

COLLEGE OF ENGINEERING and ARCHITECTURE
Bachelor of Science in Computer Engineering
Curriculum Year **2012 - 2013**

First Year

First Semester

SUBJECT CODE	SUBJECT NAME/DESCRIPTION	HOURS		UNITS		Pre-Requisite
		LEC.	LAB.	LEC.	LAB.	
CHEM 111	GENERAL CHEMISTRY (LEC)	3.0	0.0	3.0	0.0	
CHEM 111L	GENERAL CHEMISTRY (LAB)	0.0	3.0	0.0	1.0	
DRAW 111A	ENGINEERING DRAWING 1	0.0	3.0	0.0	1.0	
ENG 11	COMMUNICATION ARTS 1	3.0	0.0	3.0	0.0	
FIL 11	KOMUNIKASYON SA AKADEMIKONG FILIPINO	3.0	0.0	3.0	0.0	
MTH 111A	COLLEGE ALGEBRA	3.0	0.0	3.0	0.0	
MTH 112	PLANE AND SPHERICAL TRIGONOMETRY	3.0	0.0	3.0	0.0	
PE 11	PHYSICAL FITNESS AND GYMNASTICS	2.0	0.0	2.0	0.0	
SOC 13	CONTEMPORARY SOCIAL PROBLEMS AND CURRENT ISSUES	3.0	0.0	3.0	0.0	
TOTAL		20	6	20.0	2.0	
TOTAL ACADEMIC UNIT(S): 22.0						

Second Semester

CSC 121A	COMPUTER FUNDAMENTALS	2.0	3.0	2.0	1.0	
ENG 12	COMMUNICATION ARTS 2	3.0	0.0	3.0	0.0	ENG 11
FIL 12	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	3.0	0.0	3.0	0.0	FIL 11
HUM 11	ART APPRECIATION	3.0	0.0	3.0	0.0	
MTH 121A	ADVANCED ALGEBRA	2.0	0.0	2.0	0.0	MTH 111A, MTH 112
MTH 122A	ANALYTIC GEOMETRY	3.0	0.0	3.0	0.0	
MTH 123	SOLID MENSURATION	2.0	0.0	2.0	0.0	MTH 112, MTH 111A
PE 12	RHYTHMIC ACTIVITIES	2.0	0.0	2.0	0.0	PE 11
PSC 12	PHILIPPINE GOVERNMENT AND NEW CONSTITUTION	3.0	0.0	3.0	0.0	
TOTAL		23	3	23.0	1.0	
TOTAL ACADEMIC UNIT(S): 24.0						

Second Year

First Semester

COE 211LA	COMPUTER HARDWARE AND FUNDAMENTALS	0.0	3.0	0.0	1.0	
CSC 211A	COMPUTER PROGRAMMING	2.0	3.0	2.0	1.0	
ENG 16	TECHNICAL WRITING	3.0	0.0	3.0	0.0	ENG 12
MTH 211A	DIFFERENTIAL CALCULUS	4.0	0.0	4.0	0.0	MTH 123
NSTP 11	NATIONAL SERVICE TRAINING PROGRAM 1	3.0	0.0	3.0	0.0	
PE 13	INDIVIDUAL AND DUAL SPORTS/GAMES	2.0	0.0	2.0	0.0	PE 12
PHI 13	LOGIC	3.0	0.0	3.0	0.0	
PHY 211	COLLEGE PHYSICS 1	3.0	0.0	3.0	0.0	MTH 112, MTH 123
PHY 211L	COLLEGE PHYSICS 1 (LABORATORY)	0.0	3.0	0.0	1.0	MTH 112
TOTAL		20	9	20.0	3.0	
TOTAL ACADEMIC UNIT(S): 23.0						

