

Ateneo de Manila University
Loyola Schools

BACHELOR OF SCIENCE IN CHEMISTRY WITH APPLIED COMPUTER SYSTEMS
(Ver Sem 1, Ver Year 2011)

FIRST YEAR

First Semester Total Units: 22					Second Semester Total Units: 22				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CH 7	GENERAL CHEMISTRY I, LECTURE	3		M	CH 11	GENERAL CHEMISTRY II, LECTURE	3	CH 7, CH 8	M
CH 8	GENERAL CHEMISTRY I, LABORATORY	2		M	CH 12	GENERAL CHEMISTRY II, LABORATORY	2	CH 7, CH 8	M
EN 11	COMMUNICATION IN ENGLISH I	3		C	EN 12	COMMUNICATION IN ENGLISH II	3	EN 11	C
FIL 11	SINING NG PAKIKIPAGTALASTASAN SA FILIPINO I	3		C	FIL 12	SINING NG PAKIKIPAGTALASTASAN SA FILIPINO II	3	FIL 11	C
HI 16/HI 18	ASIAN / WESTERN HISTORY	3		CHIS	FLC	JSP/ CHN/ SP/ FR/ BH/ ITAL/ GR (choose one)	3		FLC1
INTAC 1	INTRODUCTION TO ATENEO CULTURE	0		C	INTAC 2	INTRODUCTION TO ATENEO CULTURE	0		C
LIT 13	INTRODUCTION TO FICTION	3		C	LIT 14	INTRODUCTION TO POETRY AND DRAMA	3		C
MA 18A	PRINCIPLES OF MODERN MATHEMATICS I	3		C	MA 18B	PRINCIPLES OF MODERN MATHEMATICS II	3	MA 18A	C
PE 1	PHYSICAL EDUCATION	2		PE1	PE 2	PHYSICAL EDUCATION	2		PE2

SECOND YEAR

Summer Total Units: 6				
Subject Code	Course Title	Units	Prerequisites	Category
CH 35	QUANTITATIVE ANALYSIS, LECTURE	3	CH 11, CH 12	M
CH 36	QUANTITATIVE ANALYSIS, LABORATORY	2	CH 11, CH 12	M
ECE 20	BASIC WORKSHOP PRACTICES	1		C

First Semester Total Units: 25					Second Semester Total Units: 24				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CH 25	ORGANIC CHEMISTRY I, LECTURE	3	CH 7, CH 8	M	CH 27	ORGANIC CHEMISTRY II, LECTURE	3	CH 25, CH 26	M
CH 26	ORGANIC CHEMISTRY I, LABORATORY	2	CH 7, CH 8	M	CH 28	ORGANIC CHEMISTRY II, LABORATORY	2	CH 25, CH 26	M
EC 102	BASIC ECONOMICS, AGRARIAN REFORM AND TAXATION	3		M	FIL 14	PANITIKAN NG PILIPINAS	3	FIL 12	C
MA 21	MATHEMATICAL ANALYSIS I	6	MA 18A, MA 18B	C	MA 22	MATHEMATICAL ANALYSIS II	3	MA 21	C
NSTP 1	NATIONAL SERVICE TRAINING PROGRAM	3		NP1	NSTP 2	NATIONAL SERVICE TRAINING PROGRAM	3	NSTP 1	NP2
PE 3	PHYSICAL EDUCATION	2		PE3	PE 4	PHYSICAL EDUCATION	2		PE4
PSY 101	GENERAL PSYCHOLOGY	3		C	PS 31.1	ELEMENTARY PHYSICS I, LABORATORY	2	MA 21	M
SA 21	INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY	3		C	PS 31	ELEMENTARY PHYSICS I, LECTURE	3	MA 21	M
					TH 121	AN INTRODUCTION TO DOING A CATHOLIC THEOLOGY	3		C

THIRD YEAR

Summer Total Units: 8				
Subject Code	Course Title	Units	Prerequisites	Category

POS 100	POLITICS AND GOVERNANCE	3		C
PS 32.1	ELEMENTARY PHYSICS II, LABORATORY	2	PS 31, PS 31.1	M
PS 32	ELEMENTARY PHYSICS II, LECTURE	3	PS 31, PS 31.1	M

