Year 1			
Sep/Oct	Block 1	IBMS (2.5) GSND5200Q Critical Readings of the Literature BIOC 5290Q (1.5)	1 st Rotation Oct/Nov/Dec (2) MBGC593A
Nov/Dec	Block 2	IBMS (2.5) GSND5200Q Critical Readings of the Literature BIOC 5290Q (1.5) Elective	2 nd Rotation Jan/Feb/Mar (2) MBGC593B
Jan/Feb	Block 3	Required course (2) Elective or required course	3 rd Rotation
Mar/Apr	Block 4	Required course (2) Elective or required course	Mar/Apr/May (2) MBGC593C MBGC59100
May/Jun	Block 5	Ethics GSND 5001Q (1) Elective or required course	(Seminar course) through the year (0.5+0.5)
Jul/Aug	Block 6	Initiate Research with Mentor (2)	
Year 2			
Sep/Oct	Block 7	Research (2) Professional Skills—Presentations GSND 05960 (1) Elective or required course (2)	
Nov/Dec	Block 8	Experimental Design and Statistics GSND 5135Q (2) Research (2) Elective or Required Course (2)	
Jan/Feb	Block 9	Professional Skills—Grant Writing GSND 5006Q (2) Research (2)	
Mar/Apr	Block 10	Candidacy Exam	
May/Jun	Block 11	Thesis Research	
July/Aug	Block 12	1 IICSIS INCSCALUI	

Required Courses: Students should select 8 credits minimum from the following (can also be used ans electives)

- Cellular Pathology PATH5100Q-Lambert (2 cr)
- Molecular Genetics of Model Organisms MBGC5055Q-Kaback (2 cr)
- Cancer Biology: Extrinsic Factors in Cancer Progression MBGC 5015Q-Whitehead (2 cr)
- Cancer Biology: Intrinsic Cell Signaling and Cancer Development MBGC 5020Q-Whitehead (2 cr)
- Introduction to Bioinformatics, Genomics and Proteomics MBGC 5002Q-Hassimi/Bellofatto (2 cr)
- Advances in Nucleic Acids: DNA MBGC 5071Q-Modak (2 cr)
- Advances in Nucleic Acids: RNA MBGC 5070Q-Modak (2 cr)
- Viruses, Cells and Disease BIOC5125Q-Mathews (2 cr)

Electives:

- Methods in Microscopic Imaging DENT 5220Q (2 cr)
- Human Genetics MICR 5045Q (2 cr)
- Pharmacological Principles (1-2 cr)
- Methods in Stem cells, transgenics, imaging techniques (2 cr)
- Introduction to Structural Biology DENT 5145Q (1 cr)
- General Pathology PATH 5010Q (2 cr)
- Neuroscience NEUR 5200Q (3 cr)
- 21st Century Pathogens TIII 5620Q (2cr)
- Molecular and Cellular Immunology PATH 5210Q (3 cr)
- Foundations of Biochemistry and Molecular Biology BIOC5007Q (1 cr)
- Mol Phys Cell Communication CBNP 5036Q (4 cr)
- Regenerative Medicine CBNP 5037Q (2 cr)
- Molecular Mechanisms of Disease CBNP 5068Q (3 cr)
- Developmental Biology and Stem Cells CBMM 5020Q (2 cr)
- Microbes and Infectious Diseases MICR N5233 (3 cr)
- DNA Repair in Health and Disease PATH 5130Q (1 cr)
- Topics in Cancer Stem Cell Biology MSBS N512 (2 cr)
- Hematopoietic Stem Cell Biology MSBS N5134 (2 cr)
- Fundamentals of Human Physiology PHPY 5005Q (3 cr)
- Practical Approaches for Studying Protein Function CBMM 5002Q (2 cr)
- Molecular and Cellular Immunology PATH 5210Q (3 cr)
- PLUS all Molecular Sciences Required Courses can serve as electives for this or other tracks

Guided Curricula in:

- Cancer Biology
- Gene Expression and Signalling
- Genomics and Bioinformatics
- Structural Biology
- Translational Research

All students are expected to observe and support high standards of honesty, integrity and professional conduct in all aspects of education and research. Professional behaviors include arriving on-time for class, respecting the opinions of classmates and professors, appropriately referencing work produced by another person, following through on commitments and using positive verbal and non-verbal communication. While it is occasionally appropriate to challenge a grade assignment, students are expected to conduct themselves in a reasonable manner and recognize that the professor has the authority to lower a grade as well as to raise a grade following further evaluation. Please refer to the GSBS student handbook on academic integrity.