LAB MED 130.01  CIEx - 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: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion  
This is a Bridges Curriculum Clinical Immersive Experience (CIEx), 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  

LAB MED 140.01  Principles of Laboratory Medicine (3 Units)  Fall, Winter, Spring, Summer  
Instructor(s): Zane D Amenhotep, Alan H Wu, Jeffrey D Whitman  
Prerequisite(s): Two years of medical school.  
Restrictions: 3rd or 4th year Medical Student in good standing  
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion  
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? Yes  
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? Yes  
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No  

LAB MED 140.05  Cellular Therapy (2-3 Units)  Fall, Winter, Spring, Summer  
Instructor(s): Elena G Nedelcu, Jonathan H Esensten  
Prerequisite(s): No  
Restrictions: No  
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion  
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
LAB MED 140.06 Transfusion Medicine Elective (1.5-3 Units) Fall, Winter, Spring, Summer
Instructor(s): Sara Bakhtary, Elena G Nedelcu, Morvarid Moayeri
Prerequisite(s): NA

Restrictions: NA

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

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

LAB MED 140.07 Hematology (3-6 Units) Fall, Winter, Spring, Summer
Instructor(s): Scott C. Kogan
Prerequisite(s): 4th year student in good Academic Standing

Restrictions: 4th year students

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

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? Yes
Is this an Interprofessional Education (IPE) course? Yes
May students in the Graduate Division (i.e. pursuing Master or PhD) enroll in this course? No

LAB MED 140.08A Microbiology 2 week elective (3 Units) Fall, Winter, Spring, Summer
Instructor(s): Barbara L. Haller
Prerequisite(s): None

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

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects

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

LAB MED 198 Supervised Study (1-6 Units) Fall, Winter, Spring, Summer
Instructor(s): Zane D Amenhotep
Prerequisite(s): Consent of instructor preceptor and approval of third- and fourth-year coordinator.

Restrictions: Medical students only

Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

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