

# LABORATORY MEDICINE (LAB MED)

## LAB MED 130.01 CIEEx - Introduction to Hematology and Hematopathology (1.5-3 Units) Fall, Winter, Spring, Summer

*Instructor(s):* Yi Xie  
*Prerequisite(s):* None

Restrictions: Medical Students in Foundations 2

Activities: Clinical

This is a Bridges Curriculum Clinical Immersive Experience (CIEEx), which provide medical students in Foundations 2 opportunities to broaden and enhance their professional development in health care settings different from those of their core clerkships. Students will gain experience in clinical laboratory hematology and hematopathology, including a variety of different blood disorders.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

## LAB MED 140.01 Principles of Laboratory Medicine (3 Units) Fall, Winter, Spring, Summer

*Instructor(s):* Zane Amenhotep, Alan Wu, Jeffrey Whitman  
*Prerequisite(s):* Two years of medical school.

Restrictions: 3rd or 4th year Medical Student in good standing

Activities: Seminar, Clinical

Students will learn principles of laboratory medicine through clinical consultations, seminars, sign-out sessions and rounds with ZSFG Laboratory Medicine Faculty. This elective covers general principles of test selection, the testing process, quality practices, result interpretation and the importance of clinical correlation. Students will gain exposure to subspecialty areas, such as, clinical chemistry, toxicology, hematology, microbiology, immunology, serology and transfusion medicine.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

## LAB MED 140.05 Cellular Therapy (2-3 Units) Fall, Winter, Spring, Summer

*Instructor(s):* Elena Nedelcu, Gisela Marrero-Rivera  
*Prerequisite(s):* No

Restrictions: No

Activities: Lecture, Project

This novel course is designed to introduce 3rd and 4th year medical students (Career Launch) to the cellular therapy field, including hematopoietic progenitor cells, CAR-T cell, regulatory T cell and other emerging cellular therapies.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** Yes

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

### **LAB MED 140.06 Transfusion Medicine Elective (1.5-3 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Sara Bakhtary, Elena Nedelcu, Gisela Marrero-Rivera  
*Prerequisite(s):* NA

*Restrictions:* NA

*Activities:* Lecture, Clinical, Project

This novel Transfusion Medicine Elective is designed to prepare future physicians to understand the overall transfusion process, blood bank testing, blood products indications and contraindications, transfusion reactions and other transfusion-related topics with emphasis on achieving practical skills, including how to appropriately order blood products, and recognize and report transfusion reactions.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** Yes

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

### **LAB MED 140.07 Hematology (3-6 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Scott Kogan

*Prerequisite(s):* 4th year student in good Academic Standing

*Restrictions:* 4th year students

*Activities:* Clinical

Students participate in daily operations of the hematology laboratory, working with a resident on either the Bone Marrow or Heme-Coag rotations evaluating current case materials, attending daily signout rounds, and attending weekly teaching conferences.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

### **LAB MED 140.08A Microbiology elective (3 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Barbara Haller  
*Prerequisite(s):* None

*Restrictions:* 3rd or 4th year medical student in good standing

*Activities:* Lab science

This two week course is designed to provide the medical student with a fundamental understanding of the principles and practices of Clinical Microbiology. Through direct observation of benchwork, weekly didactic sessions, teaching rounds, and other learning materials, the student will receive instruction in the following areas of Microbiology: Bacteriology, Mycobacteriology, Mycology, Parasitology, Infectious Disease Serology, Virology and Molecular Diagnostics.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** No

### **LAB MED 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer**

*Instructor(s):* Zane Amenhotep

*Prerequisite(s):* Consent of instructor preceptor and approval of third- and fourth-year coordinator.

*Restrictions:* Medical students only

*Activities:* Independent Study, Project

Focused study and directed reading under supervision of a member of the faculty with the approval of the chairperson of the department.

**School:** Medicine

**Department:** Laboratory Medicine

**May the student choose the instructor for this course?** No

**Does enrollment in this course require instructor approval?** No

**Course Grading Convention:** P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)

**Graduate Division course:** No

**Is this a web-based online course?** No

**Is this an Interprofessional Education (IPE) course?** No

**May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course?** No

**Repeat course for credit?** Yes