

Program of Clerkships and Courses

Numbers Following Courses and Clerkships

The first number following the title of a course indicates the total number of lecture, conference or discussion hours given.

The second number indicates the total laboratory or clinical practice hours.

The third number indicates the duration of the clerkship.

Clerkships in the Basic Medical Sciences

1. Biochemistry:

Clerkship in Biochemistry. 0.180-360; 1-2 months. The objectives of the clerkships are to introduce students to basic knowledge in selected areas of biochemistry, to the experimental approach in investigating a problem and to the basic techniques used in biochemical research. Clerkships are available in the field of enzymology, which includes techniques of protein purification, enzyme assay and elucidation of kinetic properties. Students can also work in the field of molecular biology as it is applied in the study of genetic disorders, apoptosis or induction of cancer. Students participate in the ongoing educational activities of the Department. At the end of the clerkship, the students are expected to have become familiar with some of the research problems of interest to the biochemist, the knowledge involved and the essential investigative techniques applicable in biochemistry. The students are evaluated by close observation of their performance and acquisition of knowledge and skills.

2. Human Morphology:

Clerkship in Human Morphology. 0.180-360; 1-2 months. The objective of the clerkship is to introduce the student to the disciplines, to research problems and investigative techniques within human morphology. The students can select applied immunology, general surgical anatomy, experimental neuroanatomy, neuromuscular disorders, techniques for study of cells and tissues, cell-cell and cell-microenvironment interactions, vascular biology and cancer metastasis. Evaluation depends on close observation of performance.

3. Microbiology and Immunology:

Clerkship in Medical Bacteriology 0.180; 1 month. Open to Medicine III, IV, and visiting medical students. The objective of the clerkship is to highlight the importance of the laboratory workup in the diagnosis and management of patients with systemic infections. The student will be assigned a patient with bacterial infection for obtaining specimens (or a cultured organism) and for carrying out all the necessary laboratory procedures such as microscopic examination of Gram-stained smears, cultures, isolation and precise species identifications of the pathogen(s), and antimicrobial susceptibility tests. Proper interpretation of the results, with due considerations to the virulence factors and pathogenic potentials of the recovered organism(s) will be emphasized. The relevance of the laboratory findings to the patient's clinical features, the underlying pathophysiologic abnormalities, and the appropriate line of management will be evaluated. Additionally, epidemiologic issues with particular reference to transmission and prevention will be addressed. A complete report, with pertinent literature citations, will be required

Clerkship in Immunology 0.180; 1 month. Open to Medicine III and IV students (local and visiting). The objective of the clerkship is to expose the student to clinical investigations in immunology in areas such as transplantation, allergy and autoimmune diseases. In cooperation with some of the clinical faculty, a commonly seen immunological disorder is assigned to the student. The clinical aspects of the disease are investigated on the floor under the supervision of the clinician and the laboratory investigations are performed in the Department. A term paper and a presentation in the form of a seminar are required by the student. Evaluation depends on close observation of performance.

4. Pharmacology:

Clerkship in Pharmacology. 0.180-360; 1-2 months. The objectives of the clerkship are to introduce the students to selected areas of pharmacology, some of the research problems in pharmacology and the approach to investigate a problem in pharmacology. Students can select a clerkship in the areas of cardiovascular, autonomic, renal or liver pharmacology. Students participate in ongoing teaching activities of the Department. Evaluation is based on close observation of performance

5. Physiology:

Clerkship in Physiology. 0.180-360; 1-2 months. The objectives of the clerkship are to introduce the students to selected areas in physiology, some physiological problems under investigation and the experimental approach in physiological research. Students can select such areas as experimental gastroenterology, cell and membrane physiology, experimental neuroscience, physiology of cardiac and vascular smooth muscle. Students can participate in on-going or new research projects in any of these disciplines. Students are expected to attend the educational activities of the Graduate Program. Evaluation is based on close observation of

performance.

