

Required courses and credits for Interdisciplinary Program of Life Science class 2020

Category		Courses		Credits		Remarks	
				Fall semester	Spring semester		
University Required Courses (30 credits)		College Chinese		2			
		English Field		8		2 credits can be waived if you pass the school English ability criteria	
		General Education Courses	Core Courses		8-12		At least one course for each of the four dimensions
			Optional		8-12		
			Total		20		
		Physical Education		0		1 st ~3 rd year required	
		Service Learning		0		At least 60 hours before graduation	
		Conduct		0		Each semester with passing grades	
LSIP Required (27credits)		General Physics I, II		3	3		
		General Chemistry I, II		3	3		
		Calculus I, II		3	3		
		Life Science I, II		3	3		
		Seminar		1			
		General Biology Lab Course		2			
First Major Course (Select one)	Course From Life Science (29 credits)	Biochemistry I, II		3	3		
		Molecular and Cellular Biology I			3		
		Molecular and Cellular Biology II		3			
		Molecular and Cellular Biology III			3		
		Genetics			3		
		Organic Chemistry I		3			
		Bioinformatics		3		choose two among the five courses	
		Plant Biology		3			
		Animal Physiology		3			
		Microbiology		3			
		Biostatistics		3			
		Cell Biology Laboratory		2		experimental courses; choose one among the five courses	
		Molecular Biology Laboratory		2			
		Biochemistry Laboratory		2			
		Microbiology Laboratory		2			
		Lab for Bio-Photonics		2			
	Course From	Organic Chemistry I, II		3	3		
		Biochemistry I, II		3	3		

	Medical Science (30 credits)	Molecular Biology		3	
		Cell Biology	3		
		Human Anatomy & Physiology	3		
		3D Organon Virtual Reality (VR) Human Anatomy	1		
		Medical Microbiology and Immunology		3	take at least eight credits
		Biomedical Engineering	3		
		Medical Genetics	2		
		Pharmacology	2		
		Translational Medicine		2	
		Medical Statistics and Epidemiology		3	
Second Major Courses	Select one of the elective courses provided by every College in the campus. (except Life Science College)	27~33		except Biomedical Engineering- molecular medicine	
Elective Courses		8~15			
Total required credits for graduation		128			