at USF-MS

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#### **MEL 8811    General Surgery Acting Internship/Sub internship**

Dr. Steven Goldin and Faculty

This elective places the senior student on the General Surgical Service of their choice, in the role of "intern." Responsibility will vary with the ability of each student, but the intent is for the student to assume all responsibilities usually assumed by an intern. The elective will afford the student an in-depth experience in total patient management so that these responsibilities may be assumed with confidence in the internship year, regardless of career field choice.

Attendance will be required at Grand Rounds, Morbidity, and Mortality Conference, and various other conferences. The student will perform histories and physical examinations, write all progress notes, and all orders

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

**Availability:** The number of students able to take an elective at an offered site during any month the elective is open. Site codes are listed on [http://hsc.usf.edu/medicine/registrar/new/course\\_key.htm](http://hsc.usf.edu/medicine/registrar/new/course_key.htm).

for diagnostic and therapeutic intervention with supervision from house staff. Students will be encouraged to perform procedures such as CVP placement, invasive monitoring line placement, chest tube placement, etc. Operating room experience will be extensive, and students can expect to participate with the operative intervention at the discretion of the operating surgeon.

#### Evaluation

Students will be evaluated based on their ward performance. Special requests for this elective during Periods 2 and 3 should be directed to the electives coordinator.

Length: 4 weeks      Time(s): Full Time      Hours: 70 per week

Months: 1 o 2 x 3 x 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 3 at TGH; 1 at BP-VAH

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#### **MEL 9999S Independent Study in Surgery**

General Surgery Faculty

The objective of this course is to help the student understand the scientific basis and general principles of research in the field of General Surgery. This is accomplished by introducing him/her to the theoretical and practical aspects of conducting experimental and clinical research. Students may participate in an ongoing research project under close supervision by the primary faculty investigator based on availability and prior approval of the investigator. The involvement in research during this course will improve the student's ability to evaluate results published by other investigators and to develop the intellectual tools necessary for initiating research of his/her own. Students will be expected to read and participate in the research with effort rewarded by co-authorship on published data generated.

This elective is NOT available to visiting students.

Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 x

Availability: No Limit at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

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## REQUIRED CLERKSHIPS

<b>BCC 8116</b>	<b>Skin and Bones Medicine Clerkship</b>
<b>BCC 8117</b>	<b>Oncology Clerkship</b>
<b>BCC 8190</b>	<b>Critical Care Senior Clerkship</b>

### **BCC 8116 Skin and Bones Medicine Clerkship**

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Drs. Joanne Valeriano, Mary Lien, Helen Bateman, Eric Coris, Micki Cuppett, and Faculty

Skin & Bones is a multidisciplinary four-week clerkship designed to enhance the student's competence in recognition, diagnosis, and treatment of musculoskeletal, rheumatologic, and dermatologic disorders. Students participate in clinical experiences in all three disciplines and are given instruction in various techniques used in these specialties followed by practice sessions in workshop format. In addition, students are exposed to therapy and rehabilitation techniques for musculoskeletal disorders. More than 20 hours of hands-on workshops include:

1. Musculoskeletal lectures followed by skills sessions (foot, ankle, knee, hip, cervical spine, shoulder, elbow, wrist and hand)
2. Demonstration and practice of rheumatologic exams utilizing standardized patients with actual rheumatologic conditions
3. Skin biopsy and suturing workshop utilizing pig's feet
4. Injection and aspiration workshop utilizing injection models
5. Musculoskeletal radiology lecture (x-ray, MRI, CT scan)
6. Arthur, an interactive learning tool, which allows students the ability to construct differential diagnoses and identify joint pattern recognition for the most common musculoskeletal diseases.

#### Objectives

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1. Perform an appropriate history and physical examination on patients with common systemic rheumatologic disease, dermatologic, orthopedic and other musculoskeletal conditions.
2. Recognize the clinical, laboratory, and radiographic features of the more common rheumatologic, dermatologic, orthopedic and musculoskeletal diseases
3. Understand the pathophysiology of the common rheumatologic, dermatologic, orthopedic, and musculoskeletal diagnoses.
4. Construct an appropriate differential diagnosis when evaluating patients with systemic rheumatic disease, dermatologic, orthopedic, and other musculoskeletal conditions
5. Apply the skills and medical knowledge learned during the didactic sessions to evaluate patients in rheumatology, dermatology, orthopedics, and sports medicine clinics and design an appropriate differential diagnosis, and diagnostic and therapeutic plans for the more common conditions.