Clerkships in the Clinical Disciplines:

1. Anesthesiology:

Clerkship in the Subspecialties of Anesthesia. 0.180-360; 1-2 months. Students rotate in one or more of the subspecialties of Anesthesia. They attend daily seminars which cover basic, as well as clinical subjects. Didactic assignments include a CPR course. In addition, students are exposed to clinical anesthesia with special emphasis on monitoring of patients, airway management, anesthesia for different subspecialties and post-operative recovery care. At the end of the clerkship the students must present a seminar on a selected topic. Evaluation is on the basis of close observation of performance.

Clerkship in Inhalation Therapy 0.180; 1 month. Rotation through the various fields covered by inhalation therapy. Assignments include: introduction to inhalation therapy, scope of services and procedures, theory and therapeutic goals of new techniques in inhalation therapy and orientation to equipment in use. In addition, the students participate in rounds in all areas where inhalation therapy takes place on all the services and monitor ventilator, lung mechanics, weaning, extubation, pulmonary functions, drug delivery and blood gas analysis. Evaluation depends on close observation of performance.

2. Dermatology:

Clerkship in Dermatology. 9.171; 1 month. The objectives of the clerkship are to make the student acquire the basic knowledge in dermatology, the diagnostic skills and the approach to the management of patients with skin disorders. Students participate in the daily clinics under supervision of the faculty. They observe and sometimes perform procedures such as cryotherapy, phototherapy, electrodesiccation, acne surgery, intralesional injections, patch testing and various minor surgical procedures. They attend the basic science seminar, journal club, grand rounds/case discussions, histopathology, clinical slides/differential diagnosis seminar and have assignments of audiovisual teaching material. Students prepare and present articles in the weekly journal club. Nine lectures and reading assignments are given on common skin diseases. Evaluation includes observation of performance and a written examination. At the end of the rotation, the student is expected to acquire knowledge on the following: clinicopathologic correlations, morphologic patterns, differential diagnostic procedures, principles of management of skin diseases, prevalence of skin diseases, recognition of the skin signs and symptoms reflecting systemic diseases.

3. Diagnostic Radiology:

Introduction to Diagnostic Radiology. 22.158; 1 month. The objectives of the clerkship are to familiarize the students with the role of Diagnostic Radiology and basic interpretation of the results of various imaging modalities. Students attend daily activities including daily readings in various sections with attendings and residents and daily conferences totaling 4 hours per week, including journal club, case discussions and formal courses. They are also expected to attend the inter-departmental conferences with the departments or divisions of Otolaryngology, Oncology, Neurosurgery, Pediatrics, Medicine, Orthopaedics, Family Medicine, Rheumatology and Surgery. Evaluation is based on observation of performance.

4. Emergency Medicine:

The Department of Emergency Medicine at AUBMC offers a clinical clerkship to senior medical students interested in the pursuit of Emergency Medicine Residency. Students will play an active role in the ongoing care of ED patients and will be responsible for the initial evaluation of assigned patients. They will obtain a thorough history, and perform a focused physical exam, formulate a differential diagnosis, suggest a diagnostic workup and treatment plan, and determine a disposition for each of their assigned patients under the direction of senior residents and faculty. Visiting students will be given approximately 14 shifts and they are expected to attend and contribute to the educational sessions taking place in the department.

5. Family Medicine:

Clerkship. 0.180; 1 month. The clerkship is offered to fourth year medical students who wish to develop primary care problem-solving skills. Students will also learn how to incorporate preventive health aspects into clinical practice. They can also participate in the ongoing educational research activities of the Department.

6. Internal Medicine:

Clerkship in Internal Medicine Subspecialties. 0.180-360; 1-2 months... Offered to fourth year medical students in one or more of the subspecialties of Internal Medicine including: Cardiology and EKG, Endocrinology and Metabolism, Nephrology, Neurology, Respiratory Diseases, Rheumatology, Intensive Care, and Gastroenterology.

