



**Marshall University Joan C. Edwards  
School of Medicine**

**Visiting Student Elective Catalog**

## **FAMILY MEDICINE**

### **FCH 800 - Outpatient Family Medicine**

#### **Course length: 2 – 4 Weeks**

Since electives will be available at a variety of family medicine sites, including community health centers as well as private family practitioners' offices, experiences will vary with the location. Students will be assigned to sites based upon student interest and site availability. Students will work under the direct supervision of clinical faculty and residents. They will obtain appropriate histories and complete indicated physical exams, develop a working assessment and initiate management of patients of all ages with acute and chronic illnesses. Students will participate in health promotion and disease prevention needs of presenting patients. Proper documentation of all patient encounters will be completed by students where appropriate.

### **FCH 827 - Sub-internship in Family Medicine**

#### **Course length: 2 – 4 Weeks**

Students will perform at the level of an acting intern on the busy and lively family practice inpatient team. Patients followed by the family practice hospital service include newborn infants, children, adults, and critical care patients (ICU/CCU) in a 350-bed hospital. The sub-intern will perform admission histories and physicals on hospitalized patients and then function as the patients' primary physician during the hospitalization under the close supervision of the chief residents and attending. The sub-intern will present his or her patients daily at a resident-directed, dynamic morning rounds. He or she assumes responsibility for ordering and interpreting laboratory data, choosing suitable treatments and communicating with patients and their families. Students are expected to follow a minimum of 2 patients daily while on the service. Attendance at weekly Family Practice Grand Rounds is required (90 minutes every Thursday afternoon, lunch is provided). Night call will be assigned to average every fourth to fifth night.

### **FCH 888 - Rural Family Medicine**

#### **Course length: 2 – 4 Weeks**

Since electives will be available at a variety of rural sites, including community health centers as well as private family practitioners' offices, experiences will vary with the location. Students may be primarily involved in office-based patient care or may have a more varied experience combining outpatient care, emergency room evaluation of patients and inpatient care of hospitalized patients. Students will be assigned to sites based upon student interest and site availability. Students will work under the direct supervision of clinical faculty and residents. They will obtain appropriate histories and complete indicated physical exams, develop a working assessment and initiate management of patients of all ages with acute and chronic illnesses in a rural setting. Students will participate in health promotion and disease prevention needs of presenting patients. Proper documentation of all patient encounters will be completed by students where appropriate. Students will also be involved in a community service project as well. Requirement for night call varies with the site.

## **INTERNAL MEDICINE**

### **MED 805 - Clinical Endocrinology and Metabolism**

#### **Course length: 2 Weeks**

This elective in Huntington provides an opportunity for medical students to develop their clinical skills and expertise in diabetes, thyroid disease and other endocrine diseases. The student will participate as a member of the team consisting of full-time faculty endocrinologists, the fellow in Endocrinology, the resident assigned on the Endocrinology Service, and the medical student on the elective. The medical student works closely with the faculty endocrinologist who will make patient rounds daily. The student attends outpatient endocrinology clinics two half-days a week for training in the management of endocrinology problems in ambulatory patients. A variety of educational conferences are scheduled including endocrinology clinical case conference, endocrinology lectures, and other meetings to which the student is invited. About forty percent of the student's time will be spent directly or indirectly in ambulatory care.

### **MED 807 – Gastroenterology**

#### **Course length: 2 Weeks**

This elective will introduce the student to clinical gastroenterology. The student will be integrated into a clinical rotation similar to that of the interns whereby he or she is responsible for the consultation history and physical examination of a hospitalized patient for whom the primary service has requested a GI consultation. The student will be expected to discuss the case with the fellow or faculty, review the scientific literature pertinent to the case, and finally present the case to the attending during rounds. The student will make daily rounds with the house staff and attending on all patients on the GI Service, will attend all of the GI-oriented conferences, and Grand Rounds and may be asked to participate in one during his or her period of time here. Students will be introduced to the procedural aspects of gastroenterology, including upper endoscopy and colonoscopy, and will have the opportunity to observe these in both his or her patients and others. There will be a strong interaction between the student and the other services that share in the management of gastroenterology patients, such as general and colorectal surgery, critical care, pathology, and radiology.