Length: 4 weeks      Time(s): Full Time      Hours: 50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 12 at USF-MS

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## BCC 8117 Interdisciplinary Oncology Clerkship

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Dr. Dessureault and Faculty

In this four-week required course all students will be expected to learn the fundamental principles of oncology and the multidisciplinary approach to the prevention, diagnosis, treatment, and rehabilitation of cancer patients.

Students will be expected to know the natural history of common cancers (e.g. breast, lung, colorectal) and be familiar with the diagnosis and management of individual cancer patients at the time of diagnosis and throughout the course of their disease.

Students will be expected to understand the concept and significance of staging. They will be expected to have a basic knowledge of cancer treatment modalities, including surgery, radiotherapy, chemotherapy, immunotherapy, and endocrine therapy. They will require an understanding of the fundamental biology of cancer, carcinogenesis, epidemiology, tumor markers, tumor pathology, clinical pharmacology, tumor immunology, and endocrinology, as well as an understanding of potential benefits and complications of multimodality therapy. They will be expected to understand the causes of pain and suffering in cancer patients and be familiar with the appropriate treatment options for palliation of symptoms. Students will also be expected to have sufficient familiarity with statistical methods to properly evaluate results of published research studies.

The course will consist of a) a preceptor-based rotation in one of the clinical programs at the Moffitt Cancer Center & Research Institute; b) a core curriculum of lectures, student "mock" tumor boards, small group seminars, student presentations, and journal clubs; and c) a required set of select experiences critical to the full understanding of total cancer care. Students will be evaluated by a written examination, by their preceptor, and by participation in core activities and required experiences.

Length: 4 weeks      Time(s): Full Time      Hours: 50 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: 12 at USF-MS

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

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## BCC 8190 Critical Care Senior Clerkship

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Dr. Cox and Faculty

The goals of this course are to develop an approach to the care of patients with complex, critical illnesses; to understand the physiologic and pathologic abnormalities that occur in ICU patients; and to apply science principles basic to the practice of medicine in the clinical management of complex illness.

After being exposed to critical care patients in a variety of disciplines, the student should demonstrate specific knowledge, skills, and attitudes relevant to critical care practice. The student should demonstrate an understanding of critical care necessary for medical practice so that students can recognize patients with immediately life threatening conditions, institute appropriate initial therapy, and outline an initial course of management for patients with serious conditions requiring critical care.

This course is required for USF senior medical students and will include a rotation through the MICU, Pulmonary/Critical Care Consult ICU, Anesthesia Critical Care or Surgical/Trauma ICU. Students will be evaluated by written, oral, and/or practical methods which include direct patient contact and simulation training. In addition, the students will evaluate electro-cardiograph (ECG) tracings through weekly quizzes to enhance interpretation skills.

Length: 4 weeks                      Time(s): Full Time                      Hours: 80 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 x 8 o 9 o 10 o 11 o

Availability: Min of 10 and Max of 12 at USF-MS

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**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

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## INTERDEPARTMENTAL ELECTIVES

<b>MEL 7320G</b>	<b>Externship in Basic Science</b>
<b>MEL 7740</b>	<b>Radiation Oncology</b>
<b>MEL 7954</b>	<b>Medical Education Elective</b>
<b>MEL 8939</b>	<b>Clinical Science Review</b>
<b>MEL 8956</b>	<b>Multidisciplinary Course in Patient Safety</b>
<b>MEL 8965</b>	<b>Theory and Practice of Teaching</b>
<b>MEL 9999G</b>	<b>Independent Study in Basic Science</b>
<b>MEL INT</b>	<b>Interview Month</b>

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### **MEL 7320G Externship Basic Science**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 x 9 x 10 x 11 x

Availability: Determined by need

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### **MEL 7740 Radiation Oncology**

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Drs. Harris, Stevens, Dilling, Trotti, Berk, Hoffe, Heysek, Chinnaiyan, Yu, Torres-Roca, McBride, Biagioli, Rao

The Department of Radiation Oncology, Moffitt Cancer Center, provides comprehensive, patient-oriented care for all types and stages of cancer using the most technically advanced equipment with concern for quality of life and education. Physicians and staff provide state-of-the art multidisciplinary patient care while striving to blend compassion, technology and advanced techniques.

