

COLLEGE OF ARTS AND SCIENCES
University of the Philippines Manila
Padre Faura, Manila

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BACHELOR OF SCIENCE IN BIOLOGY
(Effectivity: Academic Year 2018-2019)

Name: _____
City Address: _____
Permanent Address: _____

Student No: _____
Contact No: _____
Parent Contact No: _____

<u>FIRST YEAR</u>	UNITS/CREDIT	PREREQUISITE
FIRST SEMESTER		
_____ GE 1 Comm 10	3	
_____ Math 105 (Analysis for the Health Sciences)	4	
_____ Chemistry 33 (Organic Chemistry)	5	
_____ Biology 110 (Integrated Principles of Biology)	5 (3 lec; 2 lab)	
_____ PE 1	(2)	
_____ NSTP	<u>(3)</u>	
	17	
SECOND SEMESTER		
_____ Chemistry 41 (Biochemistry)	5	Chemistry 33
_____ Physics 61 (Physics in the Life Sciences I)	3	
_____ Physics 61.1 (Physics in the Life Sciences I Lab)	1	
_____ Biology 126 (Animal Morphology & Physio)	5 (3 lec; 2 lab)	Biology 110
_____ Biology 180 (Statistical Methods in Biology)	3 (2 lec; 1 lab)	Biology 110
_____ PE 2 (Basic Swimming)	(2)	
_____ NSTP	<u>(3)</u>	
	17	
MIDYEAR		
_____ GE 2 (Wika)	3	
_____ Bio 116 Invertebrate Zoology	<u>3</u>	Biology 110
	6	
SECOND YEAR		
FIRST SEMESTER		
_____ GE 3 (Science 11)	3	
_____ Physics 62 (Physics in the Life Sciences II)	3	Physics 61 & Physics 61.1
_____ Physics 62.1 (Physics in the Life Sciences II Lab)	1	Physics 61 & Physics 61.1
_____ Biology 120 (Microbiology)	5 (3 lec; 2 lab)	Biology 110, Chem 41 or Chem 40 & Chem 40.1
_____ Biology 125 (Plant Morphology and Physiology)	5 (3 lec; 2 lab)	Biology 110
_____ Biology 181 (Experimental Design and Statistical Analysis)	3 (2 lec; 1 lab)	Biology 180
_____ PE 2 _____	<u>(2)</u>	
	20	
SECOND SEMESTER		
_____ GE 4 _____	3	
_____ Or Com 111	3	
_____ Biology 128 (Plant Systematics)	3 (1 lec; 2 lab)	Biology 110
_____ Biology 140 (Genetics)	5 (3 lec; 2 lab)	Biology 180
_____ Biology 160 (Ecology)	5 (3 lec; 2 lab)	Biology 180 & Biology 116 or Biology 128
_____ PE 2 _____	<u>(2)</u>	
	19	
MIDYEAR		
_____ GE 5 _____	3	
_____ GE 6 _____	<u>3</u>	
	6	

THIRD YEAR

FIRST SEMESTER

_____ Biology 133 (Developmental Biology)	5 (3 lec; 2 lab)	Biology 125 & Biology 126 _____
_____ PI 100	3	
_____ Biology 150 (Cell and Molecular Biology)	5 (3 lec; 2 lab)	Biology 110, Chem 41 or Chem 40 & Chem 40.1
_____ Major 1	<u>3</u>	
	18	

Biomedical Environmental Science Track

Microbiology Track

	Subject	Units	Prerequisite	Subject	Units	Prerequisite
Major 1	Biology 134 (Animal Histology)	3 (1 lec; 2 lab)	Biology 110	Microbiology 126 (Microbial Genetics)	3 (2 lec; 1 lab)	Biology 120

SECOND SEMESTER

GE 8 _____	3	
Biology 192 (Biological Evolution)	3 (2 lec; 1 lab)	Biology 140
Biology 199 (Research Methodology)	3	Junior Standing*
_____ Major 2 _____	3	
_____ Major 3 _____	3	
_____ Major 4 _____	<u>3</u>	
	18	

Biomedical Environmental Science Track

Microbiology Track

	Subject	Units	Prerequisite	Subject	Units	Prerequisite
Major 2	Biology 166 (Ecosystem Health)	3 (2 lec; 1 lab)	Biology 160	Microbiology 127 (Microbial Taxonomy)	3 (2 lec; 1 lab)	Biology 120
Major 3	Biology 167 (Environmental Impact Assessment)	3 lec	Biology 160 & Biology 180	Microbiology 122 (Environmental Microbiology)	3 (2 lec; 1 lab)	Biology 120
Major 4	Biology 169 (Conservation Genetics)	3 lec	Biology 140, Biology 150, Biology 160 & Biology 180	Microbiology 124 (Food Microbiology)	3 (2 lec; 1 lab)	Biology 120

MIDYEAR

_____ Biology 191 (Practicum)	3	Incoming Senior
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FOURTH YEAR

FIRST SEMESTER

PI 100 _____	3	
Elective _____	3	
Qualified Elective 1 _____	3	
Biology 196 (Undergraduate Seminar)	1	Senior Standing**
Biology 200.1 (Undergraduate Thesis I)	2	Senior Standing & Biology 199
Major 5	3	
Major 6	3	
	18	

