

**CENTRO ESCOLAR UNIVERSITY**

Manila

**School of Science and Technology**

FOUR-YEAR PROGRAM LEADING TO THE DEGREE

**BACHELOR OF SCIENCE IN BIOLOGY**

Effective School Year 2023-2024

**FIRST YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCBO101	General Botany	3	2	0	5	3	6	0	9	NONE
PCCH100	Inorganic Chemistry	2	1	0	3	2	3	0	5	NONE
COMA11	Mathematics in the Modern World	3	0	0	3	3	0	0	3	NONE
COPY11	Understanding the Self	3	0	0	3	3	0	0	3	NONE
COPE21	PATH-FIT 1: Movement Competency Training	2	0	0	2	2	0	0	2	NONE
COSH11	Empowering the Self	2	0	0	2	2	0	0	2	NONE
COSH21	Religion: History and Texts	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>18</b>	<b>3</b>	<b>0</b>	<b>21</b>	<b>18</b>	<b>9</b>	<b>0</b>	<b>27</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCCH103	Organic Chemistry	3	2	0	5	3	6	0	9	PCCH 100
PCZO101	General Zoology	3	2	0	5	3	6	0	9	NONE
COLA11	Purposive Communication	3	0	0	3	3	0	0	3	NONE
COLA31	Foreign Language 1	3	0	0	3	3	0	0	3	NONE
COLA51	Expository Writing for Global Communication	3	0	0	3	3	0	0	3	NONE
COSH31	Art Appreciation	3	0	0	3	3	0	0	3	NONE
COSH41	Readings in Philippine History	3	0	0	3	3	0	0	3	NONE
COPE22	PATH-FIT 2: Swimming/Recreation	2	0	0	2	2	0	0	2	NONE
<b>TOTAL</b>		<b>23</b>	<b>4</b>	<b>0</b>	<b>27</b>	<b>23</b>	<b>12</b>	<b>0</b>	<b>35</b>	

\*Those who want to take the Licensure Exam for Teachers (LET) may take 18 units of education subjects from SELAMS.

**SECOND YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCCH104	Biochemistry	3	2	0	5	3	6	0	9	PCCH 103
PCCH106	Analytical Chemistry with Instrumentation	3	2	0	5	3	6	0	9	NONE
PRBI132	Comparative Anatomy and Phylogeny of Vertebrates	3	2	0	5	3	6	0	9	PCZO 101
COLA32	Foreign Language 2	3	0	0	3	3	0	0	3	COLA 31
CONS21	Science, Technology and Society	3	0	0	3	3	0	0	3	NONE
COSH43	The Life and Works of Rizal	3	0	0	3	3	0	0	3	NONE
COPE23	PATH-FIT 3: Dance/Individual-Dual Sports	2	0	0	2	2	0	0	2	NONE
CONP11	NSTP 1	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>23</b>	<b>6</b>	<b>0</b>	<b>29</b>	<b>23</b>	<b>18</b>	<b>0</b>	<b>41</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI121	Systematic Botany	3	2	0	5	3	6	0	9	PCBO 101
PRBI131	Systematic Zoology	3	2	0	5	3	6	0	9	PRBI 132
PRBI150	General Physiology	3	2	0	5	3	6	0	9	PCBO 101, PCZO 101
COSH32	Ethics	3	0	0	3	3	0	0	3	NONE
COSH42	The Contemporary World	3	0	0	3	3	0	0	3	NONE
COPE24	PATH-FIT 4: Team Sports/Games	2	0	0	2	2	0	0	2	NONE
CONP12	NSTP 2	3	0	0	3	3	0	0	3	CONP 11
<b>TOTAL</b>		<b>20</b>	<b>6</b>	<b>0</b>	<b>26</b>	<b>20</b>	<b>18</b>	<b>0</b>	<b>38</b>	

**THIRD YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCMA101	Biostatistics	3	0	0	3	3	0	0	3	COMA 11
PRBI133	Evolutionary Biology	3	2	0	5	3	6	0	9	PRBI 121, PRBI 131, *PRBI 160
PRBI134	Developmental Biology	3	2	0	5	3	6	0	9	PRBI 132, PRBI 150
PRBI160	Genetics	3	2	0	5	3	6	0	9	PCBO 101, PCZO 101
PRBI170	General Microbiology	3	2	0	5	3	6	0	9	PCBO 101, PCZO 101
<b>TOTAL</b>		<b>15</b>	<b>8</b>	<b>0</b>	<b>23</b>	<b>15</b>	<b>24</b>	<b>0</b>	<b>39</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PCBI111	Bioinformatics	2	1	0	3	2	3	0	5	PRBI 160, PRBI 133, *PRBI 161
PCPD102	Biophysics	2	2	0	4	2	6	0	8	NONE
PRBI141	Field Biology and Ecology	3	2	0	5	3	6	0	9	PRBI 170, PRBI 131, PRBI 160
PRBI152	Immunology	3	0	0	3	3	0	0	3	PRBI 150
PRBI161	Cell and Molecular Biology	3	2	0	5	3	6	0	9	PRBI 160
COSH12	Living and Loving Relationships	2	0	0	2	2	0	0	2	COSH 11
COSH22	Man, Church and Society	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>18</b>	<b>7</b>	<b>0</b>	<b>25</b>	<b>18</b>	<b>21</b>	<b>0</b>	<b>39</b>	

**Summer**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI183	Work Orientation Seminar / Practicum (200 hours)	-	-	4	4	2	0	40	42	All 3 <sup>rd</sup> Year Courses
<b>TOTAL</b>		<b>-</b>	<b>-</b>	<b>4</b>	<b>4</b>	<b>2</b>	<b>0</b>	<b>40</b>	<b>42</b>	

**FOURTH YEAR**

**First Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI122	Economic Botany	3	0	0	3	3	0	0	3	All 3 <sup>rd</sup> Year Courses
PRBI137	Biological Techniques	3	2	0	5	3	6	0	9	All 3 <sup>rd</sup> Year Courses
PRBI136	Medical Histology	3	2	0	5	2	3	0	5	All 3 <sup>rd</sup> Year Courses
PRBI191	Undergraduate Research 1	2	1	0	3	2	3	0	5	All 3 <sup>rd</sup> Year Courses
COLA21	Malikhaing Komunikasyon Gamit ang Panitikang Popular	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>14</b>	<b>5</b>	<b>0</b>	<b>19</b>	<b>13</b>	<b>12</b>	<b>0</b>	<b>25</b>	

**Second Semester**

Class Code	Descriptive Title	Units				No. of Hours				Pre-requisite / * Co-requisite
		Lec	Lab	Int	Total	Lec	Lab	Int	Total	
PRBI135	Human Anatomy	3	2	0	5	2	6	0	8	All 3 <sup>rd</sup> Year Courses
PRBI151	Human Physiology	2	2	0	4	2	6	0	8	All 3 <sup>rd</sup> Year Courses
PRBI192	Undergraduate Research 2	2	1	0	3	2	3	0	5	All 3 <sup>rd</sup> Year Courses
COCE51	Internet of Things	3	0	0	3	3	0	0	3	NONE
<b>TOTAL</b>		<b>10</b>	<b>5</b>	<b>0</b>	<b>15</b>	<b>9</b>	<b>15</b>	<b>0</b>	<b>24</b>	

**Total No. of Units:**

**189**