Curriculum

□ Undergraduate Course

Classification	Subject No.	Subject Name	Lecture: Lab.: Credit (Assignment)	Semester	Remark
Mandatory Major	BS200	Biochemistry Experiment	0:9:3(2)	Fall	
	BS202	Cell Biology	3:0:3(4)	Fall	
Course	BS205	Biochemistry I	3:0:3(3)	Spring	
	BS208	Biochemistry II	3:0:3(3)	Fall	
	BS209	Molecular Biology	3:0:3(4)	Spring	
	BS319	Cell Biology Experiment	0:9:3	Spring	
FL (BS223	Introductory Biotechnology	3:0:3	Spring	
Elective Major	BS232	Microbiology	3:0:3(1)	Fall	
Course	BS307	Physical Chemistry for Life Science	3:0:3	Spring	
	BS312	Evolution	3:0:3	Fall	
	BS315	Genetics	3:0:3(3)	Spring	
	BS318	Developmental Biology	3:0:3	Fall	
	BS322	Biological Engineering	3:0:3(3)	Fall	
	BS325	Microbial and Cell Biotechnology	3:0:3(2)	Spring	
	BS326	Biotechnology Experiment	0:9:3(2)	Fall	
	BS332	Microbial Chemistry	3:0:3(2)	Fall	
	BS342	Enzymology	3:0:3(1)	Fall	
	BS346	Animal Behavior	3:0:3	Fall	
	BS355	Pharmacology	3:0:3(1)	Spring	
	BS357	Introduction to Neuroscience	3:0:3	Fall	
	BS358	Plant Biology	3:0:3	Spring	
	BS365	Environmental Microbiology	3:0:3(1)	Fall	
	BS371	Animal Cell Culture and Engineering	3:0:3	Spring	
	BS413	Experiments for Genetics and Developmental Biology	0:9:3	Spring	**
	BS431	Virology	3:0:3(3)	Spring	**
	BS433	Molecular Biology of Gene Regulation	3:0:3(3)	Spring	**
	BS435	Bio-Imaging	3:0:3	Spring	**
	BS442	Stem Cell Biology	3:0:3	Fall	**
	BS452	Immunology	3:0:3	Spring	**
	BS453	Physiology	3:0:3	Spring	**
	BS454	Introduction to Structural Biology	3:0:3(1)	Fall	**
	BS456	Behavioral Physiology	2:3:3	Fall	**
	BS458	Synthetic Biology	3:0:3	Fall	**
	BS462	Environmental Biotechnology	3:0:3(1)	Fall	**

* Note: ** stands for courses open to both undergraduate and graduate students

Classification	Subject No.	Subject Name	Lecture: Lab.: Credit (Assignment)	Semester	Remark
	BS463	Genetic Engineering	3:0:3(3)	Spring	**
	BS465	NanoBioTechnology	3:0:3	Fall	**
	BS467	Biomaterials	3:0:3	Spring	**
	BS469	Scientific communication	3:0:3	Spring	**
	BS481	Topics in Life Science I	1:0:1		**
	BS482	Topics in Life Science II	2:0:2		**
	BS483	Topics in Life Science III	3:0:3		**
	BS484	Topics in Life Science IV	3:0:3		**
	BS485	Topics in Life Science V	3:0:3		**
	BS486	Topics in Life Science VI	3:0:3		**
Research	BS490	B.S. Thesis Research	0:6:3		Required
	BS495	Specified Research	0:6:1		Elective
	BS496	Seminar	1:0:1		Elective

 $\ensuremath{\overset{**}{\overset{*}}}$ Note: ** stands for courses open to both undergraduate and graduate students