This elective is an introduction to basic Radiation Oncology with emphasis on clinical service designed to provide a background for students planning to practice in related oncology fields or in Radiation Oncology. Students will be assigned to one or two preceptors and will learn about the various Radiation Oncology applications to a wide range of disease sites. The clinic rotations will be designed at a level of learning for medical students. During the rotation students will be supervised and instructed on a one-to-one basis by their preceptor(s), residents, fellows and other qualified faculty responsible for teaching and evaluation.

Medical Students will participate in all aspects of Radiation Oncology including clinical treatment planning, treatment delivery, medical physics, dosimetry, simulation, and port film evaluation. Students will understand the natural history of cancers, the role of radiation therapy in the treatment of cancer, general principles of oncology, basic radiation safety, multidisciplinary patient care, specialized treatment procedures, clinic structure and supportive care. Students will learn how to conduct a thorough history and physical examination and how to examine patients to assess tumor response and progression. To enhance the clinical experience and further knowledge, students will be required to do some reading of textbooks and the medical literature as assigned by their preceptor(s). In addition, students will attend regularly scheduled tumor board conferences and didactic programs as assigned by their preceptor(s).

Rotation requirements:

1. Read at least 10 pertinent articles from the medical literature.
2. Attend all departmental conferences and multidisciplinary conferences with the preceptors.
3. Participate in simulations, procedures, follow-ups, on treatment visits and treatment planning.

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**Length:** The length of time a student will be in the elective: 4 weeks = one elective period. 4 to 8 weeks indicates the elective can be taken for 1 or 2 elective periods.

**Time(s):** Half-time elective or full-time elective. Two half-time electives OR one full-time elective must be selected for each elective period.

**Hours:** The approximate hours per week the student will be involved with this elective.

**Months:** Each month (1-11) is designated as: o = Open, x = Closed, s = not able to start during this month; this designation is used for electives of length greater than four weeks.

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4. Complete at least 4 history and physical exam documents on new patients consults seen with the preceptors.
5. Complete a treatment planning project. All requirements must be reviewed with the preceptors for evaluation and feedback.

At the completion of the elective, training faculty and students will complete performance evaluations.

Length: 4 weeks      Time(s): Full time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 x 7 o 8 o 9 o 10 o 11 o

Availability: 2 at MCC

## **MEL 7954 Medical Education Elective**

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Dr. Bowers

Please submit a brief email to Dr. Bowers prior to signing up for this elective indicating interest in the elective as well as the specialty you would like to work in. Requests to add the course must be received at least 2 months prior to the start date.

This elective is designed to introduce senior medical students to the role of an academic physician across disciplines as well as encourage the exploration of positive teaching practices. All graduating medical students will step into the role of a clinical educator when they begin residency and this course will allow them to learn basic teaching strategies. Weekly group meetings will be held to review and discuss various teaching practices. Students will then have a chance to put these techniques to use by working with junior medical students in both physical diagnosis and clinical settings (LCE, Bridge clinic, JC clinic)

### Objectives

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1. Demonstrate delivering instructive feedback.
2. List several techniques that can be used when dealing with difficult learners.
3. Employ the one minute preceptor in a clinical setting
4. Demonstrate the brief structured observation in a clinical setting.
5. Assume teaching responsibilities and acquire the knowledge to improve their current teaching skills
6. Describe the role of an academic physician
7. Collaborate with students interested in various areas of medicine to develop excellent pedagogical skills and while doing so enhance cooperation among disciplines

### Learning Outcomes

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By the end of this elective, the student should better understand basic principles of teaching and providing constructive feedback as well as strengthening their clinical acumen.

### Evaluation

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Evaluation will be based on:

1. Active participation in teaching seminars
2. Attendance at all scheduled clinical sites

Grading is Satisfactory/Unsatisfactory (S/U)

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Available sites are dependent on the clinical discipline selected.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 x 2 x 3 x 4 x 5 x 6 x 7 x 8 x 9 o 10 x 11 x

Availability: 6 at USF-MS

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### **MEL 8939 Clinical Science Review**

Faculty

The Clinical Science Review I and II course is a variable contact hour multi-disciplinary course for medical students. This comprehensive course will consist of an in-depth review and application in the clinical science areas and will include basic science review if deemed appropriate. This course is for remedial work *only*.

