BACHELOR OF SCIENCE IN CHEMISTRY

Per CMO No. 47, series of 2017

Effective School Year 2018-2019

FIRST YEAR

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
GE 1	Understanding the Self	3		3	
GE 2	Readings in Philippine History	3		3	
GE 3	The Contemporary World	3		3	
FIL 1	Akademiko sa Wikang Filipino	3		3	
CHEM 100	Principles of Chemistry	3	2	5	
CHEM 101	Chemistry Tutorial 1	1		1	
PE 1	Physical Fitness and Health	2		2	
NSTP 1	National Service Training Program 1	3		3	
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	TOTAL	21	2	23	

Second Semester							
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.		
GE 5	Purposive Communication	3		3			
GE 6	Art Appreciation	3		3			
GE 7	Science, Technology and Society	3		3			
MATH 100	Calculus I	5		5			
PHYS 1	Physics 1	3	2	5			
CHEM 102	Inorganic Chemistry 1	2	1	3	CHEM 100		
CHEM 103	Chemistry Tutorial 2	1		1			
PE 2	Recreational Games and Sports	2		2	PE 1		
NSTP 2	National Service Training Program 2	3		3	NSTP I		
	TOTAL	25	3	28			

Enhancement (For OFF-TRACK Senior High School graduates)
EN PRECAL Pre-Calculus 3

EN BACAL Basic Calculus

SECOND YEAR

First Semester								
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.			
MATH 102	Calculus II	5		5	MATH 100			
PHYS 2	Physics 2	3	2	5	PHYS 1			
CHEM 200	Analytical Chemistry 1	3	2	5	CHEM 102			
CHEM 201	Organic Chemistry 1	3	2	5	CHEM 102			
CHEM 202	Chemistry Tutorial 3	1		1	2nd Year Standing			
GEN BIO	General Biology	3	2	5				
PE 3	Rhythmic and Social Recreation	2		2	PE 1			
	TOTAL	20	8	28				

Second Semester								
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.			
FIL 2	Pagbasa at Pagsulat sa Iba't Ibang Disiplina	3		3	FIL 1			
MATH 204	Intro to Probability and Statistics	3		3				
CHEM 203	Organic Chemistry 2	3	2	5	CHEM 201			
CHEM 204	Physical Chemistry 1	3	2	5	CHEM 200			
CHEM 205	Analytical Chemistry 2	3	2	5	CHEM 200			
CHEM 206	Chemistry Tutorial 4	1		1	2nd Year Standing			
PE 4	Cultural Presentation & Sports Management	2		2	PE 1			
	TOTAL	18	6	24				

THIRD YEAR

First Semester									
Subject Descriptive Title Lec Lab Total Pre-req.									
Biochemistry 1	3	2	5	CHEM 203					
Physical Chemistry 2	3	2	5	CHEM 204					
Analytical Chemistry 3	3	2	5	CHEM 205					
Chemistry Tutorial 5	1		1	3rd Year Standing					
Mathematics in the Modern World	3		3						
World Literature	3		3						
Life and Works of Rizal	3		3						
			0						
TOTAL	19	6	25						
	Descriptive Title Biochemistry 1 Physical Chemistry 2 Analytical Chemistry 3 Chemistry Tutorial 5 Mathematics in the Modern World World Literature Life and Works of Rizal	Descriptive Title Lec Biochemistry 1 3 Physical Chemistry 2 3 Analytical Chemistry 3 3 Chemistry Tutorial 5 1 Mathematics in the Modern World 3 World Literature 3 Life and Works of Rizal 3	Descriptive Title Lee Lab Biochemistry 1 3 2 Physical Chemistry 2 3 2 Analytical Chemistry 3 3 2 Chemistry Tutorial 5 1 1 Mathematics in the Modern World 3 3 World Literature 3 3 Life and Works of Rizal 3 3	Descriptive Title Lec Lab Total Biochemistry 1 3 2 5 Physical Chemistry 2 3 2 5 Analytical Chemistry 3 3 2 5 Chemistry Tutorial 5 1 1 1 Mathematics in the Modern World 3 3 World Literature 3 3 Life and Works of Rizal 3 3 0 0					

Second Semester										
Subject Descriptive Title Lec Lab Total Pre-req.										
BIO 200	Microbiology	3	2	5	CHEM 201					
CHEM 304	Chemical Innovation	2	1	3	CHEM 205					
CHEM 305	Physical Chemistry 3	3		3	CHEM 301					
CHEM 306	Biochemistry 2	2	1	3	CHEM 300					
CHEM 307	Introduction to Chemical Research Methods	1		1	3rd year standing					
CHEM 308	Chemistry Tutorial 6	1		1	3rd year standing					
GE 8	Ethics	3		3						
Entrep	Entrepreneurship	3		3						
	TOTAL	18	4	22						

SUMMER

	Subject	Descriptive Title	Lec	Lab	Tota	Pre-req.
С	HEM 309	Internship 1 (200 hours)	3		3	All Major Subjects and at least 90% of all subjects from first year to third year

FOURTH YEAR

First Semester								
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.			
CHEM 401	Environmental Chemistry	3		3	CHEM 302			
CHEM 402	Electrochemistry	3		3	CHEM 200,302			
CHEM 403	Inorganic Chemistry 2	2	1	3	CHEM 102,301			
CHEM 404	Thesis	3		3	4th year standing			
	TOTAL	11	1	12				

Second Semester								
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.			
CHEM 405	Industrial Chemistry	3		3	CHEM 401			
CHEM 406	Advanced Organic Chemistry	2	1	3	CHEM 203			
CHEM 407	Research Writing and Seminar	2		2	CHEM 404			
CHEM 408	Biochemistry 3	2	1	3	CHEM 306			
	TOTAL	9	2	11				

	No. of Units
Gen. Education Curriculum	42
Core Courses	
i. Ancillary Courses	25
ii. Chemistry	60
Electives	29
Thesis and Professional Engagement	6
Physical Education	8
National Service Training Program	6
Total	176
With Enhancement	6
Total	182