□ Graduate Course

Classify Subject Subject Name Credit Semester Remark No. - <th></th> <th></th> <th></th> <th></th> <th>Lecture:Lab.:</th> <th></th> <th></th>					Lecture:Lab.:		
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Image: biologImage:	Classif	ication		Subject Name	Credit	Semester	Remark
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BS532Applied and Environmental Nicrobiology3.0.5(1)SpringBS536Environmental Toxicology3:0:3(2)Fall**BS538Microbial Genomics3:0:3(4)Fall**BS541Advanced Cell Biology3:0:3Spring**BS543Advanced Neurobiology3:0:3(1)Fall**BS547Neural Development3:0:3Spring**BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Spring**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS531	Advanced Microbiology	3:0:3(2)	Spring	**
BS538Microbial Genomics3:0:3(4)Fall**BS541Advanced Cell Biology3:0:3Spring**BS543Advanced Neurobiology3:0:3(1)Fall**BS543Advanced Neurobiology3:0:3(1)Fall**BS547Neural Development3:0:3Spring**BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS532	Applied and Environmental Microbiology	3:0:3(1)	Spring	**
BS541Advanced Cell Biology3:0:3Spring**BS543Advanced Neurobiology3:0:3(1)Fall**BS547Neural Development3:0:3Spring**BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS536	Environmental Toxicology	3:0:3(2)	Fall	**
BS541Advanced Cell Biology3.0.3SpringBS543Advanced Neurobiology3:0:3(1)Fall**BS547Neural Development3:0:3Spring**BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS538	Microbial Genomics	3:0:3(4)	Fall	**
BS543Advanced Neurobiology3:0:3(1)Fall**BS547Neural Development3:0:3Spring**BS533Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS541	Advanced Cell Biology	3:0:3	Spring	**
BS547Neural Development3:0:3Spring**BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS543		3:0:3(1)	Fall	**
BS553Omics Biology3:0:3Spring**BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS547		3:0:3	Spring	**
BS552Advanced Fermentation Technology3:0:3(2)Fall**BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**			BS553	-			**
BS554Advanced Biological Engineering3:0:3(3)Fall**BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**							**
BS562Protein Design3:0:3Fall**BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**							**
BS564Bioanalytical Technology3:0:3Fall**BS571Advanced Animal Cell Engineering3:0:3Spring**							**
BS571 Advanced Animal Cell Engineering 3:0:3 Spring **							**
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							**
BS584 Novel Drug Delivery Systems 3:0:3(3) Fall **							**

* Note: ** stands for courses open to both undergraduate and graduate students

Classification	Subject No.	Subject Name	Lecture:Lab. :Credit (Assignment)	Semester	Remark
Elective Course	BS585	Advanced Developmental Biology	3:0:3(6)	Spring	**
Course	BS586	Plant Developmental Biology	3:0:3	Fall	**
	BS588	Cell Signaling	3:0:3(6)	Fall	**
	BS589	Cancer Genetics	3:0:3	SpringFall	**
	BS613	Cellular and Molecular Immunology	3:0:3	Fall	
	BS620	Physical Biochemistry	3:0:3	Spring	
	BS622	Enzyme Chemistry	3:0:3	Fall	
	BS624	Protein Chemistry and Engineering	3:0:3	Fall	
	BS626	Nucleic Acid Biochemistry	3:0:3(3)	Fall	
	BS628	Biological Membranes	3:0:3	Fall	
	BS631	Microbial Genetics	3:0:3(2)	Spring	
	BS633	Microbial Physiology	3:0:3(2)	Spring	
	BS662	Bioseparation Technology	3:0:3	Fall	
	BS664	Numerical Methods for Biochemical Engineering	3:0:3	Fall	
	BS711	Bioinformatics	3:0:3(3)	Fall	
	BS713	Human Genomics	3:0:3(2)	Spring	
	BS720	Selected Topics in Biochemistry	3:0:3	SpringFall	
	BS722	Biochemistry of Carcinogenesis	3:0:3(3)	Fall	
	BS730	Selected Topics in Microbiology	3:0:3	Spring Fall	
	BS740	Selected Topics in Cell Biology	3:0:3	SpringFall	
	BS742	Molecular Cell Biology	3:0:3(2)	Fall	
	BS750	Selected Topics in Biotechnology	3:0:3	SpringFall	
	BS760	Selected Topics in Environmental Biotechnology	3:0:3	Spring	
	BS781	Special Topics in Food Science & Technology	3:0:3	Spring	
	BS791	Scientific Writing in English	3:0:3(4)	Spring	
	BS801	Advanced Topics in Life Science I	1:0:1		
	BS802	Advanced Topics in Life Science II	2:0:2		
	BS803	Advanced Topics in Life Science III	3:0:3		
Research	BS960	M.S. Thesis Research		Spring-Fall	
researen	BS965	Independent Study in M.S.		SpringFall	
	BS966	M.S. Seminar	1:0:1	SpringFall	
	BS980	Ph.D. Thesis Research		Spring·Fall	
	BS986	Ph.D. Seminar	1:0:1	Spring·Fall	
V Noto, ** o	BS990	Graduate Student Seminar	1:0:1	Spring-Fall	

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