### **MED 811 - Hematology/Medical-Oncology**

#### **Course length: 2 Weeks**

This elective provide the student with experience in the diagnosis and management of hematological and oncological problems both in the inpatient and outpatient clinic setting. These include anemia, coagulation disorders and hematological and solid neoplasms. Special instruction includes the focused physical examination techniques appropriate to blood disorders and neoplasia, bone marrow aspiration under supervision, the microscopic evaluation of peripheral blood and bone marrows, and treatment planning. For students electing a longer rotation, emphasis will be on continuity of care and modalities of support appropriate to on-going disorders.

### **MED 813 - Infectious Disease**

#### **Course length: 2 Weeks**

Infectious diseases have plagued mankind since the beginning of time. In the 21st century, the morbidity and mortality attributable to infectious diseases continues to be a major threat to human health and well-being. Future physicians should have the knowledge and skills to diagnose and manage infections commonly encountered in their practice. In this rotation, fourth year students will acquire knowledge and skills in the evaluation and treatment of infected patients. Special emphasis will be placed in the development of a rational approach to antimicrobial use and

infection prevention. Students will be exposed to outpatient infectious disease evaluation and management at the Byrd Clinical Center, participate in the Sexually Transmitted Diseases Clinic and Tuberculosis Clinic at the Cabell-Huntington Health Department and be involved in inpatient consults at Cabell-Huntington Hospital (CHH) and St. Mary's Medical Center (SMMC).

### **MED 817 - Clinical Nephrology**

#### **Course length: 2 Weeks**

Renal disorders are common in general population. These problems are frequently seen as a complication of common diseases such as diabetes mellitus and hypertension which are prevalent in the community. In conjunction with intrinsic renal pathology, kidneys may be affected by numerous other diseases, as well as due to exposure to toxins and various medications. This elective offers students the opportunity to evaluate and manage patients with common renal problems, including acute and chronic renal failure, fluid and electrolyte abnormalities, hypertension, hemodialysis and transplantation. Students are assigned to an inpatient nephrology unit and round daily with the resident and nephrologist. It will be a mixture of inpatient consultation and outpatient experiences.

### **MED 821 – Pulmonary Medicine**

#### **Course length: 2 Weeks**

This elective is both an inpatient and outpatient experience. The senior medical student will work directly with different pulmonary attending(s) and fellows, attend 2-3 half-day clinics per week and attend the sleep clinic. The student will experience consultations on hospitalized patients and be involved in their evaluation, including any necessary pulmonary procedures. It is based at the Marshall University Medical Center, the VA Medical Center, Cabell Huntington Hospital, and St. Mary's Medical Center.

### **MED 823 - Clinical Rheumatology**

#### **Course length: 2 Weeks**

Rheumatologic illnesses account for a significant proportion of morbidity in the general population. Physicians should possess the knowledge and skills to diagnose and manage basic rheumatologic conditions commonly encountered in a medical practice. During this rotation, fourth year medical students acquire the knowledge and skills to identify and manage these illnesses. Emphasis will be placed on recognition of various rheumatologic illnesses, appropriate diagnostic evaluation and testing, and development of effective treatment plans.

### **MED 826 - Hospital Medicine**

#### **Course length: 2 Weeks**

This elective for fourth year medical students provides a structured clinical experience in the field of Academic Hospital Medicine. It is designed to be a well supervised and personalized educational experience that will serve to improve and build upon those cognitive and technical clinical skills already attained during the junior medicine clerkship. Through this elective, the student will learn the clinical skills and attitudes essential to the practice of Academic Hospital Medicine and the delivery of the highest quality patient care. The attending will be responsible for assigning the student patients to follow from admission to discharge. The student will be expected to participate actively in patient care, including but not limited to writing admission orders, daily progress notes, obtaining consults and discharge planning. In addition to the patient care aspect, the student will be expected to identify and present on a topic in hospital medicine such as patient safety, quality improvement, risk management or the economics of hospital medicine. The student will also attend

committee meetings and conferences as seen fit by the attending. Students are limited to only one 2wk rotation per academic year.

