



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

**BACHELOR OF SCIENCE IN CHEMISTRY  
Based on CHED Memo Order 47 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)
	GEMath 1	Mathematics in the Modern World	3	0	3.0	None
	GEEng 1	Purposive Communication	3	0	3.0	"
	GESocSci 1	Understanding the Self	3	0	3.0	"
	Chem 1101	Principles of Chemistry	3	6	5.0	"
	SEAL 1	Student Enhancement Activities for Life I	1	0	1.0	
	RE 1	Christianity in a Changing Society	3	0	3.0	"
	PE 1a(W)	Physical Fitness and Wellness	(2)	0	(2.0)	"
	PE 2B(M)	Individual/Dual Sports (Swimming)	(2)	0	(2.0)	"
	NSTP 1- CWTS LTS ROTC	Civic Welfare Training Service Literacy Training Service Reserve Officers' Training Corps	(3)	0	(3.0)	None
	<b>TOTAL ACADEMIC UNITS</b>		<b>21</b>	<b>6</b>	<b>23.0</b>	

**Second Semester**

	Chem 1202	Inorganic Chemistry I	3	6	5.0	Chem 1101
	Math 1210	Mathematical Analysis I	4	0	4.0	GEMath 1
	Phys 3	General College Physics I	3	6	5.0	GEMath 1
	GESocSci 6	Science, Technology and Society	3	0	3.0	None
	RE 2	Christian Ethics in a Changing World	3	0	3.0	RE 1
	SEAL 2	Student Enhancement Activities for Life II	1	0	1.0	SEAL 1
	PE 2B (W)	Individual/Dual Sports (Swimming)	(2)	0	(2.0)	
	PE 1a (M)	Physical Fitness and Wellness	(2)	0	(2.0)	
	NSTP 2- CWTS LTS ROTC	Civic Welfare Training Service Literacy Training Service Reserve Officers' Training Corps	(3)	0	(3.0)	NSTP 1
	<b>TOTAL ACADEMIC UNITS</b>		<b>22</b>	<b>12</b>	<b>26.0</b>	

**SECOND YEAR**

**First Semester**

Grade	Subject Code	Subject Title	Lec.hrs./week	Lab.hrs./week	Credit Units	Pre-requisites & (Co-requisites)
	Chem 2103	Organic Chemistry I	3	6	5.0	Chem 1101
	Chem 2105	Analytical Chemistry I	3	6	5.0	Chem 1202
	Phys 7	General College Physics II	3	6	5.0	Phys 3
	Math 2112	Mathematical Analysis II	4	0	4.0	Math 1210
	Fil 12	Sayko-Sosyolinggwistik na Pag-aaral ng Wikang Filipino	3	0	3.0	None
	PE 3a	Rhythmic Activities	(2)	0	(2.0)	None
	<b>TOTAL ACADEMIC UNITS</b>		<b>18</b>	<b>18</b>	<b>24.0</b>	

**Second Semester**

	Chem 2204	Organic Chemistry II	3	6	5.0	Chem 2103
	Chem 2206	Analytical Chemistry II (with Technical Analysis)	3	6	5.0	Chem 2105
	Chem 2208	Physical Chemistry I	3	3	4.0	Chem 2105 / Math 2112
	Math 2215	Differential Equations	3	0	3.0	Math 2112
	Fil 13	Pagsusuri at Pagpapahalaga ng mga Kontemporaryong Panitikan	3	0	3.0	Fil 12
	PE 4a (W)	Team Sports (Basketball & Volleyball)	(2)	0	(2.0)	none
	PE 4a (M)	Team Sports (Basketball & Volleyball)	(2)	0	(2.0)	
		<b>TOTAL ACADEMIC UNITS</b>	<b>17</b>	<b>18</b>	<b>22.0</b>	

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

Grade	Subject Code	Subject Title	Lec.hrs./ week	Lab.hrs./ week	Credit Units	Pre-requisites & (Co-requisites)
	Chem 3111	Biochemistry I	3	6	5.0	Chem 2204
	Chem 3109	Physical Chemistry II	3	3	4.0	Chem 2208
	Chem 3107	Analytical Chemistry III (Instrumental Analysis)	3	3	4.0	Chem 2206
	GESocSci 4	The Contemporary World	3	0	3.0	None
	GESocSci 5	Ethics	3	0	3.0	none
	GEHum 1	Art Appreciation	3	0	3.0	none
		<b>TOTAL ACADEMIC UNITS</b>	<b>18</b>	<b>12</b>	<b>22.0</b>	

**Second Semester**

	Chem 3210	Physical Chemistry III (Quantum Chemistry)	3	0	3.0	Chem 3109 / Math 2215
	Chem 3212	Biochemistry II	3	6	5.0	Chem 3111
	Chem 3215	Industrial Chemistry	3	0	3.0	Chem 3107
	GESocSci 3	Life and Works of Rizal	3	0	3.0	none
	Math 28	Biostatistics	3	0	3.0	GEMath 1
		<b>TOTAL ACADEMIC UNITS</b>	<b>15</b>	<b>6</b>	<b>17.0</b>	

**SUMMER YEAR**

	Chem 3314	Professional Engagement (On the Job Training)	Minimum <b>240</b> Hours	3.0	Chem 3107
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**FOURTH YEAR****First Semester**

Grade	Subject Code	Subject Title	Lec.hrs./ week	Lab.hrs./ week	Credit Units	Pre-requisites & (Co-requisites)
	Chem 4118	Thesis I	3	0	3.0	Chem 3107 / Chem 3212
	Chem 4113	Inorganic Chemistry II	3	0	3.0	Chem 3109
	Chem 4116	Environmental Chemistry	3	0	3.0	
	CETech 1	Living in the IT Era	3	0	3.0	none
	CELit 1	Great Books	3	0	3.0	none
	CESocSci 4	The Entrepreneurial Mind	3	0	3.0	none
		<b>TOTAL ACADEMIC UNITS</b>	<b>18</b>	<b>0</b>	<b>18.0</b>	

**Second Semester**

	Chem 4219	Thesis II	1	2	3.0	Chem 4118
	Chem 4217	Advanced Organic Chemistry	3	0	3.0	Chem 2204/ Chem 3107
	Chem 4220	Comprehensive Review with Comprehensive Examinations	5	0	5.0	Last semester term
	GESocSci 2	Readings in Philippine History	3	0	3.0	none
		<b>TOTAL ACADEMIC UNITS</b>	<b>12</b>	<b>2</b>	<b>14.0</b>	

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