BGE

Genetics

BGE 510: Graduate Genetics
This course investigates fundamental aspects of the transmission and expression of genetic information in prokaryotic and eukaryotic systems. The course is organized in a way that allows the students to appreciate the breadth of genetics research, while also gaining an in-depth understanding of selected important topics. Students explore the use of both classical and molecular genetic approaches to understand biological processes in genetics model systems including yeast, flies, worms, mouse, and man.

Spring, 3 credits, Letter graded (A, A-, B+, etc.)

BGE 530: Laboratory Rotation
The student rotates through laboratories of four different genetics program faculty members during the first year. The selection of the laboratories is made by the student, in conjunction with individual faculty, and with the approval of the program director. By taking part in ongoing projects, the student will learn experimental procedures and techniques and become acquainted with research opportunities in the participating programs.

Prerequisite: Permission of instructor
Fall and Spring, 1-8 credits, S/U grading
May be repeated 2 times FOR credit.

BGE 531: Graduate Student Seminar in Genetics
Students have the opportunity to present their research to other students and faculty on an annual basis. Students in the first or second year will present brief seminars as part of a one-day symposium with all of their classmates. Advanced students present research seminars as part of a weekly research seminar series that is attended by faculty and students. Although the first and second year students do not present in this weekly seminar series, they should attend these seminars as it provides an excellent mechanism for learning about current areas of research interest.

Fall and Spring, 0-1 credits, S/U grading
May be repeated for credit.

BGE 550: Genetics Outside Seminar
Outside seminars and special topics courses in areas relating to genetic studies.
1-4 credits, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BGE 599: Graduate Research
Original investigation undertaken with the supervision of a member of the program.
Fall and Spring, 1-9 credits, S/U grading
May be repeated for credit.

BGE 691: Readings in Genetics
Journal Club on thematic topics in different areas of current genetics research
Prerequisite: Permission of instructor
Fall and Spring, 1 credit, Letter graded (A, A-, B+, etc.)
May be repeated for credit.

BGE 699: Dissertation Research on Campus
Prerequisite: Advancement to candidacy (G5). Major portion of research must take place on SBU campus, at Cold Spring Harbor, or at the Brookhaven National Lab.
Fall, 1-9 credits, S/U grading
May be repeated for credit.

BGE 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.

BGE 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 be 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.

BGE 800: Summer Research
May be repeated for credit.