First Semester Total Units: 16					Second Semester Total Units: 17				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CH 171	INTRODUCTION TO COMPUTERS AND DATA STRUCTURES I	3		M	CH 113	INORGANIC COMPOUNDS AND REACTIONS, LECTURE	3	CH 27	C
CH 41.5	MATHEMATICAL METHODS IN CHEMISTRY	3	MA 22	M	CH 174	DIGITAL ELECTRONICS AND CHEMICAL INSTRUMENTATION SYSTEMS	3	PS 32	M
CH 45	PHYSICAL CHEMISTRY I LECTURE	3	CH 27, CH 35, MA 22	M	CH 185.1	UNDERGRADUATE SEMINAR I	1	CH 27, CH 28	M
CH 46.1	PHYSICAL CHEMISTRY I, LABORATORY	1	CH 27, CH 35, MA 22	M	CH 47	PHYSICAL CHEMISTRY II LECTURE	3	CH 45, CH 46.1	M
FREE ELECTIVE	FREE ELECTIVE	3		FE1	CH 48.1	PHYSICAL CHEMISTRY II, LABORATORY	1	CH 45, CH 46.1	M
PH 101	PHILOSOPHY OF THE HUMAN PERSON I	3		C	PH 102	PHILOSOPHY OF THE HUMAN PERSON II	3	PH 101	C
					TH 131	MARRIAGE, FAMILY LIFE AND HUMAN SEXUALITY IN A CATHOLIC PERSPECTIVE	3	TH 121	C

FOURTH YEAR

Summer Total Units: 6				
Subject Code	Course Title	Units	Prerequisites	Category
CH 135	INSTRUMENTAL CHEMICAL ANALYSIS LECTURE	3	CH 47	M
CH 136	INSTRUMENTAL CHEMICAL ANALYSIS LABORATORY	2	CH 47, CH 48.1	M
CH 185.2	UNDERGRADUATE SEMINAR II	1	CH 27, CH 28	M

First Semester Total Units: 18					Second Semester Total Units: 14				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CH 147	PRINCIPLES OF QUANTUM CHEMISTRY, LECTURE	2	CH 47, CH 48.1	M	CH 189.2	SENIOR RESEARCH II	2	CH 47, CH 48.1	M
CH 148.1	PRINCIPLES OF QUANTUM CHEMISTRY, LABORATORY	1	CH 47, CH 48.1	M	FREE ELECTIVE	FREE ELECTIVE	3		FE2
CH 151	BIOCHEMISTRY LECTURE	3	CH 27, CH 27.5	M	HI 166	PHILIPPINE HISTORY	3	HI 165	M
CH 152.1	BIOCHEMISTRY LABORATORY I	1		M	PH 103/PH 104	PH 103 / PH 104	3	PH 102	CPH2
CH 189.1	SENIOR RESEARCH I	2	CH 47, CH 48.1	M	TH 141/TH 151	TH 141 / TH 151	3	TH 131	CTH2
HI 165	RIZAL AND THE EMERGENCE OF THE PHILIPPINE NATION	3		C					
PH 103/PH 104	PH 103 / PH 104	3	PH 102	CPH1					
TH 141/TH 151	TH 141 / TH 151	3	TH 131	CTH1					

FIFTH YEAR

Summer Total Units: 8				
Subject Code	Course Title	Units	Prerequisites	Category
CE 142	EMBEDDED SYSTEMS	3		M
CE 143	EMBEDDED SYSTEMS LABORATORY	2		M
CE 22	INTRODUCTION TO DATA STRUCTURES	3		M

First Semester
Total Units: 18

Subject Code	Course Title	Units	Prerequisites	Category
CE 101	TECHNIQUES IN SIGNAL PROCESSING	3		M
CE 150	COMPUTER INTERFACING	3		M
CE 190A	RESEARCH SEMINAR 1	3		M
CE 195.1	SPECIAL TOPICS: INNOVATION AND TECHNOLOGY	3		M
ELC 151	LINEAR AND CONTROL SYSTEMS	3		M
TCOM 141	DATA COMMUNICATIONS AND NETWORKING	3		M

Second Semester
Total Units: 15

Subject Code	Course Title	Units	Prerequisites	Category
CE 191A	RESEARCH SEMINAR II	3		M
CE ELECTIVE	~	3		RM4
CE ELECTIVE	~	3		RM3
CE ELECTIVE	~	3		RM2
CE ELECTIVE	~	3		RM1