

**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 2025-2026



**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 *STAT 108	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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\*Revised Course Number (8 May 2025)

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## Study Plan

Effective First Semester AY 2018-2019



<b>Fourth Year, First Semester</b>					
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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<b>Fourth Year, Second Semester</b>					
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		
				<b>15 - 16</b>	

**Total Required Units 143-144**

<b>MAJOR ELECTIVES</b>					
	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.*