

Curriculum

Classification	Subject NO.	Subject Name	Lecture:Lab:Credit (Homework)	Semester	Remark
General Course	CC500	Science Writing in English	3:0:3(4)	Spring, Fall	
	CC510	Introduction to Computer Application	2:3:3(10)	Spring, Fall	
	CC511	Probability and Statistics	2:3:3(6)	Spring, Fall	
	CC512	Introduction to Materials and Engineering	3:0:3(3)	Spring, Fall	
	CC513	Economy and Cost Analysis	3:0:3(6)	Fall	
	CC522	Introduction to Instruments	2:3:3(8)	Fall	
	CC531	Patent Analysis and Invention Disclosure	3:0:3(6)	Spring, Fall	
Mandatory Major Course	BM501	Current Topics of Biomedical Research	3:0:3 (3)	Spring	**
	BM502	General Clinical Medicine	3:0:3 (3)	Fall	**
Elective Major Course	BM521	Human Anatomy and Physiology	3:0:3 (3)	Fall	**
	BM522	Human Pathology	3:0:3 (3)	Spring	**
	BM523	Neurobiology	3:0:3 (3)	Fall	**
	BM524	Experimental Animals	3:0:3 (6)	Spring	**
	BM525	Genetics of Cancer	3:0:3 (3)	Fall	**
	BM526	Applied Clinical Science	3:0:3 (3)	Spring	
	BM701	Special Topics in Biomedical Sciences	3:0:3 (3)	Spring	
	BM702	Special Topics in Biomedical Engineering	3:0:3 (3)	Fall	
Elective Course	BS524	Advanced Molecular Biology	3:0:3 (3)	Fall	*BS543
	BS525	Gene Expression	3:0:3 (3)	Spring	
	BS526	Molecular Virology	3:0:3 (3)	Fall	
	BS536	Environmental Toxicology	3:0:3 (2)	Fall	
	BS626	Nucleic Acid Biochemistry	3:0:3 (3)	Fall	
	BS628	Biological Membranes	3:0:3 (0)	Fall	
	BS672	Animal Cell Biotechnology	3:0:3 (2)	Fall	
	BS711	Bioinformatics	3:0:3 (3)	Spring	
	BS722	Biochemistry of Carcinogenesis	3:0:3 (3)	Fall	
	BS750	Selected Topics in Biotechnology	3:0:3 (0)	-	
	BiS525	Advanced Neuroscience	3:0:3(1)	Spring	
	BiS531	Bioinformatics	3:0:3(6)	S or F	
	BiS551	Medical Image Processing	3:0:3(3)	Spring	
	CBE662	Bioseparation Processes Engineering	3:0:3 (3)	Fall	
	CBE664	Process for Recombinant Microorganisms	3:0:3 (3)	Spring	
	CH521	Advanced Organic Chemistry	3:0:3 (3)	Spring	
	CH581	Advanced Biochemistry	3:0:3 (3)	Spring	
	CH610	NMR Spectroscopy	3:0:3 (3)	Spring, Fall	
	CH782	Special Topic in Biochemistry I	3:0:3 (3)	Spring, Fall	
	CH783	Special Topic in Biochemistry II	3:0:3 (3)	Spring, Fall	
	EE535	Digital Image Processing	3:0:3 (6)	Spring	
	EE561	Introduction to VLSI Devices	3:0:3 (6)	Spring	
	EE682	Intelligent Control Theory	3:0:3 (6)	Fall	
	EE737	Imaging Systems	3:0:3 (6)	Spring	
	MAE510	Advanced Fluid Mechanics	3:0:3 (6)	Spring	
	MAE521	Viscous Fluid Flow	3:0:3 (6)	Fall	
	MAE530	Advanced Mechanics of Solids	3:0:3 (6)	Spring	

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Elective Course	MAE561	Linear System Control	3:0:3 (6)	Spring	
	MAE563	Microprocessor Application	2:3:3 (6)	Fall	
	MAE564	Artificial Neural Network: Theory and Applications	3:0:3 (6)	Spring	
	MAE604	Metrology	2:3:3 (6)	Spring	
	MAE629	Biomedical Fluid Dynamics	3:0:3 (6)	Fall	
	MAE642	Medical Biomechanics	3:0:3 (6)	Fall	
	MAE655	Robotics Engineering	3:1:3 (6)	Fall	
	MS514	Mechanical Behavior of Solids	3:0:3 (3)	Fall	
	MS572	Composite Materials	3:0:3 (3)	Fall	
	MS622	Glass Science and Technology	3:0:3 (2)	Spring	
	NQE561	Radiation Measurement Systems	3:0:3 (4)	Spring	
	NQE562	Radiation Imaging Instrumentation	3:0:3 (4)	Spring	
	PH507	Advanced Electrodynamics I	3:0:3 (4.5)	Fall	
Research	BM960	M.S. Thesis			
	BM966	M.S. Seminar	1:0:1		
	BM980	Ph.D. Thesis			
	BM986	Ph.D. Seminar	1:0:1		

※ * Courses opened by the BSEIP (BM courses).

** Courses accepted as BSEIP Elective courses.

500 level BM courses are accepted both in undergraduate and master's program.