Curriculum List (Undergraduate program)

Classificat ion	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
Mandator y Major	BS200	21.200	Biochemistry Experiment	0:9:3(2)	Fall	
	BS202	21.202	Cell Biology	3:0:3(4)	Fall	
	BS205	21.205	Biochemistry I	3:0:3(3)	Spring	
	BS208	21.208	BiochemistryⅡ	3:0:3(3)	Fall	
	BS209	21.209	Molecular Biology	3:0:3(4)	Spring	
	BS319	21.319	Cell Biology Experiment	0:9:3	Spring	
	BS223	21.223	Introductory Biotechnology	3:0:3	Spring	
	BS232	21.232	Microbiology	3:0:3(1)	Fall	
	BS307	21.307	Physical Chemistry for Life Science	3:0:3	Spring	
	BS310	21.310	Genome Molecular Biology	3:0:3	Fall	
	BS311	21.311	Animal Diversity	3:0:3	Spring	
	BS312	21.312	Evolution	3:0:3	Fall	
	BS315	21.315	Genetics	3:0:3(3)	Spring	
	BS316	21.316	Introduction to Epigenetics	3:0:3	Spring, Fall	
	BS318	21.318	Developmental Biology	3:0:3	Fall	
	BS322	21.322	Biological Engineering	3:0:3(3)	Fall	
	BS325	21.325	Microbial and Cell Biotechnology	3:0:3(2)	Spring	
Major	BS326	21.326	Biotechnology Experiment	0:9:3(2)	Fall	
Elective	BS332	21.332	Microbial Chemistry	3:0:3(2)	Fall	
	BS342	21.342	Enzymology	3:0:3(1)	Fall	
	BS346	21.346	Animal Behavior	3:0:3	Fall	
	BS355	21.355	Pharmacology	3:0:3(1)	Spring	
	BS357	21.357	Introduction to Neuroscience	3:0:3	Fall	
	BS358	21.358	Plant Biology	3:0:3	Spring	
	BS365	21.365	Environmental Microbiology	3:0:3(1)	Fall	
	BS367	21.367	Biomolecular Chemistry	3:0:3	Spring	
	BS371	21.371	Animal Cell Culture and Engineering	3:0:3	Spring	
	BS413	21.413	Experiments for Genetics and Developmental Biology	0:9:3	Spring	
	BS415	21.415	Genomics	3:0:3	Spring, Fall	0
	BS417	21.417	Eco-Evo-Devo	3:0:3	Spring, Fall	0

^{©:} Course mutually recognized by undergraduate and graduate programs

Classifica tion	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BS431	21.431	Virology	3:0:3(3)	Spring	0
	BS433	21.433	Molecular Biology of Gene Regulation	3:0:3(3)	Spring	0
	BS435	21.435	Bio-Imaging	3:0:3	Spring	0
	BS442	21.442	Stem Cell Biology	3:0:3	Fall	0
	BS450	21.450	Neuroscience II	3:0:3	Fall	0
	BS452	21.452	Immunology	3:0:3	Spring	0
	BS453	21.453	Physiology	3:0:3	Spring	0
	BS454	21.454	Introduction to Structural Biology	3:0:3(1)	Fall	0
	BS456	21.456	Behavioral Physiology 2:3:3		Spring, Fall	0
	BS458	21.458	Synthetic Biology	3:0:3	Fall	0
Major	BS462	21.462	Environmental Biotechnology	3:0:3(1)	Fall	0
Elective	BS463	21.463	Genetic Engineering	3:0:3(3)	Spring	
	BS465	21.465	NanoBioTechnology	3:0:3	Fall	0
	BS467	21.467	Biomaterials	3:0:3	Spring	
	BS469	21.469	Scientific communication	3:0:3	Spring	0
	BS481	21.481	Topics in Life Science I	1:0:1		
	BS482	21.482	Topics in Life Science II	2:0:2		0
	BS483	21.483	Topics in Life Science III 3:0:3			
	BS484	21.484	Topics in Life Science IV 3:0:3			
	BS485	21.485	Topics in Life Science V 3:0:3			
	BS486	21.486	Topics in Life Science VI	3:0:3		0
	BS490	21.490	B.S. Thesis Research 0:6:3			Required
Research	BS495	21.495	Specified Research 0:6:1			Elective
	BS496	21.496	Seminar 1:0:1			Elective

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Curriculum List (Graduate program)

