IM - IMMUNOLOGY AND MICROBIOLOGY

IM 7010 Fundamentals of Immunology Cr. 2
Basic concepts and current developments in immunology, including cellular and molecular aspects, regulation, and immunopathological mechanisms. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.

IM 7020 Fundamentals of Microbiology Cr. 2
Basic aspects of bacteriology, genetics and mycology. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students.

IM 7030 Molecular Biology of Viruses Cr. 2
Basic principles of virology including virus host interactions and the molecular biology of virus multiplication and genetics. Offered Winter.
Prerequisite: BMB 7010 with a minimum grade of C or MGG 7010 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students.

IM 7040 Fundamentals of Research Cr. 2
Lecture/discussion of practical aspects of professional scientific research. Offered Fall.
Restriction(s): Enrollment is limited to Graduate or Medical level students; enrollment limited to students in the School of Medicine.

IM 7410 Cancer Immunology and Immunotherapy Cr. 3
Cancer immunotherapy based on the molecular mechanisms of T-cell development, tolerance and activation. Topics include T-cell receptor and co-stimulatory signal-mediated regulation of T-cell activation, transcriptional regulation of T-cell differentiation, and T-cell effector function and regulatory mechanisms. Each week will consist of a one-hour lecture and a two-hour discussion. Offered Every Other Winter.
Prerequisite: IBS 7015 with a minimum grade of C
Restriction(s): Enrollment is limited to Graduate level students.
Equivalent: CB 7410

IM 7450 Current Trends in Immunology, Microbiology and Virology Cr. 1-5
Lectures and discussions on current literature and research problems. Offered intermittently.
Restriction(s): Enrollment is limited to Graduate level students.

IM 7520 Molecular Mechanisms of Bacterial Pathogenesis Cr. 2
The roles of bacterial virulence factors such as tissue colonization, invasion, and exotoxins in pathogenesis. The genetic regulation of bacterial virulence factors will be discussed. Offered Winter.
Restriction(s): Enrollment is limited to Graduate level students; enrollment is limited to students with a major in Immunology and Microbiology.

IM 7850 Research Conferences in Immunology and Microbiology Cr. 1-5
Seminars and discussions in selected areas. Offered Fall, Winter.
Restriction(s): Enrollment is limited to Graduate level students; enrollment is limited to students with a major in Immunology and Microbiology.

IM 7890 Seminar Cr. 1
Weekly BMI seminar series. Offered Fall, Winter.
Restriction(s): Enrollment is limited to Graduate level students; enrollment is limited to students with a major in Immunology and Microbiology.

IM 7996 Research Cr. 1-8
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students; enrollment is limited to students with a major in Immunology and Microbiology.
Repeatable for 25 Credits

IM 8999 Master's Thesis Research and Direction Cr. 1-8
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students; enrollment limited to students with a class of Candidate Masters.
Repeatable for 8 Credits

IM 9990 Pre-Doctoral Candidacy Research Cr. 1-8
Research in preparation for doctoral dissertation. Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Repeatable for 12 Credits

IM 9991 Doctoral Candidate Status I: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.

IM 9992 Doctoral Candidate Status II: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: IM 9991 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

IM 9993 Doctoral Candidate Status III: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: IM 9992 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

IM 9994 Doctoral Candidate Status IV: Dissertation Research and Direction Cr. 7.5
Offered Every Term.
Prerequisite: IM 9993 with a minimum grade of S
Restriction(s): Enrollment is limited to Graduate level students.

IM 9995 Candidate Maintenance Status: Doctoral Dissertation Research and Direction Cr. 0
Offered Every Term.
Restriction(s): Enrollment is limited to Graduate level students.
Course Material Fees: $370.26
Repeatable for 0 Credits