

Curriculum

□ Graduate Course

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Assignment)	Semester	Remart
Mandatory General Courses (select one)	CC010	Special Lecture on Leadership	1:0:0	Spring/Fall	
	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 Science and Engineering	3:0:3(3)	Spring/Fall	
	CC513	Engineering Economy and Cost Analysis	3:0:3(6)	Fall	
	CC522	Introduction to Instruments	2:3:3(8)	Fall	
	CC530	Entrepreneurship and Business Strategies	3:03:(6)	Fall	
	CC531	Patent Analysis and Invention Disclosure	3:0:3(6)	Spring/Fall	
Elective Major Courses (Select 3)	MSE501	Biomedical Biochemistry	3:0:3(3)	Spring	* CH581, **
	MSE502	Biomedical Molecular Biology	3:0:3(3)	Spring	* BS524, **
	MSE503	Biomedical Cell Biology I	3:0:3(3)	Spring	* BS611, **
	MSE504	Biomedical Cell Biology II	3:0:3(3)	Fall	* BS612, **
	MSE505	Biomedical Bioinformatics	3:0:3(3)	Spring/Fall	* BiS500, **
Elective Major Courses	MSE551	Experimental Techniques of Biomedical Molecular Biology	3:0:3(3)	Fall	
	BM501	Current Topics of iomedical Research	3:0:3(3)	Spring	
	BM502	General Clinical Medicine	3:0:3(3)	Fall	
	BM521	Human Anatomy and Physiology	3:0:3(3)	Fall	
	BM522	Human Pathology	3:0:3(3)	Spring	
	BM523	Neuroiology	3:0:3(3)	Fall	
	BM524	Experimental Animals	3:0:3(6)	Fall	
	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	
	BS524	Advanced Molecular Biology	3:0:3(3)	Spring	
	BS525	Gene Expression	3:0:3(3)	Spring	
	BS526	Molecular Virology	3:0:3(3)	Fall	
	BS543	Advenced Neurobiology	3:0:3(1)	Spring	* BiS525
	BS611	Advanced Molecular Cell Biology I	3:0:3(3)	Spring	
	BS612	Advanced Molecular Cell Biology II	3:0:3(3)	Fall	
	BS626	Nucleic Acid Biochemistry	3:0:3(3)	Fall	
	BS672	Animal Cell Biotechnology	3:0:3(2)	Fall	
	BS685	Advanced Developmental Biology	3:0:3(6)	Spring	
	BS722	Biochemistry of Carcinogenesis	3:0:3(3)	Fall	
	BS750	Selected Topics in Biotechnology	3:0:3(0)		
	BS782	Cell Signal Transduction	3:0:3(6)	Fall	
BiS500	Bioinformation and Bioelectronics	3:0:3(3)	Fall		
BiS523	Information and Electronics for Scientists	3:0:3(6)	Spring		
BiS531	Bioinformatics	3:0:3(6)	Spring/Fall		

Classification	Subject No.	Subject Name	Lecture:Lab.:Credit (Assignment)	Semester	Remark
Elective Major Courses	BiS551	Medical Image Processing	3:0:3(3)	SpringI	* EE538
	BiS554	Neural Networks	3:0:3(6)	Fall	
	BiS571	BioElectroMechanics	3:0:3(6)	SpringI	
	BiS623	Bioelectronic Devices	3:0:3(3)	Spring/Fa;;	
	BiS632	Bio-Statistics	3:0:3(6)	Spring/Fall	
	BiS653	Biomedical Imaging System	3:0:3(6)	Spring	* EE737
	BiS672	Nano Electro Mechanical Systems	3:0:3(4)	Fall	
	BiS771	Nanobiotechnology	3:0:3(4)	Spring	
	PH507	Advanced Electrodynamics I	3:0:3(4.5)	Fall	
	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 Topics in Biochemistry I	3:0:3(3)	Spring/Fall	
	CH783	Special Topics in Biochemistry II	3:0:3(3)	Spring/Fall	
	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	
	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	
	MAE642	Biomechanics	3:0:3(6)	Fall	
	MAE655	Robotics Engineering	3:1:3(6)	Fall	
	CBE662	Bioseparation Processes Engineering	3:0:3(3)	Fall	
	CBE664	Process for Recombinant Microorganisms	3:0:3(3)	Spring	
	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	
	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		
Research	MSE960	M.S. Thesis Research		Spring/Fall	
	MSE966	M.S. Seminar	1:0:1	Spring/Fall	
	MSE980	Ph.D. Thesis Research		Spring/Fall	
	MSE986	Ph.D. Seminar	1:0:1	Spring/Fall	

※ * represents a substitutive subject

※ ** designates courses for both undergraduate and graduate programs.