

**BACHELOR OF SCIENCE IN CHEMISTRY**

<b>FIRST YEAR</b>						
<b>FIRST SEMESTER</b>						
<b>CATALOUGE NUMBER</b>		<b>DESCRIPTIVE TITLE</b>	<b>LEC</b>	<b>LAB</b>	<b>TOTAL</b>	<b>PREREQUISITE</b>
BIO	100	Fundamentals of Biological Sciences	2	1	3	NONE
CHEM	101	General Chemistry I	3	2	5	NONE
ENGL	100	Study and Thinking Skills	3	0	3	NONE
FILI	100	Komunikasyon sa Akademikong Filipino	3	0	3	NONE
MATH	100	College Algebra	3	0	3	NONE
PI	100	Rizal's Life, Works and Writings	3	0	3	NONE
SOCSCI	100	Society and Culture with Family Planning	3	0	3	NONE
PE	100	Foundation of Physical Fitness	2	0	2	NONE
NSTP	1	National Service Training Program I	3	0	3	NONE
			TOTAL:		25	
<b>SECOND SEMESTER</b>						
<b>CATALOUGE NUMBER</b>		<b>DESCRIPTIVE TITLE</b>	<b>LEC</b>	<b>LAB</b>	<b>TOTAL</b>	<b>PREREQUISITE</b>
COMSCI	100	Computer Fundamentals	2	1	3	MATH 100
ENGL	105	Speech Communication	3	0	3	ENGL 100
ERTSCI	100	Earth Science	3	0	3	NONE
FILI	105	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	FILI 100
HUMAN	100	Introduction to the Humanities	3	0	3	NONE
MATH	105	Plane Trigonometry	3	0	3	MATH 100
CHEM	110	Basic Inorganic Chemistry	3	2	5	CHEM 101
PE	105	Rhythmic Activities	2	0	2	PE 100
NSTP	2	National Service Training Program II	3	0	3	NSTP 1
			TOTAL:		25	
<b>SUMMER</b>						
<b>CATALOUGE NUMBER</b>		<b>DESCRIPTIVE TITLE</b>	<b>LEC</b>	<b>LAB</b>	<b>TOTAL</b>	<b>PREREQUISITE</b>
			TOTAL:			

**SECOND YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ECON	100	Prin of Economics w/ Land Reform & Taxation	3	0	3	NONE
ENGL	110	Writing in the Discipline	3	0	3	ENGL 100
MATH	200	College Algebra II	2	0	2	MATH 100
MATH	216	Analytic Geometry	3	0	3	MATH 105
PHYS	106	Mechanics and Heat	3	1	4	MATH 105
CHEM	231	Basic Analytical Chemistry	3	2	5	CHEM 110, coreq MATH 105
PE	110	Individual and Dual Sports	2	0	2	PE 100
			TOTAL:		22	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
MATH	217	Calculus I	3	0	3	MATH 200, 216
PSYCH	100	General Psychology	3	0	3	NONE
PHYS	206	Electricity, Magnetism and Optics	2	2	4	PHYS 106
CHEM	201	Organic Chemistry I	3	2	5	CHEM 101
CHEM	235	Advanced Analytical Chemistry	3	2	5	CHEM 231, coreq MATH 217
PE	115	Team Sports	2	0	2	PE 100
			TOTAL:		22	

**SUMMER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
			TOTAL:			

**THIRD YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
ENGL	115	Introduction to Literature	3	0	3	ENGL 105, 110
MATH	218A	Calculus II	3	0	3	MATH 217
STAT	200	Introduction to Statistics	2	1	3	MATH 100
CHEM	206	Organic Chemistry II	3	2	5	CHEM 201
CHEM	250	Physical Chemistry I: Chemical Thermodynamics	3	0	3	CHEM 231, PHYS 206 coreq MATH 218A
CHEM	255	Physical Chemistry I Laboratory	0	1	1	CHEM 235, MATH 217, PHYS 206
TOTAL:					18	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
MATH	230	Differential Equations	3	0	3	MATH 218A
PHYS	205	Atomic and Modern Physics	3	0	3	PHYS 206
CHEM	210	Advanced Organic Chemistry	3	0	3	CHEM 206
CHEM	220	Biochemistry	3	2	5	CHEM 201
CHEM	260	Physical Chemistry II: Chemical Kinetics	3	0	3	CHEM 250, 255
CHEM	265	Physical Chemistry II Laboratory	0	1	1	CHEM 255, coreq CHEM 260
CHEM	395	Methods of Research for Chemistry	3	0	3	STAT 200
CHEM	210	Advanced Organic Chemistry	3	0	3	
TOTAL:					21	

**SUMMER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	399	Practicum	3	0	3	CHEM 235, Junior Standing
TOTAL:					3	

**FOURTH YEAR**

**FIRST SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
PHILO	120	Philosophy of the Human Person	3	0	3	NONE
CHEM	221	Biotechnology and Bioinformatics	3	0	3	CHEM 220
CHEM	266	Physical Chemistry III: Quantum Chemistry	3	0	3	CHEM 260, 265
CHEM	398	Seminar	1	0	1	Senior Standing
CHEM	400A	Undergraduate Thesis I	2	0	2	Senior Standing, CHEM 240
ELECTIVE	1		3	0	3	
			TOTAL:		15	

**SECOND SEMESTER**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
POLSCI	101	Philippine History with Politics and Governance	3	0	3	NONE
CHEM	285	Advanced Inorganic Chemistry	3	0	3	CHEM 266
CHEM	296	Patents, Intellectual Property Rights & Chemical Ethics	1	0	1	Senior Standing
CHEM	400B	Undergraduate Thesis II	3	0	3	Senior Standing, CHEM 400A
ELECTIVE	2		3	0	3	
			TOTAL:		13	

**TOTAL NUMBER OF UNITS – 164**

**ELECTIVE COURSES**

CATALOUGE NUMBER		DESCRIPTIVE TITLE	LEC	LAB	TOTAL	PREREQUISITE
CHEM	315	Chemistry of Natural Products	3	0	3	CHEM 210, 220
CHEM	320	Polymer Chemistry	3	0	3	CHEM 210, 220
CHEM	325	Toxicology	3	0	3	CHEM 220
CHEM	330	Materials Science	3	0	3	CHEM 210, 250, coreq, CHEM 285