

Republic of the Philippines
UNIVERSITY OF RIZAL SYSTEM
Province of Rizal

BACHELOR OF SCIENCE IN BIOLOGY
Major in Microbiology
Proposed Revised Curriculum Based on CMO 49, s. 2017
BOR Resolution No. 062-671-18

First Year – First Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Self 1	Understanding the Self	3	3	
Math 1	Mathematics in the Modern World	3	3	
Eng 1	Purposive Communication	3	3	
Hist 1	Readings in Philippine History	3	3	
Fil 1	Pag-aaral ng Diskurso sa Filipino	3	3	
Hum 1	Art Appreciation	3	3	
Elec 1	Living in the IT Era	3	3	
NSTP 1	National Service Training Program	3	3	
P.E. 1	Physical Fitness	2	2	
TOTAL			26	

First Year – Second Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
CW 1	The Contemporary World	3	3	
Sci, Tech & Society	Science, Technology & Society	3	3	
Rizal	Life and Works of National Hero Dr. Jose Rizal	3	3	
Ethics	Ethics	3	3	
Fil 2	Perspektibong Historikal ng Panitikan sa Pilipinas	3	3	Fil 1
Elec 2	Gender and Society	3	3	
Elec 3	Great Books	3	3	
Bio Tool 1	Chemical Biology I	2/3	3	
NSTP 2	National Service Training Program 2	3	3	NSTP 1
PE 2	Rhythmic Activities	2	2	P.E. 1
TOTAL			29	

Second Year - First Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Bot 1	General Botany	3/6	5	Bio Tool 1
Zoo 1	General Zoology	3/6	5	Bio Tool 1
Bio 2	Evolutionary Biology	3/6	5	Bio Tool 1
Bio Tool 2	Chemical Biology II	2/3	3	Bio Tool 1
Bio Tool 3	Statistical Biology	2/3	3	Math 1
Eng 2	English Language Enhancement Course	3	3	
PE 3	Individual/ Dual Sports	2	2	P.E. 1
TOTAL			26	



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Second Year - Second Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Specialization 1	Microbial Taxonomy	3/6	5	Bot 1 & 2
Specialization 2	Microbial Physiology	3/6	5	Bot 1 & 2
Bio 3	Systematics	3/6	5	Bot 1 & 2
Bio 4	Microbiology	3/6	5	Bot 1 & 2
Bio Tool 4	Chemical Biology III	3/6	5	Bio Tool 3
PE 4	Team Sports/Games	2	2	P.E.1
TOTAL			27	

Third Year – First Semester


Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Bio 5	General Physiology	3/6	5	Bio 3 & 4
Specialization 3	Virology	3/6	5	Specialization 1 & 2; Zoo 1
Specialization 4	Industrial Microbiology	3/6	5	Specialization 1 & 2; Zoo 1
Bio 6	General Ecology	3/6	5	Bio 2; Bio Tool 2
Bio Tool 5	Biophysics	2/6	4	Bio Tool 4
TOTAL			24	

Third Year - Second Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Specialization5	Food Microbiology	3/6	5	Specialization 4
Bio 7	Developmental Biology	3/6	5	Bot 1; Zoo 1 Bio 5
Free Elect 1	Pharmacology	3	3	
Bio 8	Genetics	3/6	5	Bio Tool 2; Bio 5
Lit 2	Readings on World's Literary Masterpieces	3	3	
Thesis 1	Undergraduate Thesis Writing I in Biology	3	3	Junior Standing
TOTAL			24	

Fourth Year - First Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Specialization6	Microbial Ecology	3/6	5	Specialization 5
Specialization7	Microbial Genetics	3/6	5	Specialization 5
Bio 9	Cell and Molecular Biology	3/6	5	Bio 8
Thesis II	Undergraduate Thesis Writing II in Biology	3	3	Thesis 1
Bio Tool 6	Bioethics	3	3	
TOTAL			21	



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Fourth Year - Second Semester

Course Code	Descriptive Title	Hours/Wk Lec/Lab	Credit Unit	Pre Requisite/ Corequisite
Practicum	Job Immersion	240 hrs	3	Senior Standing
Free Elec 2	Pathology	3	3	
TOTAL			6	

Summary

	No. of Units
General Education	45
Biology Tool Courses	21
Fundamental Courses	50
Specialization Courses	35
Free Electives	6
Undergraduate Thesis	6
Practicum	3
Mandated	
Rizal	3
Physical Education	8
NSTP	6
Total	183


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