7. Laboratory Medicine and Pathology:

Clerkship in Laboratory Medicine. 0.180-360; 1-2 months. The clerkship is offered year round to Med.IV students. It consists of daily practical training, supplemented by lectures and seminars to cover the disciplines of Clinical Chemistry, Clinical Microbiology and Immunology, Clinical Hematology, Blood Banking and Transfusion Medicine, and Cytogenetics. The clerkship is

available in these various disciplines of Laboratory Medicine and may be oriented according to the interest of the individual candidate. Evaluation is based on observation of performance.

Clerkship in Pathology. 0.180; 1 month. Open to clinical students. The purpose of this clerkship is the learning of the principles of anatomic pathology, mostly in surgical pathology and cytopathology. The students participate in the daily teaching activities of the Department, learn general dissection skills, and sit on the sign-out sessions. During the rotation, the student is encouraged to make a presentation on a topic of interest. Evaluation is based on observation of performance.

8. Obstetrics & Gynecology:

Clerkship in Obstetrics & Gynecology. 0.180-360; 1-2 months. Offered to fourth year medical students in one or more of the following disciplines: Delivery Suite, Gynecology and Obstetrics. In the Delivery Suite, students follow women in labor and attend normal vaginal deliveries and cesarean sections. In Gynecology and Obstetrics, students are directly involved in the evaluation and management of patients in outpatient and in-patient services. They attend the rounds and didactic lectures given by the attending staff and chief residents. At the end of the clerkship, the students should be able to understand and discuss the clinical practice of Gynecology and Obstetrics. Evaluation is dependent on close observation of performance.

9. Ophthalmology:

Clerkship in Ophthalmology. 0.180; 1 month. Offered to fourth year (Final) medical students, the objective of the clerkship is to introduce the student to diseases encountered in ophthalmology and the approach to their diagnosis and management. Open to interns and fourth year medical students. Students and interns will be assigned patients under supervision and they will be trained in history taking, ophthalmologic examination, management and introduction to diagnostic procedures. Evaluation depends on close observation of performance.

10. Otolaryngology & Head and Neck Surgery:

Clerkship in Otolaryngology. 0.180; 1 month. The objective of the clerkship is to expose the student to the diagnosis and management of commonly encountered diseases in otolaryngology. Students spend time in the out-patient clinic, wards and operating room, performing the following tasks: acquaint themselves with common otolaryngologic presentations and master history taking and physical examination of the head and neck. They are expected to participate in the rounds and assist in the operating room. They can join an ongoing clinical research project. In addition, students attend all the teaching activities in the Department, including the conferences, the clinico-pathology correlation, and the journal club. They have to present a talk on a selected topic. Evaluation depends on close observation of performance.

11. Pediatrics:

Clerkship in Pediatrics. 0.180-360; 1-2 months. Open to fourth year medical students. Students at other levels can be accepted for a research clerkship. The objectives of the clerkship are to introduce the student to a research problem in pediatrics or to additional experience in selected areas of clinical pediatrics. Students can join the research laboratory in the areas of developmental neuropharmacology, molecular biology and epilepsy or go through additional clinical experience in the areas of pediatric cardiology, neurology, hematology-oncology, nephrology, infectious diseases and neonatal intensive care. Evaluation is dependent on close observation of performance.

12. Surgery:

Clerkship in Surgery. 0.180-360; 1-2 months. The objective of the clerkship is to introduce the student to additional knowledge and expertise in selected disciplines of surgery. Open to IV year students. Students may elect to rotate through one or more of the following disciplines: General and Peripheral Vascular Surgery, Cardiothoracic Surgery, Neurosurgery, Orthopedic Surgery, Intensive Care, Pediatric Surgery, Plastic Surgery and Urology. They are assigned to in-patient services and act as interns. Rotations are open to visiting students who are considered as observers and cannot receive practical training in surgical techniques. Students participate in the teaching activities of the department including the lectures, specialty conferences, grand rounds and mortality and morbidity conference. Evaluation is based on close observation of performance.