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. Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor. Fall
1-6 credits, Letter graded (A, A-, B+, etc.)

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. Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor. Spring
1-6 credits, Letter graded (A, A-, B+, etc.)

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, MCB PHD, & HBH 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. Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor. Spring, 1 credit, Letter graded (A, A-, B+, etc.) May be repeated for credit.

BSB  580: Advanced Structural Biology/Structural Methods in Drug Discovery
This course is designed for students that want to gain theoretical and practical experience in macromolecular structure determination through NMR spectroscopy and/or X-ray crystallography. The course is organized into two modules: NMR spectroscopy and X-ray crystallography. Students may elect to take one or both modules. Emphasis will be placed on practical aspects of structural determination, including sample preparation, data collection and processing. In each of the modules, students will be guided through a complete structural determination project. A final project report per module will be required. Familiarity with Linux is desirable. Students are encouraged to contact instructors prior to enrolling. Crosslisted as BSB580 and HBHS585. Spring, 0-4 credits, S/U grading

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

BSB  599: Research
Original investigation undertaken with the supervision of a faculty member. Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor. 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. Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor. Fall, 0-1 credits, S/U grading May be repeated for credit.
student insurance plans and should be advised by an International Advisor.

Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor
Fall, Spring, 0-9 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.

Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor
Fall, Spring, 1-9 credits, S/U grading
May be repeated for credit.

BSB 800: SUMMER RESEARCH

Prerequisite: Must be matriculated in BSB Graduate Program or permission of instructor
S/U grading
May be repeated for credit.