

<b>Faculty In Charge Of Course:</b>	Dr. Andy Nguyen <a href="mailto:Nghia.D.Nguyen@uth.tmc.edu">Nghia.D.Nguyen@uth.tmc.edu</a>
<b>Participating Faculty:</b>	Drs. Amitava Dasgupta, Andy Nguyen, Margaret Uthman, Audrey Wanger, Semyon Risin, Anthony Padula, Orieji Illoh, Yu Bai
<b>Location:</b>	Memorial Hermann Hospital Clinical Laboratories
<b>Offered:</b>	Each period except for December
<b>Max. # Students/Period:</b>	3

### Course Objective

#### Material Covered:

Clinical chemistry, toxicology, microbiology, hematology, coagulation, blood bank, and immunology.

#### Skills Acquired:

Interpretation of clinical laboratory tests, with emphasis on chemistry profile, electrolytes, blood gases, protein and hemoglobin electrophoreses, urinalysis, toxicology, CBC, bone marrow aspirate and biopsy, techniques for the laboratory diagnosis of infectious disease, coagulation tests, and the clinical use of transfusion service.

### Activities Of Elective

**Number Of New Patients/Student/Week:** Varies

#### Responsibilities Of Student For Assigned Patients:

Does history/physical:	No
Follows patients, with appropriate notes as needed:	Yes
Who supervises:	Attending physician in each laboratory section
Does student see ambulatory patients:	Yes
Interpretation and signout of the following:	Peripheral blood smear, bone marrow aspirate and biopsy, hemapheresis, immunology studies, and immunohematology studies

### Scheduled Duties of Student:

Frequency of rounds on patients:	Daily. The students work 8-5 Mon-Fri. There is no weekend or after-hour duty (our residents and faculty are on call after-hours and weekend) Students work with the residents throughout the day.
Presents patients to preceptor or attending physician:	Yes
Weekly schedule of required teaching sessions:	Daily sign-out sessions with attending and residents.

### Describe Optional Rounds And Activities, If Any:

Grand rounds, journal clubs, clinical pathology conferences, and histology course laboratory.

### Other Required Activities:

Presenting a patient case	Yes, in one of the clinical pathology conferences
Reading/review of current literature:	10-20 hrs / week recommended
Writing or Presenting a paper:	No

### How Is Student Evaluated:

Through interaction with faculty and participation in clinical signouts.

### Who Evaluates Students:

Dr. Andy Nguyen and other faculty.

### Unique Features Of This Elective:

This elective is designed for students who want to gain experience in the proper interpretation of basic laboratory tests. Students will learn how the laboratory service operates. This will help their future practice of medicine in ordering and interpreting laboratory tests.