Second Semester

COE 221LA	COMPUTER ENGINEERING DRAFTING AND DESIGN	2.0	3.0	2.0	1.0	
CSC 221A	COMPUTER AIDED-DRAFTING	1.0	3.0	1.0	1.0	
HST 11	PHILIPPINE HISTORY	3.0	0.0	3.0	0.0	
MTH 221A	INTEGRAL CALCULUS	4.0	0.0	4.0	0.0	
MTH 222A	PROBABILITY AND STATISTICS	3.0	0.0	3.0	0.0	2nd Yr
NSTP 12	NATIONAL SERVICE TRAINING PROGRAM 2	3.0	0.0	3.0	0.0	NSTP 11
PE 14	TEAM SPORTS	2.0	0.0	2.0	0.0	PE 13
PHY 221	COLLEGE PHYSICS 2	3.0	0.0	3.0	0.0	PHY 211
PHY 221L	COLLEGE PHYSICS 2 (LABORATORY)	0.0	3.0	0.0	1.0	PHY 211L
TOTAL		21	9	21.0	3.0	
TOTAL ACADEMIC UNIT(S): 24.0						

Third Year

First Semester

COE 31	DATA STRUCTURE AND ALGORITHMS ANALYSIS	3.0	0.0	3.0	0.0	
COE 312A	SAFETY MANAGEMENT 1	1.0	0.0	1.0	0.0	
COE 31L	DATA STRUCTURE AND ALGORITHMS ANALYSIS LABORATORY	0.0	3.0	0.0	1.0	
ECE 311	ELECTRONIC CIRCUITS AND DEVICES	3.0	0.0	3.0	0.0	PHY 221

ECE 311L	ELECTRONIC CIRCUITS AND DEVICES LABORATORY	0.0	3.0	0.0	1.0	PHY 221L
ECO 311	ENGINEERING ECONOMY	3.0	0.0	3.0	0.0	3rd Yr
EE 311	ELECTRICAL CIRCUITS 1	3.0	0.0	3.0	0.0	PHY 211
EE 311L	ELECTRICAL CIRCUITS I LABORATORY	0.0	3.0	0.0	1.0	PHY 211L
MECH 311A	STATIC OF RIGID BODIES	3.0	0.0	3.0	0.0	PHY 211
MTH 311	DIFFERENTIAL EQUATIONS	3.0	0.0	3.0	0.0	MTH 221A
TOTAL		19	9	19.0	3.0	

TOTAL ACADEMIC UNIT(S): 22.0

Second Semester

ECE 321	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN	3.0	0.0	3.0	0.0	
ECE 321L	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN LABORATORY	0.0	3.0	0.0	1.0	
EE 321	ELECTRICAL CIRCUITS 2	3.0	0.0	3.0	0.0	EE 311
EE 321L	ELECTRICAL CIRCUITS 2 LABORATORY	0.0	3.0	0.0	1.0	EE 311L
ENG 22	SPEECH AND ORAL COMMUNICATION	3.0	0.0	3.0	0.0	ENG 16
MECH 321A	DYNAMICS OF RIGID BODIES	2.0	0.0	2.0	0.0	
MECH 322	MECHANICS OF DEFORMABLE BODIES	3.0	0.0	3.0	0.0	
MTH 321A	ADVANCED ENGINEERING MATHEMATICS	3.0	0.0	3.0	0.0	
PSY 11	GENERAL PSYCHOLOGY WITH DRUG EDUCATION	3.0	0.0	3.0	0.0	
TOTAL		20	6	20.0	2.0	

TOTAL ACADEMIC UNIT(S): 22.0

Fourth Year

First Semester

COE 411	SYSTEM ANALYSIS AND DESIGN	2.0	0.0	2.0	0.0	
COE 411L	SYSTEM ANALYSIS AND DESIGN LABORATORY	0.0	3.0	0.0	1.0	
ECE 412	PRINCIPLES OF COMMUNICATIONS	3.0	0.0	3.0	0.0	EE 321
ENG 15	PHILIPPINE LITERATURE	3.0	0.0	3.0	0.0	
ENGG 410	SAFETY MANAGEMENT 2	1.0	0.0	1.0	0.0	
MGT 415	ENGINEERING MANAGEMENT	3.0	0.0	3.0	0.0	ECO 311
MTH 412	DISCRETE MATHEMATICS	3.0	0.0	3.0	0.0	MTH 311
SOC 14	LIFE AND WORKS OF RIZAL	3.0	0.0	3.0	0.0	
TOTAL		18	3	18.0	1.0	