### **MED 827 - Sub-internship in Medicine**

#### **Course length: 4 Weeks**

This Selective Medicine Course is a 4 week course that is organized as a sub-internship to provide senior students with a structured clinical internal medicine experience. Students assume the responsibilities of being an integral team member of an inpatient medical service and as such improve and build upon cognitive and technical clinical skills attained during the third year clerkship. This course is offered at the Huntington VA Medical Center only. **(Additional paperwork will be required to work at the VA hospital, must have at least 45days notice before start of rotation)**

### **MED 828 - Advanced Clerkship in Med/Peds**

#### **Course length: 2- 4 Weeks**

This elective for fourth year medical students provides a structured clinical experience in the broad field of General Internal Medicine and Pediatrics. It is designed to be a well supervised educational experience that will serve to improve and build upon those cognitive and technical clinical skills already attained during the junior clerkships. Through this elective, the student will learn the clinical skills and attitudes essential to the practice of General Internal Medicine and Pediatrics. They will be expected to deliver of the highest quality patient care. The student will be encouraged to combine ambulatory and inpatient experiences in order to gain understanding of a typical Med/Peds practice, but will have an opportunity to concentrate solely in one aspect or the other as they prefer. They will likely rotate with several different faculty members in Internal Medicine and Pediatrics to gain the full experience.

## **NEUROLOGY**

### **NEU 803 – Neurosurgery**

#### **Course length: 2 – 4 Weeks**

This course is designed to give the senior medical student a basic understand of surgical diseases of the brain and spinal cord. The students will learn how to diagnosis common neurosurgical problems through the proper neurological history and examination, the interpretation of basic neurological diagnostic studies including, plain X-rays, CT scans, MRI-scans, and other commonly used diagnostic modalities. Students will attend rounds with staff physicians and all neurological and neurosurgical conferences. They will be encouraged to actively participate in all conferences including presentations and discussions. Students will be required to spend equal amounts of time in clinical, as well as, surgical settings. In the latter, they will be required to scrub in on all surgical procedures which they attend. Students will also be required to participate in the on call schedule and, in that context, to be active participants in neurosurgical consultations on the hospital floor as well as in the emergency ward.

## **OBSTETRICS & GYNECOLOGY**

### **OBG 813, Gynecologic Surgery**

#### **Course length: 2 – 4 Weeks**

Student will be responsible for the pre and post-operative management of patients undergoing surgical procedures for benign gynecologic diseases. Student will learn the evaluation, ambulatory

management, and surgical options to treat female pelvic floor dysfunction. Students will be required to demonstrate knowledge of the anatomy of the female pelvis. Students will be required to demonstrate basic laparoscopic skills

### **OBG 814 - Pediatric Gynecology**

#### **Course length: 2 – 4 Weeks**

Understand the principles of primary and preventative health care in the female pediatric and adolescent population. Learn the principles of antepartum care with specific attention to the adolescent age group. Describe mental health disorders as they relate to adolescents. Understand and provide counseling for adolescent females seeking contraceptive care. Describe the evaluation and management of pediatric/adolescent females with abnormal development of secondary sexual characteristics. Describe the evaluation and management of pediatric/adolescent females with pelvic pain. Describe the evaluation and management of pediatric/adolescent females with abnormal uterine bleeding. Understand how to educate adolescent females on sexuality.

### **OBG 827 - Sub-internship in Obstetrics**

#### **Course length: 4 Weeks**

Students will Learn the principles of antepartum care with specific attention to routine prenatal care and screening; Identify, evaluate, and manage at risk pregnancies; Develop the tools to evaluate and manage pregnant patients in the emergency room (triage) setting; Learn the principles of management of labor including vaginal delivery; Understand the indications for and techniques of labor induction; Understand the principles of postpartum care with specific emphasis on breast feeding and contraception. Students will be provide prenatal care to low and at risk pregnancies. Students will learn principles of evaluation and management of normal and abnormal labor; Students will learn principles of vaginal and abdominal obstetrical deliveries. Students will evaluate and manage ambulatory antepartum patients in both the office and hospital setting. Students will continue mastery of physiologic and anatomic changes of pregnancy

### **OBG 835 - Maternal and Fetal Medicine**

#### **Course length: 2 - 4 Weeks**

To develop the basic tools to evaluate and manage at risk pregnancies with specific regard to: Prenatal diagnosis and imaging; Understanding of embryology and fetal growth and development; Understanding of genetics as related to prenatal diagnosis; Maternal hypertensive disorders; Diabetes complicating pregnancy; Inpatient and ambulatory management of at risk pregnancies; Maternal and Fetal Physiology, including anatomic adaptations to pregnancy.