Classifica tion	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BS501	21.501	Bioassay Standards	3:0:3	Spring	
	BS507	21.507	General Clinical Medicine	3:0:3	Fall	
	BS512	21.512	Biostatistics	3:0:3(4)	Fall	
	BS515	21.515	Behavioral Genetics	3:0:3	Spring	
	BS516	21.516	Advanced Genetics	3:0:3	Spring	
	BS518	21.518	Chemical Genomics&Medicinal Systems Biology	3:0:3(1)	Fall	
	BS521	21.521	Cancer Biology	3:0:3	Spring	0
	BS524	21.524	Advanced Molecular Biology	3:0:3(3)	Fall	
	BS525	21.525	Gene Expression	3:0:3(3)	Spring	
	BS526	21.526	Molecular Virology	3:0:3(3)	Fall	
	BS528	21.528	Advanced Epigenetics	3:0:3	Spring, Fall	0
	BS531	21.531	Advanced Microbiology	3:0:3(2)	Spring	
	BS532	21.532	Applied and Environmental Microbiology	3:0:3(1)	Spring	0
	BS536	21.536	Environmental Toxicology	3:0:3(2)	Fall	0
	BS538	21.538	Microbial Genomics	3:0:3(4)	Fall	0
Elective	BS541	21.541	Advanced Cell Biology	3:0:3	Spring	0
	BS542	21.542	Immunotherapy	3:0:3	Fall	0
	BS543	21.543	Advanced Neurobiology	3:0:3(1)	Fall	0
	BS547	21.547	Neural Development	3:0:3	Spring	0
	BS549	21.549	Biology of Metabolism	3:0:3	Fall	0
	BS552	21.552	Advanced Fermentation Technology	3:0:3(2)	Fall	0
	BS553	21.553	Omics Biology	3:0:3	Spring	0
	BS554	21.554	Advanced Biological Engineering	3:0:3(3)	Fall	0
	BS562	21.562	Protein Design	3:0:3	Fall	0
	BS564	21.564	Bioanalytical Technology	3:0:3	Fall	0
	BS571	21.571	Advanced Animal Cell Engineering	3:0:3	Spring	0
	BS582	21.582	Food Engineering I	3:0:3(2)	Fall	0
	BS584	21.584	Novel Drug Delivery Systems	3:0:3(3)	Fall	0
	BS585	21.585	Advanced Developmental Biology	3:0:3(6)	Spring	0
	BS586	21.586	Plant Developmental Biology	3:0:3	Fall	0
	BS588	21.588	Cell Signaling	3:0:3(6)	Fall	0

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Classifica tion	Course No.	Computer Code	Course Name	Lecture; Lab.; Credit (Assignment)	Semester	Note
	BS589	21.589	Cancer Genetics	3:0:3	Spring. Fall	
	BS611	21.611	Advanced Molecular Cell Biology I	3:0:3(3)	Spring	
	BS612	21.612	Advanced Molecular Cell Biology∏	3:0:3(3)	Fall	
	BS613	21.613	Cellular and Molecular Immunology	3:0:3	Fall	
	BS620	21.620	Mechanism of biological molecules	3:0:3	Fall	
	BS622	21.622	Enzyme Chemistry	3:0:3	Fall	
	BS624	21.624	Protein Chemistry and Engineering	3:0:3	Fall	
	BS626	21.626	Nucleic Acid Biochemistry	3:0:3(3)	Fall	
	BS628	21.628	Biological Membranes	3:0:3	Fall	
	BS631	21.631	Microbial Genetics	3:0:3(2)	Spring	
	BS632	21.632	Advanced cancer biology	3:0:3	Spring	
	BS633	21.633	Microbial Physiology	3:0:3(2)	Spring	
	BS643	21.643	Neurobiology of memory	3:0:3	Spring	
	BS662	21.662	Bioseparation Technology	3:0:3	Fall	
Elective	BS664	21.664	Numerical Methods for Biochemical 3:0:3 Fall		Fall	
	BS711	21.711	Bioinformatics	3:0:3(3)	Fall	
	BS713	21.713	Human Genomics	3:0:3(2)	Spring	
	BS720	21.720	Selected Topics in Biochemistry	3:0:3	Spring. Fall	
	BS722	21.722	Biochemistry of Carcinogenesis	3:0:3(3)	Fall	
	BS723	21.723	Cell Signaling Networks	3:0:3	Spring	
	BS730	21.730	Selected Topics in Microbiology	3:0:3	Spring. Fall	
	BS740	21.740	Selected Topics in Cell Biology	3:0:3	Spring. Fall	
	BS742	21.742	Molecular Cell Biology	3:0:3(2)	Fall	
	BS750	21.750	Selected Topics in Biotechnology	3:0:3	Spring. Fall	
	BS760	21.760	Selected Topics in Environmental Biotechnology	3:0:3	Spring	
	BS781	21.781	Special Topics in Food Science & Technology	3:0:3	Spring	
	BS791	21.791	Scientific Writing in English	3:0:3(4)	Spring	
	BS801	21.801	Advanced Topics in Life Science I	1:0:1		
	BS802	21.802	Advanced Topics in Life Science II	2:0:2		
	BS803	21.803	Advanced Topics in Life Science III	3:0:3		
	BS960	21.960	M.S. Thesis Research		Spring. Fall	
	BS965	21.965	Independent Study in M.S.		Spring. Fall	
Research	BS966	21.966	M.S. Seminar	1:0:1	Spring. Fall	
incocurcii	BS980	21.980	Ph.D. Thesis Research		Spring. Fall	
	BS986	21.986	Ph.D. Seminar	1:0:1	Spring. Fall	
	BS990	21.990	Graduate Student Seminar	1:0:1	Spring. Fall	

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Alternative Course List

Alternative courses in the department								
Catamani	Course	s currently offered	Courses not currently offered					
Category	Course no.	Course title	Course no	Course title	Remark			
Undergraduate	BS319	Cell Biology Experiment	BS319	Cell Biology and Genetics Experiment	course title changed			

Alternative courses offered by other departments								
Catanana		es offered by the department	Courses offered by other departments					
Category	Course no.	Course no.	Course no.	Course no.	Remark			
Undergraduate	BS202	Cell Biology	BiS202	Cell Biology	Bidirectional substitution			
Undergraduate	BS208	BiochemistryⅡ	BiS208	BiochemistryⅡ	Bidirectional substitution			