Guided Curriculum for Bioinformatics/Genomics focus:

Required:
Choose 8 credits from the following courses

Primary
• Molecular Genetics of Model Organisms MBGC 5055Q (2 cr) Block 3
• Introduction to Genomics, Proteomics and Bioinformatics MBGC 5002Q (2 cr) Block 4

Secondary
• Cellular Pathology PATH5100Q (2 cr) Block 8
• Protein Dynamics in Health and Disease MBGC 5030Q (2 cr) Block 5
• Nucleic Acids MBGC5070Q, MBGC 5071Q (2x2 cr) Blocks 7 & 8

Electives: (any course listed as "required" can also serve as an elective)

Primary (course numbers are incomplete, apologies)
• Advanced Bioinformatics BIOC 5003Q (2 cr)
• Human Genetics MICR 5045Q (2 cr)
• Viruses, Cells and Disease BIOC5125Q (2 cr)
• Molecular and Cellular Immunology PATH 5210Q (3 cr)
• Animal Models on Human Disease GSND 5215Q (2 cr)
• Principles of Pharmacology CBNP 5020Q (2 cr)
• Introduction to Structural Biology (1 cr)

Secondary
• Methods in Stem Cells, Transgenics, Imaging Techniques (2 cr)
• Developmental Biology (2 cr)
• Neuroscience (2x2 cr)
• Classic and 21st Century Pathogens TIII5620Q (2 cr)
• Cancer Biology MBGC 5015Q, 5020Q (2x2 cr) Blocks 3 & 4
• Signalling Mechanisms in Biological Systems MBGC 5220Q (2 cr) Block 5

The following courses are NJIT courses and are also suggested
• CS 610 - Data Structures and Algorithms (3 credits)
• CS 631 - Data Management System Design (3 credits)