BSB

Biochemistry and Structural Biology

BSB 509: Experimental Biochemistry and Structural Biology
An introduction to modern biochemical research techniques. The student spends a half-semester in the laboratory of each of four different members of the faculty. In each laboratory, the student participates in some aspect of the research being pursued by the faculty member.
Fall and Spring, 1-6 credits, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BSB 510: Experimental Biochemistry and Structural Biology
An introduction to modern biochemical research techniques. The student spends a half-semester in the laboratory of each of four different members of the faculty. In each laboratory, the student participates in some aspect of the research being pursued by the faculty member.
Fall and Spring, 1-6 credits, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BSB 512: Structural Biology and Spectroscopy
Theoretical principles and experimental methods used in the study of proteins and nucleic acids, e.g., spectroscopy, magnetic resonance and diffraction.
Prerequisites: MCB 520, or undergraduate physical chemistry course, plus matriculation in graduate program or permission of instructor.
Fall, 2 credits, Letter graded (A, A-, B+, etc.)

BSB 515: Computational Methods in Biochemistry and Structural Biology
Computational methods used in sequence searching and analysis, bioinformatics, graphical analysis of proteins, and nucleic acids. Prerequisite: This class is restricted to first year BSB, HBM & HBH PhD students and 2nd year MCB PhD students. Exception requires approval from the course instructor.
Fall, 1 credit, S/U grading

BSB 532: Journal Club in Biochemistry and Structural Biology
Provides students with a forum for acquiring skills involved in the critical analysis and presentation of scientific data by active participation in seminars of major topics in structural biology and biochemistry, and critical discussion of selected topics with presentation of papers from the literature.
Prerequisites: Must be registered in the BSB Program.
Spring, 1 credit, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BSB 580: Advanced Structural Biology
Advanced topics in NMR spectroscopy and structural biology.
Prerequisites: Intro to Structural Biology (BSB 512) or Physical Biochemistry (MCB 512)
Spring, 2 credits, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BSB 581: Teaching Honors
Selected students whose performance in the basic required courses for the graduate program is in the top 10 percent conduct tutorials for first-year graduate students in the program and other students taking graduate courses for credit. The tutors are supervised and graded by faculty of the graduate program. Successful completion of this course makes students eligible to receive "Honors in Teaching" on their transcripts.
Fall and Spring, 1 credit, S/U grading
May be repeated for credit.

BSB 599: Research
Original investigation undertaken with the supervision of a faculty member.
Fall and Spring, 1-12 credits, S/U grading
May be repeated for credit.

BSB 601: Colloquium in Biochemistry and Structural Biology
A weekly series of talks and discussions by visiting scientists covering current research and thinking in various aspects of structural biology and biochemistry.
Prerequisites: Must be registered in the BSB Program.
Fall, 1 credit, S/U grading
May be repeated for credit.

BSB 602: Colloquium in Biochemistry and Structural Biology
A weekly series of talks and discussions by visiting scientists covering current research and thinking in various aspects of structural biology and biochemistry.
Prerequisites: Must be registered in the BSB Program.
Spring, 1 credit, S/U grading
May be repeated for credit.

BSB 603: Student Seminars in Biochemistry and Structural Biology
Seminars given by graduate students on the progress of their own thesis research. Required of all students every semester in which they are registered in the Graduate Program in Biochemistry and Structural Biology. Attendance is mandatory. Visitors are welcome. Prerequisite: Must be registered in the BSB Program.
Fall and Spring, 1 credit, S/U grading
May be repeated for credit.

BSB 604: Student Seminars in Biochemistry and Structural Biology
Seminars given by graduate students on the progress of their own thesis research. Required of all students every semester in which they are registered in the Graduate Program in Biochemistry and Structural Biology. Attendance is mandatory. Visitors are welcome. Prerequisite: Must be registered in the BSB Program.
Fall and Spring, 1 credit, S/U grading
May be repeated for credit.

BSB 699: Dissertation Research on Campus
Original investigations undertaken as part of the Ph.D. program under supervision of a research committee.
Prerequisite: Advancement to candidacy (G5).
Major portion of research must take place on SBU campus, or at the Brookhaven National Laboratory.
Fall, 1-9 credits, S/U grading
May be repeated for credit.

BSB 700: Dissertation Research off Campus - Domestic
Prerequisite: Must be advanced to candidacy (G5). Major portion of research will take place off-campus, but in the United States and/or U.S. provinces. Please note, Brookhaven National Labs and the Cold Spring Harbor Lab are considered on-campus. All international students must enroll in one of the graduate student insurance plans and should be advised by an International Advisor.
Fall, 1-9 credits, S/U grading
May be repeated for credit.

BSB 701: Dissertation Research off Campus - International
Prerequisite: Must be advanced to candidacy (G5). Major portion of research will take place outside of the United States and/or U.S. provinces. Domestic students have the option of the health plan and may also enroll in MEDEX. International students who are in their home country are not covered by mandatory health plan and must contact the Insurance Office for the insurance charge to
be removed. International students who are not in their home country are charged for the mandatory health insurance. If they are to be covered by another insurance plan they must file a waiver by second week of classes. The charge will only be removed if other plan is deemed comparable.

All international students must received clearance from an International Advisor.
Fall, 1-9 credits, S/U grading
May be repeated for credit.

**BSB 800: SUMMER RESEARCH**

*May be repeated for credit.*