Biomedical Environmental Science Track				Microbiology Track		
	Subject	Units	Prerequisite	Subject	Units	Prerequisite
Major 5	Biology 171 (Bioinformatics)	3 (2 lec; 1 lab)	Biology 140, Biology 150 & Biology 180	Microbiology 125 (Industrial Microbiology)	3 lec	Biology 120
Major 6	Biology 151 (Immunology)	3 (2 lec; 1 lab)	Biology 110, Chem 41 or Chem 40 and Chem 40.1	Microbiology 123 (Microbial Physiology)	3 lec	Biology 120

SECOND SEMESTER

Biology 200.2 (Undergraduate Thesis II)	2	Biology 200.1
Qualified Elective 2 _____	3	
Major 7	3	
Major 8	<u>3</u>	
	11	

Biomedical Environmental Science Track				Microbiology Track		
	Subject	Units	Prerequisite	Subject	Units	Prerequisite
Major 7	Biology 168 (Ecotoxicology)	3 (2 lec; 1 lab)	Biology 160 and Chem 33	Biology 151 (Immunology)	3 (2 lec; 1 lab)	Biology 110, Chem 41 or Chem 40 and Chem 40.1
Major 8	Biology 173 (Parasitology)	3 (1 lec; 2 lab)	Biology 116	Biology 155 (Biology of Viruses)	3 (2 lec; 1 lab)	Biology 120 & Biology 150

A BS Biology student will take two qualified electives. They will choose from the list below.***

SUBJECTS	UNITS	PREREQUISITE
1. Biology 112 Mycology	3 (2 lec; 1 lab)	Bio 110
2. Biology 124 Radiation Biology	3 lec	Senior Standing
3. Biology 127 Medicinal Botany	3 (2 lec; 1 lab)	
4. Biology 152 Reproductive Biology	3 lec	Biology 110
5. Biology 153 Forensic Biology	3 (2 lec, 1 lab)	Biology 110
6. Biology 154 Human Biology	3 (2 lec; 1 lab)	Biology 110
7. Biology 161 Field Biology	3 (1 lec; 2 lab)	Biology 160 & PE 2 (Basic Swimming)
8. Biology 164 Philippine Biodiversity	3 lec	Biology 160
9. Biology 165 Biogeography	3 lec	Biology 110
10. Biology 170 Restoration Ecology	3 lec	Biology 160 & Biology 180
11. Biology 174 Entomology	3 (2 lec; 1 lab)	Biology 116
12. Biology 175 Protozoology	3 (2 lec; 1 lab)	Biology 110
13. Public Health 155 Medical and Public Health Microbiology for the Health Sciences	3 (1.5 lec; 1.5 lab)	Biology 120

***Junior Standing** means must have passed all the 55 units core courses (except Biology 196 and Biology 199)

****Senior Standing** means must have passed 122 academic units under the BS Biology Program including the core courses (except Bio 196)

*******A student under the Biomedical Environmental Science Track may take as qualified electives, subjects under the major courses of the Microbiology Track and similarly a student under the Microbiology Track may take as qualified electives, subjects under the major courses of the Biomedical Environmental Science Track.

SUMMARY	
	UNITS
GE Courses	24
Legislated Course	3
Foundation Courses	25
Core Courses	59
Major Courses	24
Qualified Electives	6
Elective	3
Undergraduate Thesis	4
Practicum	3
Physical Education	(8)
NSTP	(6)
TOTAL	151

LIST OF COURSES

Core Courses	59 units				Qualified Electives	6 units
Newly Instituted	units	From the Old Program	units			units
Bio 110	5	Bio 116	3		Bio 112	3
Bio 125	5	Bio 120	5		Bio 124	3
Bio 126	5	Bio 133	5		Bio 127	3
Bio 128	3	Bio 140	5		Bio 152	3
Bio 181	3	Bio 150	5		Bio 153	3
		Bio 160	5		Bio 154	3
		Bio 180	3		Bio 161	3
		Bio 192	3		Bio 164	3
		Bio 196	1		Bio 165	3
		Bio 199	3		Bio 170	3
Total	21		38		Bio 174	3
					Bio 175	3
					Public Health 155	3

Major Courses

	Biomedical Environmental Science	24	Microbiology	24
1	Bio 134	3	Micro 126	3
2	Bio 166	3	Micro 127	3
3	Bio 167	3	Micro 122	3
4	Bio 169	3	Micro 124	3
5	Bio 171	3	Micro 125	3
6	Bio 151	3	Micro 123	3
7	Bio 168	3	Bio 151	3
8	Bio 173	3	Bio 155	3

Foundation Courses	25	GE Courses	24
Math 105	4	Core GE	
Chem 33	5	Comm 10	3
Chem 41	5	Wika 1	3
Physics 61	3	Kas 1	3
Physics 61.1	1	Ethics 1	3
Physics 62	3	Math 10	3
Physics 62.1	1	STS 1	3
Or Com 111	3	GE Electives	
			3
			3