### **OBG 850 - Gynecologic Oncology**

#### **Course length: 2- 4 Weeks**

This elective is for students who have completed the basic core clerkship in OB/GYN and who are interested in enhancing their exposure to the subspecialty of Gynecologic Oncology. Students will participate in the complete management of patients with precancerous and invasive lesions of the pelvic organs on inpatient and outpatient bases. Students will be an integral part of the service and will participate in all activities of the service, including attendance at departmental conferences, hospital rounds and outpatient clinics.

## OPHTHALMOLOGY

### **OPH 804 - Ophthalmology**

#### **Course length: 2- 4 Weeks**

This elective will acquaint the senior medical student with the techniques of examination of the eye, common fundus pathology, cataracts, glaucoma, common external problems and ophthalmic emergencies. The student may also be exposed to ophthalmic surgery, pre-op and post-operative care.

## ORTHOPAEDICS

### **ORT 808 - Introduction to Musculoskeletal Care**

#### **Course length: 2-4 Weeks**

A 4th year elective in non-operative musculoskeletal care is offered, providing experience in multidisciplinary management of diseases of the musculoskeletal system. Rotations may include inpatient medical management of orthopedic patients, non-operative sports medicine, general clinical orthopedics, rheumatology, osteoporosis, and physical therapy.

### **ORT 827 - Sub-Internship In Orthopedic**

**Course Coordinator: Ashley Taliaferro (Roach33@marshall.edu)**

#### **Course length: 4 Weeks**

A 4th year sub-internship in orthopedic surgery is offered, providing experience in office and hospital management of diseases of the musculoskeletal system.

## PEDIATRICS

### **PED 805, Neonatology**

#### **Course length: 2 Weeks**

The student will observe and participate in the management of the high risk newborn in the Neonatal Intensive Care Unit with neonatologists, nurse practitioners, and pediatric residents. Emphasis will be placed on recognizing and assessing the high risk newborn, instituting acute therapeutic emergency measures, requisitioning appropriate laboratory studies and therapy under direct supervision. Daily assessment of nutritional needs and growth and development of the high risk infants will be among the student's responsibilities. Reading and participation in selected diagnoses and/or management reports related to the patients in the unit is expected.

### **PED 807 - Pediatric Critical Care**

#### **Course length: 2 Weeks.**

The student will observe and participate in the management of the critically ill pediatric patient. Emphasis will be placed on assessing and recognizing critically ill children and developing early intervention and daily treatment plans. The student will have primary responsibility for one or two patients on daily rounds. Reading and participation in selected diagnoses and/or management reports related to the patients in the unit is expected.

### **PED 827 - Sub-Internship Pediatrics**

#### **Course length: 4 Weeks**

This elective is available to only one or two students at a time. The student will function as a member of the house staff team observing and participating in the delivery of care of the pediatric hospital patient from the initial admission with the attending and resident. The complete evaluation of the patient, the planning of the clinical appraisal and care will be under the management of the student. All procedures, laboratory follow-through and therapeutic management of the patient will

be coordinated with the pediatric resident to whom the student is assigned. Location of this elective is the Inpatient Pediatric Floor at Cabell Huntington Hospital (5th floor)

## **PSYCHIATRY**

### **PSI 801 - Child and Adolescent Psychiatry**

#### **Course length: 2 Weeks**

The focus of this elective will be obtaining clinical experience in the diagnosis and treatment of psychiatric disorders in children and adolescents. Common disorders that the student will gain experience in treating include: attention deficit hyperactivity disorder, depression, oppositional defiant disorder, anxiety, and other developmental disorders. Experience will be provided working with hospitalized patients in an acute setting and in a residential treatment program for patients with a history and physical, sexual abuse or neglect and abuse-reactive disruptive behaviors. Experience with treatment of both new and return outpatient child and adolescent patients from the community and region.

### **PSI 804 - Psychiatric Consultation**

#### **Course length: 2 Weeks**

The student will be assigned to work directly with the faculty member assigned to consultations. In working with patients from the point of view of the psychiatrist answering a request for consultation, the student will have an opportunity to sharpen interviewing and diagnostic skills and develop a better understanding of the relationship of emotional and physical aspects of illness.