

<b>Faculty In Charge Of Course:</b>	Dr. Hlaing Tint – <a href="mailto:Hlaing.Tint@uth.tmc.edu">Hlaing.Tint@uth.tmc.edu</a>
<b>Participating Faculty:</b>	Hematology: Dr. Andy Nguyen, Dr. Amer Wahed, Dr. Lei Chen Clinical Chemistry: Dr. Amitava Dasgupta, Microbiology: Dr. Audrey Wanger, Dr. Violeta Chavez Transfusion Medicine: Dr. Yu Bai, Dr. Kimberly Klein, Dr. Hlaing Tint, Dr. Laura Lelenwa Immunology: Dr. Amer Wahed, Dr. Lei Chen
<b>Location:</b>	Memorial Hermann Hospital Clinical Laboratories
<b>Offered:</b>	Blocks 1, 3-8, 10, 11, 13
<b>Max. # Students/Period:</b>	3

### Course Objective

#### Material Covered:

Hematology, transfusion medicine (blood bank and apheresis), microbiology, clinical chemistry and immunology.

#### Skills Acquired:

Interpretation of clinical laboratory tests, with emphasis on chemistry profile, electrolytes, blood gases, protein and hemoglobin electrophoresis, 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:	Optional (in Transfusion Medicine)
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, lymph node biopsy, pre-transfusion testing (immunohematology), transfusion reaction interpretation, apheresis procedures, clinical immunology studies

### Scheduled Duties of Student:

Frequency of rounds on patients:	Daily. The students work 8-5 Monday to Friday. 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:

Quality of care projects, 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:	Optional
Participate in a quality project	Optional

### How Is Student Evaluated:

Through interaction with faculty and participation in clinical signouts

### Who Evaluates Students:

Dr. Hlaing Tint and other faculty

### Unique Features Of This Elective:

This elective offers the basis for understanding the functions of Clinical Pathology laboratory and services. The emphasis is on learning aspects critical for physicians across many specialties, such as interpretation of basic laboratory tests, critical values and proper course of action, essential aspects of diagnosing blood disorders, transfusion of blood products, and emergent apheresis procedures.