

Ateneo de Manila University
Loyola Schools

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

FIRST YEAR

First Semester Total Units: 20					Second Semester Total Units: 21				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CE 21	INTRODUCTION TO COMPUTING	3		M	EN 12	COMMUNICATION IN ENGLISH II	3	EN 11	C
EN 11	COMMUNICATION IN ENGLISH I	3		C	FIL 12	SINING NG PAKIKIPAGTALASTASAN SA FILIPINO II	3	FIL 11	C
FIL 11	SINING NG PAKIKIPAGTALASTASAN SA FILIPINO I	3		C	INTAC 2	INTRODUCTION TO ATENEO CULTURE	0		C
INTAC 1	INTRODUCTION TO ATENEO CULTURE	0		C	LIT 14	INTRODUCTION TO POETRY AND DRAMA	3		C
LIT 13	INTRODUCTION TO FICTION	3		C	MA 21	MATHEMATICAL ANALYSIS I	6	MA 18A, MA 18B	M
MA 18A	PRINCIPLES OF MODERN MATHEMATICS I	3		C	PE 2	PHYSICAL EDUCATION	2		PE2
MA 18B	PRINCIPLES OF MODERN MATHEMATICS II	3		C	PS 51.1	PHYSICS I, LABORATORY	1	MA 18A, MA 18B	M
PE 1	PHYSICAL EDUCATION	2		PE1	PS 51	PHYSICS I, LECTURE	3	MA 18A, MA 18B	M

SECOND YEAR

Summer Total Units: 6				
Subject Code	Course Title	Units	Prerequisites	Category
FLC	JSP/ CHN/ SP/ FR/ BH/ ITAL/ GR (choose one)	3		FLC1
PSY 101	GENERAL PSYCHOLOGY	3		C

First Semester Total Units: 23					Second Semester Total Units: 23				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CH 7	GENERAL CHEMISTRY I, LECTURE	3	MA 18A	C	BI 15.1	GENERAL BIOLOGY, LABORATORY	2	CH 7, CH 8	C
CH 8	GENERAL CHEMISTRY I, LABORATORY	2	MA 18A	C	BI 15	GENERAL BIOLOGY, LECTURE	3	CH 7, CH 8	C
MA 22	MATHEMATICAL ANALYSIS II	3	MA 21	M	FIL 14	PANITIKAN NG PILIPINAS	3	FIL 12	C
NSTP 1	NATIONAL SERVICE TRAINING PROGRAM	3		NP1	NSTP 2	NATIONAL SERVICE TRAINING PROGRAM	3		NP2
PE 3	PHYSICAL EDUCATION	2		PE3	PE 4	PHYSICAL EDUCATION	2		PE4
PS 52.1	PHYSICS II, LABORATORY	1	PS 51, PS 51.1	M	PS 126	PHYSICAL MATHEMATICS I	3	MA 22	M
PS 52	PHYSICS II, LECTURE	3	PS 51, PS 51.1	M	PS 127	PHYSICAL MATHEMATICS II	3	MA 22	M
SA 21	INTRODUCTION TO SOCIOLOGY AND ANTHROPOLOGY	3		C	PS 53.1	PHYSICS III, LABORATORY	1	PS 52, PS 52.1	M
TH 121	AN INTRODUCTION TO DOING A CATHOLIC THEOLOGY	3		C	PS 53	PHYSICS III, LECTURE	3	PS 52, PS 52.1	M

THIRD YEAR

Summer Total Units: 7				
Subject Code	Course Title	Units	Prerequisites	Category
EC 102	BASIC ECONOMICS, AGRARIAN REFORM AND TAXATION	3		C
ECE 12	COMPUTER-AIDED DESIGN	1		M

