



**CENTRAL PHILIPPINE UNIVERSITY  
COLLEGE OF ARTS AND SCIENCES**

Bachelor of Science in Biology with Specialization in Microbiology  
Based on CHED Memo Order 49 s. 2017  
Effective AY: 2018-2019

**COURSE OFFERING**

**FIRST YEAR**

***First Semester***

Grade	Subject Code	Subject Title	Lec.hrs./week	Lab.hrs./week	Credit Units	Pre-requisites & (Co-requisites)
	Zoo 1101	General Zoology	3	6	5.0	
	GESocSci 1	Understanding the Self	3	0	3.0	
	GEMath 1	Mathematics in the Modern World	3	0	3.0	
	GESocSci 4	The Contemporary World	3	0	3.0	
	RE 1	Christianity in a Changing Society	3	0	3.0	
	SEAL 1	Student Enhancement Activities for Life I	1	0	1.0	
	PE 1a (W)	Physical Fitness and Wellness	(2)	0	(2.0)	
	PE 2B (M)	Individual/Dual Sports(Swimming)	(2)	0	(2.0)	
	NSTP1- CWTS LTS ROTC	Civic Welfare Training Service Literacy Training Service Reserve Officers' Training Corps	(3)	0	(3.0)	
		<b>TOTAL ACADEMIC UNITS</b>	<b>21</b>	<b>6</b>	<b>23</b>	

***Second Semester***

	Bot 1201	General Botany	3	6	5.0	
	Chem 3b	Organic Molecules (for Biology)	2	3	3.0	
	GEEng 1	Purposive Communication	3	0	3.0	
	GESocSci 2	Readings in Philippine History	3	0	3.0	
	RE 2	Christian Ethics in a Changing World	3	0	3.0	
	SEAL 2	Student Enhancement Activities for Life II	1	0	1.0	
	PE 2B(W)	Individual/Dual Sports(Swimming)	(2)	0	(2.0)	
	PE 1a (M)	Physical Fitness and Wellness	(2)	0	(2.0)	
	NSTP2- CWTS LTS ROTC	Civic Welfare Training Service Literacy Training Service Reserve Officers' Training Corps	(3)	0	(3.0)	
		<b>TOTAL ACADEMIC UNITS</b>	<b>20</b>	<b>9</b>	<b>23</b>	

**SECOND YEAR*****First Semester***

Grade	Subject Code	Subject Title	Lec.hrs./ week	Lab.hrs./ week	Credit Units	Pre-requisites & (Co-requisites)
	Bio 2102	Systematic Biology	3	6	5.0	Zoo 1101 (Bot.1201)
	Lab Tech 1	Laboratory Techniques	2	3	3.0	
	GESocSci 6	Science, Technology and Society	3	0	3.0	
	Chem 4b	Analytical Methods for Biology	2	3	3.0	Chem 3b
	GESocSci 5	Ethics	3	0	3.0	
	Fil 12	Sayko-Sosyolinggwistik na Pag-aaral ng Wikang Filipino	3	0	3.0	
	PE 3a	Rhythmic Activities	(2)	0	(2.0)	
		<b>TOTAL ACADEMIC UNITS</b>	<b>18</b>	<b>12</b>	<b>22</b>	

***Second Semester***

	Chem 5c	Biomolecules	3	6	5.0	Chem 4b
	Bio 2201	General Physiology	3	6	5.0	Bot 1201, Zoo 1101
	Micro 2201	General Microbiology	3	6	5.0	
	Fil 13	Pagsusuri at Pagpapahalaga ng mga Kontemporaryong Panitikan	3	0	3.0	
	GESocSci 3	Life and Works of Rizal	3	0	3.0	
	PE 4a (W)	Team Sports (Basketball/Volleyball)	(2)	0	(2.0)	
	PE 4a (M)	Team Sports (Basketball/Volleyball)	(2)	0	(2.0)	
		<b>TOTAL ACADEMIC UNITS</b>	<b>17</b>	<b>18</b>	<b>23</b>	

**THIRD YEAR*****First Semester***

	Bio 3101	Cell and Molecular Biology	4	3	5.0	Zoo 1101, (Bot. 1201)
	Micro 3102	Industrial and Food Microbiology	4	3	5.0	Micro 2201
	Bio 3103	General Ecology	3	6	5.0	Bot 1201, Zoo 1101
	Micro 3103	Microbial Physiology	4	3	5.0	Micro 2201
	Math 3114	Statistical Biology	2	3	3.0	GEMath 1
	BioR 3101	Thesis I (Research Proposal)	1	3	2.0	Micro 2201
		<b>TOTAL ACADEMIC UNITS</b>	<b>18</b>	<b>21</b>	<b>25</b>	

***Second Semester***

	Micro 3204	Microbial Ecology	4	3	5.0	Micro 2201
	Micro 3205	Medical Microbiology	4	3	5.0	Micro 2201
	Bio 3202	Marine Biology	2	3	3.0	Zoo 1101, (Bot 1201)
	Bio 3204	Evolutionary Biology	3	0	3.0	Zoo 1101
	CEArts 2	Indigenous Creative Crafts	3	0	3.0	
	BioR 3202	Thesis II (Research Implementation)	1	3	2.0	BioR 3101
		<b>TOTAL ACADEMIC UNITS</b>	<b>17</b>	<b>12</b>	<b>21</b>	

**SUMMER YEAR****Bio 4000 On the Job Training****360 hours 3.0****60% of major courses**

**FOURTH YEAR*****First Semester***

<b>Grade</b>	<b>Subject Code</b>	<b>Subject Title</b>	<b>Lec.hrs./week</b>	<b>Lab.hrs./week</b>	<b>Credit Units</b>	<b>Pre-requisites &amp; (Co-requisites)</b>
	Phys 15	Biophysics	3	3	4.0	<i>GEMath 1</i>
	Bio 4101	Fundamentals of Genetics	4	3	5.0	<i>Bio 3101</i>
	Zoo 4103	General Parasitology	2	3	3.0	
	BioR 4103	Thesis III (Revision and Submission)	2	0	2.0	<i>BioR 3302</i>
	Micro 4106	Virology and Pathology	2	0	2.0	<i>Micro 2201</i>
	CETech 1	Living in the IT Era	3	0	3.0	
		<b>TOTAL ACADEMIC UNITS</b>	<b>16</b>	<b>9</b>	<b>19</b>	

***Second Semester***

	Bio 4201	Biotechnology	2	3	3.0	<i>Bio 3101</i>
	CESci3	Human Reproduction	3	0	3.0	
	GEHum 1	Art Appreciation	3	0	3.0	
	Bio 3203	Developmental Biology	4	3	5.0	
		<b>TOTAL ACADEMIC UNITS</b>	<b>12</b>	<b>6</b>	<b>14</b>	

**Prepared by:**

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