

Course	Credits	Hours	1 st year				2 nd year				3 rd year				4 th year				Note	
			Fall		Spring		Fall		Spring		Fall		Spring		Fall		Spring			
			class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab	class	lab		
Professional Required Courses	Calculus	3	4	3	1															
	General Chemistry	3	3	3																
	General Chemistry Lab.	1	3	1	2															
	Physics principles for biologist	3	3	3																
	General Biology-1	3	3	3																
	General Biology Lab.-1	1	3	1	2															
	General Biology-2	3	3			3														
	General Biology Lab.-2	1	3			1	2													
	Organic Chemistry	3	3			3														
	Organic Chemistry Lab.	1	3			1	2													
	Environmental Ecology	3	3			3														
	Freshman Seminar	1	1	1																
	Analytical Chemistry	3	3					3												
	Analytical Chemistry Lab.	1	3					1	2											
	Biochemistry-1	4	4					4												
	Biochemistry Lab.-1	1	3					1	2											Service Learning
	Biochemistry-2	4	4							4										
	Biochemistry Lab.-2	1	3							1	2									Service Learning
	Microbiology	3	3							3										
	Microbiology Lab.	1	3							1	2									
	Cell Biology	3	3									3								
	Cell Biology Lab.	1	3									1	2							
	Bioinformatics-1	2	3									2	1							Computer courses
	Molecular Biology	3	3									3								
	Biostatistics	3	3											3						
	Developmental Biology	3	3											3						
Research Training 1	1	1											1							
Research Training 2	1	1													1					

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	Seminar 1	1	1												1	0					
	Seminar 2	1	1														1	0			
	Subtotal	63																			
	Subtotal Required Course Credits	91																			
Professional Elective Courses	Biotechnology Program	Plant Physiology	3	3					3											1. Professional Electives can be selected from three programs of study. 2. Students must first complete two of these programs of study, each consisting of at least 3 courses and 20 credit hours.	
		Animal Physiology	3	3					3												
		Tissue culture and Application	3	3						3											
		Animal Cell Culture and Application	2	2						2											
		Immunology	3	3							3										
		Vaccine & Vaccination	3	3								3									
		Cosmetic Chemistry	3	3									3								
		Laboratory Animal Medicine	3	3															3		
		Gene Transfer	2	2																	2
		Virology	3	3												3					
	Genomics Program	Genomics	3	3						3											
		Genetics	3	3					3												
		Special Topics to Genome Project & Annotation	3	3						3											
		Bioinorganic Chemistry	3	3							3										
Applied Bioinstrumentation and Analysis		3	3							3											
Bioinformatics-2		2	3										2	1					Computer courses		

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Special Topics in Molecular Biology	3	3											3						
Proteomics	3	3											3						
Protein Separation and Two Dimensional Electrophoresis	2	2													2				
Protein preparation and mass spectrum analysis	2	2															2		
Biofood Program	Nutrition	3	3					3											
	Introduction to Biochemistry Engineering	3	3					3											
	Food Chemistry	3	3						3										
	Food Analysis (Lab)	3	3						3										
	Food Microbiology (Lab)	3	3							3									
	Enzymology	3	3										3						
	Food Safety	3	3										3						
	Fermentation	3	3										3						
	Food Process Engineering (Lab)	3	3												3				
Dietary Supplements and Functional Foods	3	3												3					

以上專業選修學程至少需修 20 個學分

Notes:

1. In accordance with the General Provisions for Study, undergraduate students need to satisfactorily complete Service Learning, meet the university-wide basic competencies of English, Information Technology, Chinese, and Sports, and pass the core competencies of their department to be eligible for graduation.
2. Students who entered in and since the 2008-09 academic year need to complete at least 12 General Education course credits. General Education courses are divided into three areas: Humanities, Social Science, and Natural Science. Each area is divided into two subcategories: core and extended. Students need to take 1 two-credit course in both of the subcategories within each area to be eligible for graduation. Only 12 course credits will be counted toward graduation. Additional course credits earned in General Education courses are not counted toward graduation.
3. Course credits obtained from the Teacher Education Center cannot be counted toward students' final grades.
4. Elective course credits include BT professional courses and courses from other schools, but the BT Department can only admit maximum 17 course credits.
5. The newly added elective courses in this academic year can be applied retroactively to students who entered the university prior to the 2014 academic year.
6. When retaking the professional courses, students can choose those which are the same course name or the same course content as substitutions under the approval of the department chair. These courses can be regarded as their graduation credits, and can be applied retroactively to students who entered the university prior to the 2015 academic year.
7. Students can choose the course from BT master program, which can be counted as their graduation credits under the approval of the department chair, and can be applied retroactively to students who entered the university prior to the 2015 academic year.
8. Professional Electives can be selected from three programs of study, students must first complete two of these of study, each consisting of at least 3 courses. These courses can be applied retroactively to students who entered the university prior to the 2015 academic year.
9. Professional electives must be selected at least 20 credit hours.
10. When retaking the Calculus course, students can choose Calculus I course as substitutions under the approval of the department chair. These courses can be regarded as their graduation credits, and can be applied retroactively to students who entered the university prior to the 2015 academic year.
11. Deletion the rules which undergraduate students need to take Programming Design I and II, and can be applied retroactively to students who entered the university prior to the 2015 academic year.