Curriculum

Classification	Subject NO.	Subject Name	Lecture:Lab:Credit (Homework)	Semester	Remark
Mandatory General Course	CC010	Special Lecture on Leadership	1:0:0	Spring/Fall	
	CC020	Ethics and Safety Ⅰ	1:0:0	Spring/Fall	
	CC500	Scientific Writing	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	
	CC530	Entrepreneurship and Business Strategies	3:03:(6)	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 Course	BM503	Biomedical Cell Biology Ⅰ	3:0:3(3)	Spring	*BS611
	BM504	Biomedical Cell Biology Ⅱ	3:0:3(3)	Fall	*BS612
	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	
	BM527	Pathology of Laboratory Animals	3:0:3(3)	Spring	
	BM528	Biomedical Molecular Biology	3:0:3(3)	Spring	
	BM529	Biology of Disease	3:0:3(3)	Fall	
	BM530	Molecular & Cellular Biology of Cancer	3:0:3(3)	Fall	
	BM531	Bioanalytical Technology	3:0:3(3)	Fall	
	BM545	Stem Cell Biology	3:0:3(3)	Fall	
	BM553	Advanced Cellular and Molecular Immunology	3:0:3(3)	Fall	
	BM610	Techniques of Laboratory Animal	2:3:3(3)	Fall	*MSE610
	BM701	Special Topics in Biomedical Sciences	3:0:3(3)	Spring	
	BM702	Special Topics in Biomedical Engineering	3:0:3(3)	Fall	
	BM711	Cellular and Molecular Immunology	3:0:3(3)	Fall	
Elective Course	BiS525	Advanced Neuroscience	3:0:3(1)	Spring	*BS543
	BiS531	Bioinformatics	3:0:3(6)	Spring, Fall	
	BiS551	Medical Image Processing	3:0:3(3)	Spring	
	BS516	Advanced Genetics	3:0:3(0)	Spring	
	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	
	BS536	Environmental Toxicology	3:0:3(2)	Fall	
	BS624	Protein Chemistry and Engineering	3:0:3(0)	Fall	
	BS626	Nucleic Acid Biochemistry	3:0:3(3)	Fall	
	BS628	Biological Membranes	3:0:3(0)	Fall	
	BS671	Advanced Animal Cell Engineering	3:0:3(2)	Spring	
Elective	BS711	Bioinformatics	3:0:3(3)	Spring	

Classification	Subject NO.	Subject Name	Lecture:Lab:Credit (Homework)	Semester	Remark
Course	BS722	Biochemistry of Carcinogenesis	3:0:3(3)	Fall	
	BS742	Molecular Cell Biology	3:0:3(0)	Fall	
	CBE662	Bioseparation Processes Engineering	3:0:3(3)	Fall	
	CBE664	Process for Recombinant Microorganisms	3:0:3(3)	Spring	
	CH581	Advanced Biochemistry	3:0:3(3)	Spring	
	CH610	Structure Biochemistry	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	
	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	
	MAE561	Linear System Control	3:0:3(6)	Spring	
	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	
	MSE601	Medical Science Experimental Techniques	3:0:3(3)	Spring	
	MSE602	Contemporary Seminar of Modern Medical 1	3:0:3(3)	Spring	
	MSE603	Contemporary Seminar of Modern Medical 2	3:0:3(3)	Fall	
	MSE611	Clinical Aspects of Immunology	3:0:3(3)	Fall	
	MSE612	Pathophysiology of Chronic Infectious Diseases	3:0:3(3)	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		

※ Notes: 1) 400 and 500 level courses open to both undergraduate and graduate students

2) * stands for substitutable courses