First Semester Total Units: 19					Second Semester Total Units: 19				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CE 22	INTRODUCTION TO DATA STRUCTURES	3	CE 21	M	CE 30	ALGORITHMS AND PROBLEM SOLVING	3	CE 22, MA 21	M
PH 101	PHILOSOPHY OF THE HUMAN PERSON I	3		C	HI 165	RIZAL AND THE EMERGENCE OF THE PHILIPPINE NATION	3		C
PS 128	PHYSICAL MATHEMATICS III	3	MA 22	M	PH 102	PHILOSOPHY OF THE HUMAN PERSON II	3	PH 101	C
PS 129	PHYSICAL MATHEMATICS IV	3	MA 22	M	PS 101	CLASSICAL MECHANICS I	3	PS 127	M
PS 54.1	PHYSICS IV, LABORATORY	1	PS 53, PS 53.1	M	PS 146.1	PHYSICAL ELECTRONICS, LABORATORY	1	PS 53, PS 53.1	M
PS 54	PHYSICS IV, LECTURE	3	PS 53, PS 53.1	M	PS 146	PHYSICAL ELECTRONICS, LECTURE	3	PS 53, PS 53.1	M
TH 131	MARRIAGE, FAMILY LIFE AND HUMAN SEXUALITY IN A CATHOLIC PERSPECTIVE	3	TH 121	C	PS 171	ELECTROMAGNETICS	3	PS 126, PS 127, PS 129, PS 53, PS 53.1	M

FOURTH YEAR

Summer Total Units: 6				
Subject Code	Course Title	Units	Prerequisites	Category
HI 166	PHILIPPINE HISTORY	3	HI 165	C
POS 100	POLITICS AND GOVERNANCE	3		C

First Semester Total Units: 20					Second Semester Total Units: 19				
Subject Code	Course Title	Units	Prerequisites	Category	Subject Code	Course Title	Units	Prerequisites	Category
CE 195.1	SPECIAL TOPICS: INNOVATION AND TECHNOLOGY	3		M	ELC 111.1	SWITCHING THEORY AND DIGITAL DESIGN, LECTURE	3		M
PH 103/PH 104	PH 103 / PH 104	3	PH 102	CTH1	ELC 111.2	SWITCHING THEORY AND DIGITAL DESIGN, LABORATORY	1		M
PS 147.1	ADVANCED ELECTRONICS, LABORATORY	1		M	PH 103/PH 104	PH 103 / PH 104	3	PH 102	CPH2
PS 147	ADVANCED ELECTRONICS, LECTURE	3		M	PS 113	INTRODUCTORY THERMODYNAMICS AND STATISTICAL MECHANICS	3	PS 197	M
PS 172	ELECTROMAGNETIC ENERGY TRANSFER	3	PS 171	M	PS 130.1	COMPUTATIONAL PHYSICS, LABORATORY	1	PS 129, PS 54, PS 54.1	M
PS 197	INTRODUCTION TO QUANTUM MECHANICS I	3	PS 54	M	PS 130	COMPUTATIONAL PHYSICS, LECTURE	3	PS 129, PS 54, PS 54.1	M
PS 199.5	UNDERGRADUATE THESIS I	1		M	PS 199.6	UNDERGRADUATE THESIS II	2		M
TH 141/TH 151	TH 141 / TH 151	3	TH 131	CPH1	TH 141/TH 151	TH 141 / TH 151	3	TH 131	CTH2

FIFTH YEAR

Summer Total Units: 7				
Subject Code	Course Title	Units	Prerequisites	Category
CE 142	EMBEDDED SYSTEMS	3		M
CE 143	EMBEDDED SYSTEMS LABORATORY	2		M
PS 199.7	UNDERGRADUATE THESIS III	2		M

First Semester Total Units: 16					Second Semester Total Units: 12				
Subject	Course Title	Units	Prerequisites	Category	Subject	Course Title	Units	Prerequisites	Category

Code	Course Title	Units	Prerequisites	Category
CE 101	TECHNIQUES IN SIGNAL PROCESSING	3		M
CE 150	COMPUTER INTERFACING	3	ELC 111.1, ELC 111.2	M
CE 190A	RESEARCH SEMINAR 1	3		M
ELC 151.1	LINEAR AND CONTROL SYSTEMS, LECTURE	3		M
PS 199.8	UNDERGRADUATE THESIS IV	1		M
TCOM 141	DATA COMMUNICATIONS AND NETWORKING	3		M

Code	Course Title	Units	Prerequisites	Category
CE 191A	RESEARCH SEMINAR II	3		M
CE ELECTIVE	~	3		ME1
CE ELECTIVE	~	3		ME3
CE ELECTIVE	~	3		ME2