

University of the Philippines Cebu
College of Science

Bachelor of Science in Biology

2018 Curriculum, Approved by the UP President on 2017 October 18

Study Plan

Effective First Semester AY 2018-2019



First Year, First Semester				
GE	ARTS 1	Critical Perspectives in the Arts	3	none
GE	ETHICS 1	Ethics and Moral Reasoning in Everyday Life	3	none
Foundation	BIO 11	Unifying Concepts of Biology	3	none
Foundation	CHEM 23	Inorganic Analytical Chemistry	3	none
Foundation	CHEM 23.1	Inorganic Analytical Chemistry Laboratory	2	CHEM 23 (co)
Foundation	MATH 40	Calculus for the Life Sciences	5	none
PE	PE 2		(2)	none
NSTP	NSTP 1	National Service Training Program 1	(3)	none

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First Year, Second Semester				
GE	SCIENCE 11	Living Systems: Concepts and Dynamics	3	none
Foundation	BIO 12	Invertebrate Zoology	3	BIO 11
Foundation	BIO 13	Plant Morphoanatomy and Diversity	3	BIO 11
Foundation	CHEM 31	Elementary Organic Chemistry	3	CHEM 23, CHEM 23.1
Foundation	CHEM 31.1	Elementary Organic Chemistry Laboratory	2	CHEM 31 (co)
Foundation	STAT 178	Introduction to Biostatistics	4	none
PE	PE 2		(2)	none
NSTP	NSTP 2	National Service Training Program 2	(3)	none

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Second Year, First Semester				
GE	KAS 1	Kasaysayan ng Pilipinas	3	none
GE	MATH 10	Mathematics, Culture and Society	3	none
Foundation	BIO 14	General Ecology	3	BIO 12, BIO 13, STAT 178
Foundation	CHEM 41	Physical Chemistry for the Biological Sciences	3	CHEM 23, CHEM 23.1, MATH 40
Foundation	PHYSICS 81	Intermediate Physics 1	3	MATH 40 or MATH 53
Foundation	PHYSICS 81.1	Intermediate Physics 1 Laboratory	1	PHYSICS 81 (co)
Mandated	PI 100	The Life and Works of Jose Rizal	3	none
PE	PE 2		(2)	none

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Second Year, Second Semester				
GE	STS 1	Science, Technology and Society	3	none
GE	GE Elective	GE Elective	3	none
GE	GE Elective	GE Elective	3	none
Foundation	CHEM 50	Elementary Biochemistry	3	CHEM 41
Foundation	CHEM 50.1	Elementary Biochemistry Laboratory	2	CHEM 50 (co)
Foundation	PHYSICS 82	Intermediate Physics 2	3	PHYSICS 81, PHYSICS 81.1
Foundation	PHYSICS 82.1	Intermediate Physics 2 Laboratory	1	PHYSICS 82 (co)
PE	PE 2		(2)	none

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Third Year, First Semester				
GE	COMM 10	Critical Perspectives in Communication	3	none
GE	GE Elective	GE Elective	3	none
Core	BIO 110	General Microbiology	3	BIO 11, CHEM 50
Core	BIO 111	General Physiology	3	BIO 12, BIO 13, CHEM 50
Core	BIO 112	Elementary Genetics	3	BIO 12, BIO 13, CHEM 50, STAT 178
Core	BIO 189	Scientific Writing in Biology	3	none

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Third Year, Second Semester				
GE	SAS 1	Self and Society	3	none
GE	GE Elective	GE Elective	3	none
Core	BIO 113	Molecular Biology and Its Applications	3	BIO 112
Core	BIO 114	Cell Biology	3	BIO 112
Core	BIO 115	Field Biology	3	BIO 14
Elective	Major Elective	Major Elective	3	

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Fourth Year, First Semester				
Core	BIO 116	Introduction to Developmental Biology of Animals	3	BIO 113, BIO 114
Core	BIO 117	Application of Informatics in Biology	3	BIO 113, BIO 114, STAT 178
Core	BIO 118	Introduction to Biological Systems Analysis	3	BIO 14, MATH 40, STAT 178
Core	BIO 196	Seminar in Biology	1	BIO 189
Core	BIO 200a	Undergraduate Thesis I	2	has earned 47 units in foundation and 21 units in core courses
Elective	Major Elective	Major Elective	3	
Elective	Major Elective	Major Elective	3	
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Fourth Year, Second Semester				
Core	BIO 119	Comparative Anatomy of Vertebrates	4	BIO 116
Core	BIO 200b	Undergraduate Thesis II	2	BIO 200a
Elective	Major Elective	Major Elective	3 - 4	
Elective	Major Elective	Major Elective	3	
Elective	Free Elective	Free Elective	3	
			15 - 16	

Total Required Units 143-144

MAJOR ELECTIVES				
	BIO 120	Biodiversity and Conservation	3	BIO 14
	BIO 121	Plant Physiology	3	BIO 111, CHEM 50
	BIO 122	Animal Physiology	3	BIO 111, CHEM 50
	BIO 123	Animal Histology	4	BIO 12, BIO 119 (co)
	BIO 124	Animal Behavior	3	BIO 14, BIO 112
	BIO 125	Parasitology	3	BIO 12, BIO 110
	BIO 126	Advanced Microbiology	3	BIO 110
	BIO 131	Marine Dynamics	3	BIO 14, BIO 115
	BIO 132	Introduction to Fisheries Biology and Aquaculture	3	BIO 14, BIO 115
	BIO 133	Vegetation Dynamics	3	BIO 14, BIO 115
	BIO 134	Ethnobiology and Pharmacognosy	3	BIO 12, BIO 13, CHEM 31, CHEM 31.1
	BIO 135	Environmental Change Biology	3	BIO 14
	BIO 141	Introduction to Bioentrepreneurship	3	none
	BIO 191	Special Topics in Biology (Topic to be indicated)	3	has earned 47 units in foundation and 21 units in core courses
	CHEM 103	Introduction to Environmental Chemistry and Toxicology	3	CHEM 50, CHEM 50.1

Retention Policy : Student must pass BIO 11, BIO 12, BIO 13, and CHEM 23 within the first two years in order to stay in the program.