

COLLEGE OF ARTS AND SCIENCES

Xavier University - Ateneo de Cagayan

BACHELOR OF SCIENCE IN CHEMISTRY

Effective SY 2010-2011

Option A (Eng 16.1)

as of Sept 21, 2010

FIRST YEAR

FIRST SEMESTER			SECOND SEMESTER					
		Lec Lab			Lec Lab			
CHEM 1.1	General Inorganic Chemistry (Lec)	3	BIO 31.1	Fundamentals of Biology I (Lec)	3	ECON 20.1	Principles of Economics w/	3
CHEM 1L	General Inorganic Chemistry (Lab)	2	BIO 31 L	Fundamentals of Biology I (Lab)	2		Taxation, Agrarian Reform	
ENG 16.1	Study, Thinking and Language Skills in English	3	CHEM 2.1	General Inorganic Chemistry II w/ Qualitative Analysis	3 2	FIL 33	Pagbasa at Pagsulat Tungo sa Pananaliksik	3
FIL 22	Komunikasyon sa Akademikong Filipino	3	COMP10.1	Intro to Computer and Information Technology	3	MATH 11	Basic Statistics	3
HIST 10.1	Philippine History and Institutions	3	ENG 17	Effective Speech Communication	3			
MATH 01*/1	College Algebra	3	HIST 11.1	Rizal's Life, Works & Writings	3			
PSYC 1	General Psychology	3	MATH 2	Plane Trigonometry	3			
FFP	Freshmen Formation Program	3	RS 15	The Old Testament	3			
P.E. 1	Physical Fitness	2	P.E. 2	Rhythmic Activities	2			
		Sub total 23 2			Sub Total 23 4			Sub Total 9
		Total 25			Total 27			Total 9

*For non-passers of classification test, recited daily

SECOND YEAR

FIRST SEMESTER			SECOND SEMESTER					
		Lec Lab			Lec Lab			
CHEM 6.1	Quantitative Analysis	3 2	CHEM 3	Organic Chemistry 1	3 2	ENG 34.1	The Literatures of the World	3
ENG 27	Writing Term Paper in the Discipline & Business Correspondence	3	MATH 5	Mathematical Analysis I	5	FIL 44	Masing na Pagpapahayag	3
ENG 41	Humanities, Art, Aesthetics & Society	3	PHILO 15.1	Philosophy of Man and the Human Person	3	SOC 01.1	Principles of Sociology w/ Population, Family Planning & HIV/AIDS Education	3
PHILO 01	Logic	3	PHYS 2	General College Physics 2	3 2			
PHYS 1	General College Physics 1	3 2	PSC 10.1	Politics & Governance w/ Philippine Constitution	3			
RS 20	Christology	3	NSTP 2	National Service Training Program	3			
NSTP 1	National Service Training Program	3	P.E. 4	Team Sports	2			
P.E. 3	Individual/Dual Sports	2			Sub Total 22 4			Sub Total 9
		Sub Total 23 4			Total 26			Total 9
		Total 27						

THIRD YEAR

FIRST SEMESTER			SECOND SEMESTER			SUMMER		
		Lec Lab			Lec Lab			
CHEM 4	Organic Chemistry 2	3 2	BIO 22.1	Microbiology (Lec)	3	Practicum Internship in Industries & Community (enrolled in 1st sem, 4 th year)		
CHEM 5	Biochemistry	3 2	BIO 22L	Microbiology (Lab)	1			
CHEM 7.1	Chemical Instrumentation I	2 1	CHEM 9	Physical Chemistry 1	3 2			
MATH 6	Mathematical Analysis II	5	CHEM 14.1	Chemical Instrumentation II	1 2			
RS 35	Church & Sacraments	3	CHEM 32.2	Seminar, Readings and Research in Chemistry	1			
			CHEM Elec	Chem 17/22/23/25.1/27.1/31/36	3			
			PHILO 30.1*	General and Special Ethics with PERSON Program	3			
		Sub Total 16 5			Sub Total 14 5			
		Total 21			Total 19			

* Philosophical Enrichment and Regeneration for Social Orientation and Networking Program

FOURTH YEAR

FIRST SEMESTER			SECOND SEMESTER		
		Lec Lab			Lec Lab
CHEM 11.1	Practicum Internship in Industries & Community	2	CHEM 12	Advanced Inorganic Chemistry	3
CHEM 13	Physical Chemistry 2	3 2	CHEM 16L	Senior's Research II	2
CHEM 16.1	Senior's Research I	1	CHEM Elec	Chem21.1/24/26.1/28/29.1/34/35/ IPRO 016	3
CHEM 20	Quantum Chemistry	3	Foreign Language	French/Spanish/German/Japanese/Chinese	3
RS 55	Christian Morality w/ Social Teachings of the Church	3	PHILO 25	Philosophy of Religion	3
		Sub Total 11 3			Sub Total 12 2
		Total 14			Total 14

ELECTIVES			ELECTIVES			ELECTIVES		
		Lec Lab			Lec Lab			Lec Lab
CHEM 17	Chemistry of Natural Products	3	CHEM 26.1	Advanced Analytical Chemistry	3	CHEM 31	Advanced Organic Chemistry	3
CHEM 21.1	Introduction to Computational Chemistry	2 1 (Computer Lab)				CHEM 34	Organic/Inorganic Synthesis	1 2
CHEM 22	Environmental Chemistry	3	CHEM 27.1	Food Chemistry	3	CHEM 35	Sustainable Development: Issues and Interventions	3
CHEM 23	Industrial Chemistry	3	CHEM 28	Descriptive Inorganic Chemistry	3	CHEM 36	Agricultural Chemistry	3
CHEM 24	Advanced Instrumentation	2 1	CHEM 29.1	Advanced Physical Chemistry: Kinetics	3	IPRO 016	Interprofessional Project- Lab	3
CHEM 25.1	Polymer Chemistry	3	CHEM 30	Advanced Biochemistry	3			