#### Section I

Emergent and Urgent Care Clerkship  
Integrated Internal Medicine-Pediatrics Clerkship  
Maternal Newborn Health Clerkship  
Neuropsychiatry Clerkship  
Primary Care and Special Populations Clerkship  
Surgical Care Clerkship

#### Section II

Additional areas not identified in Section I above.

The course objective is to enhance clinical skills in any of the listed Clinical Sciences.

Length: 4 weeks      Time(s): Full Time      Hours: 40 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 x 8 x 9 x 10 x 11 x

Availability: Determined by need

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### **MEL 8956 Multidisciplinary Course in Patient Safety**

Drs. Peter J. Fabri, Karen Liller, and Jose Zayas-Castro

This is an innovative, experimental course. Selected senior medical students, together with graduate students from engineering, nursing, and public health, will explore concepts of human error, patient safety, and related healthcare quality issues through a series of weekly seminars over three months. In addition, students will work in small interdisciplinary groups, together with faculty and staff from Tampa General Hospital and all four colleges, to identify and analyze a real patient safety problem and develop a solution. Students will develop a comprehensive understanding of the science relating to human error in general and human factors in particular, will master several critical skills in problem solving and error analysis, and will improve their skills in working together with other professionals in the collaborative resolution of a complex problem. Medical Students will receive credit for one block rotation, although the time commitment will be approximately 6 hours per week for three months (3 hours of seminar and 3 hours of small group work.) Invited experts will give many of the seminars, together with USF faculty from the four colleges. Each interdisciplinary group will be asked to give a

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summary presentation of their work and submit a referenced paper describing the project.

### Objectives

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1. Explain the psychologic basis of human error
2. Summarize our understanding of error in medical practice
3. Explain the classification of medical error in at least one specialty of medical practice
4. Identify and analyze an actual patient safety problem at Tampa General Hospital
5. Perform a root cause analysis of a medical error
6. As a member of an interdisciplinary team, provide a feasible solution to a real patient safety problem

### Evaluation

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The student will be evaluated by course faculty, based on participation in class seminars and on the submitted interdisciplinary patient safety project.

Interested students must meet with Dr. Fabri prior to August 1, 2008. Students should be prepared to describe why they should be selected for the course.

Length: 12 weeks      Time(s): Full Time      Hours: 6 per week

Months: 1 x 2 x 3 x 4 o 5 s 6 s 7 x 8 x 9 x 10 x 11 x

Availability: 10 at USFMS

## **MEL 8965 Theory and Practice of Teaching**

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Dr. Frazier Stevenson

This elective will introduce senior students to the practice and theory of adult education. They will teach for 70 hours in the College of Medicine in basic and clinical sciences, paired with seminars that introduce them to education pedagogy and effective teaching technique. They will reflect and write on their teaching experience, and receive feedback from students, course faculty, and the elective director about their teaching performance. The course is longitudinal, so teaching activities can occur throughout the senior year, tailored to students' individual schedules.

### Objectives

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1. Develop the practice of good clinical and small group medical school teaching
2. Understand the theory of adult education
3. Reflect on teaching experiences in written and verbal media
4. Be able to deliver effective feedback to students and peers

### Evaluation

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By the end of the elective, students should feel competent to teach in both small group and clinical teaching settings. They will understand how to give feedback to individuals. Their progress will be assessed by review of student teaching evaluations, observation of COM course leaders, and direct observation by the elective director.

All interested students must meet with and get approval from Dr. Stevenson before registration. Students must agree to hours requirements and need to inform concurrent senior course directors of their involvement in this longitudinal course.

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Length: 40 weeks      Time(s): Full Time      Hours: 4 per week

Months: Year long

Availability: 10 at USFMS

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**MEL 9999G Independent Study in Basic Science**

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Length: 4 weeks      Time(s): Full Time      Hours: 44 per week

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: Determined by need

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**MEL INT Interview Month**

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This course number is designated for students to utilize when scheduling interviews, studying for the USMLE Step II Exam, or for participating in research experiences.

Length: 4 weeks

Months: 1 o 2 o 3 o 4 o 5 o 6 o 7 o 8 o 9 o 10 o 11 o

Availability: No limit at USF-MS

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