BSBT- GENERAL CURRICULUM

Required Courses

Course Number	Course Title	Credits/Semester
	Fall – Year 1	
BSBT 6072 – 6075	BSBT 6072: Foundations in Biochemistry BSBT 6073: Foundations in Molecular Biology BSBT 6074: Foundations in Cell Biology BSBT 6075: Foundations in Genetics	1.5 each/Fall
BSBT 6807	Introduction to Biotechnology *Enrollment in this course can be postponed to year two (Discuss with Program Director)*	3/Fall
Electives	*See, for example, Core Topics short courses that follow the Foundations Courses (Discuss with Program Administrator and Director)*	
	Spring – Year 1	
BSBT 6067*	Statistics for the Biomedical Sciences	2/Spring
BSBT 6071*	R Programming	1/Spring
BSBT 6805*	Bioinformatics	4/Spring
***Taking either BSBT 6067 and 6071 or BSBT 6805 will fulfill your requirement – extra credits taken will count towards elective credit.**		
BSBT 6806	Communication Skills	3/Spring
Electives	*Contact Program Administrator and Director*	
	Summer – Year 1	
BSBT 6065	RCR Case Studies	1/Summer
Electives	*Contact Program Administrator and Director*	
	Fall – Year 2	
ENGL 5175	Writing in the Sciences (*Denver Campus or Virtual*)	3/Fall and Spring
BSBT 6804	Bioinnovation Regulations	3/Fall
BSBT 6808 - ***Required for ReMC Cert.*** - *Elective option for all*	Legal, Regulatory, Quality & Compliance in Healthcare Innovation	3/Fall
Electives	*Contact Program Administrator and Director*	
	Spring – Year 2	
BSBT 6801	Biomedical Entrepreneurship	3/Spring
BSBT 6061	Project Management	2/Spring
BSBT 6939-Section 001	Internship (*Requires prior discussion with Program Director*)	3-6/All Semesters

Elective Courses

Enrollment in elective courses requires prior discussion with the Program Director. While likely, it is not guaranteed that the courses are always offered in the semester indicated.

Course Number	Course Title	Credits/Semester
BMSC Core Topics in Biomedical Science **Required for BSBT-SBB	**Core Topics A**	
	** BMSC 7830 - Protein Structure & Function	2/Fall
	BMSC 7831 - Microbiology Biomed Research	2/Fall
	BMSC 7832 - Inflammation	2/Fall
	BMSC 7833 - Evolution Genetics & Genomics	2/Fall
	BMSC 7834 - Introduction to Animal Models and Experiments in Developmental Biology	2/Fall
	Core Topics B	
	BMSC 7835 - Stem Cell Biology to Regenerative Medicine	2/Fall
	BMSC 7836 - Gene Regulation & RNA Biology in Disease	2/Fall
	BMSC 7837 - Microbiome: Health & Medicine	2/Fall

Course Number	Description	Credits/Semester
BIOE 5063	3D modeling for Bioengineers	3/Fall
BIOE 5074	Introduction to Laboratory Animal Research	3/Spring
BIOL 5494	Population and Evolutionary Genetics	3/Spring
BIOL 6764	Biological Data Analysis	3/Spring
CANB 7600	Molecular Mechanisms of Cancer	4/Spring
CANB 7620	Histophysiology	3/Spring
CLSC 7202	Clinical Outcomes and Applications	3/Fall
CSDV 7605	Stem Cells and Development	3/Spring
ENTP 6020	Business Model Development & Plan	3/Spring
ENTP 6834	Lean Marketing (online)	3/Spring
ENTP 6848	Leadership in New Ventures	3/Spring
ENVS 6230	Environmental Epidemiology	3/Spring
EPID 6630	Epidemiology	3/Spring
IDPT 7646	Tissue Biology and Disease Mechanisms	3/Fall
IMMU 6110	Intro to Bioinformatics (with an Immunology and Microbiology spin!)	3/Fall
IMMU 6210	Intensive Advanced Immunology	3/Spring
MKTG 4700	Personal Selling and Sales Management	3/Fall
MOLB 7900	Practical Computational Biology for Biologists: Python	2/Spring
MOLB 7910	Practical Computational Biology for Biologists: R	2/Spring
NRSC 7501	Intro to Neuroscience	1/Fall
NRSC 7610	Fundamentals of Neurobiology	3/Spring
NRSC 7614	Biological Basis of Psychiatric and Neurological Disorders	3/Spring
NRSC 7615	Developmental Neurobiology	3/Spring
PHSC 7345	Nanotechnology and Drug Delivery	2/Spring
PHSC 7651	Pharmaceutical Biotechnology	3/Spring
STBB 7609	Biophysics and Spectroscopy	3/Spring
STBB 7631	Molecular Structure A	1.5/Fall

38 credits are required for graduation in all BSBT- Program Plans, and graduate students must maintain an overall GPA of at least 3.0 (“B”). No grade below “B-” is accepted for graduation.