

2021 International Curriculum planning

	Courses	Academic Year	Semester	Credit	Hours	
Required Courses	General Chemistry	1st	1	3		
	General Chemistry Laboratory	1st	1	1	3	
	Biology (I)	1st	1	3		
	Biology (II)	1st	2	3		
	General Biology Laboratory	1st	2	1	3	
	Organic Chemistry	1st	2	3		
	Organic Chemistry Laboratory	1st	2	1	3	
	Introduction to Biomedical Techniques	1st	1	2		
	Introduction to Plant Biotechnology	1st	2	2		
	Biochemistry (I)	2nd	1	3		
	Genetics	2nd	1	3		
	Microbiology	2nd	1	3		
	Microbiology Laboratory	2nd	1	1	3	
	Animal Physiology	2nd	1	2		
	Plant Physiology	2nd	2	2		
	Biochemistry (II)	2nd	2	3		
	Biochemistry Laboratory	2nd	2	1	3	
Biostatistics	2nd	2	3			

Selective Courses in Biomedical Biotechnology	Molecular Biology	3rd	1	3		
	Molecular Biology Laboratory	3rd	1	1	3	
	Cell Biology	3rd	2	3		
	Cell Biology Laboratory	3rd	2	1	2	
	Immunology	3rd	2	3		
	Off-campus Internship or Research Project	4th	2	1		
	Nanotechnology and Biomedical Material	2nd	1	2		
	Endocrinology	2nd	2	2		
	Tumor Biology	3rd	1	2		
	Bioinformatics	2nd	2	2		

	Proteomics	3rd	1	2		
	Genetic Engineering	3rd	2	2		
	Virology	3rd	2	3		
	Applied Microbiology	3rd	2	3		
	Stem Cell Medicine	4th	1	2		
	Signal transduction & Drug Discovery	4th	1	2		
	Regenerative Medicine	4th	2	2		
	Biochip Technique	4th	2	3		

Selective Courses in Agricultural Biotechnology	Introduction of Biotech Management	2nd	1	2		
	Edible and Medicinal Fungi	2nd	1	2		
	Marketing Management of Bio-industry	2nd	2	3	3	
	Introduction of Plant Protection	2nd	2	2		
	Agriculture Reagent	2nd	2	2		
	Farm Management and Practice	3rd	1	3		
	Plant Tissue Culture and Application	3rd	1	3		
	Analytical Chemistry and Instrumental Analysis	3rd	1	2		
	Quality Management of Bio-industry	3rd	2	3		
	Biological Fermentation Engineering	3rd	2	2		
	Cause of Plant Disease Microorganism Examination Technology	4th	1	3		

Other Selective Courses	Biotechnology Patent Search and Management	2nd	1	2		
	Innovation and Development of Biotech Products	3rd	2	2		
	Seminar in Biotechnology	3rd	2	1		
	Bio-industry Analysis	4th	1	2		
	Off-campus Internship or Research Project	4th	2	1		