MICROBIOLOGY (MICROBIOL)

MICROBIOL 204 Molecular and Cellular Immunology (3 Units) Fall
Instructor(s): Jason G. Cyster, Clifford A. Lowell
Prerequisite(s): Undergraduate level knowledge of molecular biology, cell biology and genetics. Some basic knowledge of the immune system is helpful but not required.

Restrictions: None other than the prerequisite
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

Topics to be covered: Mechanisms of innate immunity, inflammation, immunoglobulin gene rearrangements, cell biology of antigen presentation to T-cells and of lymphocyte trafficking, antigen and cytokine receptor structure and signaling, lymphocyte development and activation, mechanisms of cell-mediated killing of infected and neoplastic cells, whole organism immune response to infection, diseases of the immune system, including allergy, autoimmunity, and AIDS, and immune cell engineering.

School: Graduate Division
Department: Biomedical Sciences Program
May the student choose the instructor for this course? No
Does enrollment in this course require instructor approval? Yes
Course Grading Convention: Letter Grade, P/NP (Pass/Not Pass) or S/U (Satisfactory/Unsatisfactory)
Graduate Division course: Yes
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? Yes

MICROBIOL 211 Integrative Microbiology Seminar Series (1 Units) Fall, Winter, Spring
Instructor(s): Anita Sil
Prerequisite(s): None.

Restrictions: None.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

The Integrative Microbiology Seminar Series consists of weekly presentations of research on multiple aspects of microbe-host interactions, basic microbiology, and innate immunity. Speakers include scientists at other institutions as well as UCSF researchers.

School: Graduate Division
Department: Biomedical Sciences Program
May the student choose the instructor for this course? Yes
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: Yes
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? Yes

MICROBIOL 212 Immunology Journal Club (1 Units) Fall, Winter, Spring
Instructor(s): Adrian Erlebacher
Prerequisite(s): Micro 204

Restrictions: None.
Activities: Lecture, Seminar, Clinical, Fieldwork, Independent Study, Project, Web work, Workshop, Practical Experience, Special Projects, Lab skills, Lab science, Conference, Discussion

Course explores recent discoveries in Immunology. Students required to present once for 25 minutes. Presentations can be on recent publications of immunological interest, or student’s own research. The focus on current immunological knowledge and recent breakthroughs exposes students to material relevant to their research projects. Faculty are assigned for each presentation as necessary. All students in ImmunoX-affiliated labs are required to take the course.

School: Graduate Division
Department: Biomedical Sciences Program
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: Yes
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? Yes
Repeat course for credit? Yes