TOTAL ACADEMIC UNIT(S): 19.0

Second Semester

COE 421	COMPUTER SYSTEMS ARCHITECTURE	3.0	0.0	3.0	0.0	
COE 421L	COMPUTER SYSTEMS ARCHITECTURE LABORATORY	0.0	3.0	0.0	1.0	
COE 422	CONTROL SYSTEMS	3.0	0.0	3.0	0.0	
COE 423	DIGITAL SIGNAL PROCESSING	3.0	0.0	3.0	0.0	
COE 423L	DIGITAL SIGNAL PROCESSING LABORATORY	0.0	3.0	0.0	1.0	
COE 424	OBJECT ORIENTED PROGRAMMING	2.0	0.0	2.0	0.0	
COE 424L	OBJECT ORIENTED PROGRAMMING LABORATORY	0.0	3.0	0.0	1.0	
COE EL 1	IC FABRICATION	3.0	0.0	3.0	0.0	
ECE 421	LOGIC CIRCUIT AND SWITCHING THEORY	3.0	0.0	3.0	0.0	
ECE 421 (LAB)	LOGIC CIRCUIT AND SWITCHING THEORY LABORATORY	0.0	3.0	0.0	1.0	
ENGG 2	ENVIRONMENTAL ENGINEERING	2.0	0.0	2.0	0.0	
TOTAL		19	12	19.0	4.0	

TOTAL ACADEMIC UNIT(S): 23.0

Fifth Year

First Semester

COE 51	ADVANCED LOGIC CIRCUIT	3.0	0.0	3.0	0.0	
COE 516	MICROPROCESSOR SYSTEMS	3.0	0.0	3.0	0.0	
COE 516L	MICROPROCESSOR SYSTEMS LABORATORY	0.0	3.0	0.0	1.0	
CoE 52	COMPUTER SYSTEM ORG. W/ ASSEMBLY LANGUAGE	3.0	0.0	3.0	0.0	
COE 52L	COMPUTER SYSTEM ORG. W/ ASSEMBLY LANGUAGE LABORATORY	0.0	3.0	0.0	1.0	
CoE 53	SOFTWARE ENGINEERING	3.0	0.0	3.0	0.0	5th Yr
CoE 54	OPERATING SYSTEMS	3.0	0.0	3.0	0.0	
COE 54L	OPERATING SYSTEMS LABORATORY	0.0	3.0	0.0	1.0	
COE 55A	DESIGN PROJECT 1 (METHODS OF RESEARCH)	2.0	0.0	2.0	0.0	
COE EL 2	MICROELECTRONICS	3.0	0.0	3.0	0.0	
TOTAL		20	9	20.0	3.0	

TOTAL ACADEMIC UNIT(S): 23.0

Second Semester

CoE 55	COMPUTER NETWORKS	3.0	0.0	3.0	0.0	
CoE 55L	COMPUTER NETWORKS LABORATORY	0.0	3.0	0.0	1.0	
COE 56A	DESIGN PROJECT 2 (PROJECT IMPLEMENTATION)	0.0	6.0	0.0	2.0	

COE 57	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	3.0	0.0	3.0	0.0	5th Yr
COE 58	ENTREPRENEURSHIP	3.0	0.0	3.0	0.0	
COE 59	COMPUTER ENGINEERING AND ETHICS	2.0	0.0	2.0	0.0	5th Yr
CoE 60	FIELDTRIPS AND SEMINARS	0.0	3.0	0.0	1.0	5th Yr
CoE 62	ON-THE-JOB TRAINING	3.0	0.0	3.0	0.0	5th Yr
COE EL 3	TEST AND QUALITY ASSURANCE	3.0	0.0	3.0	0.0	
ECE 526	DATA COMMUNICATIONS	3.0	0.0	3.0	0.0	
TOTAL		20	12	20.0	4.0	

TOTAL ACADEMIC UNIT(S): 24.0

Total academic units for course Bachelor of Science in Computer Engineering: 226.0, Lecture Unit = 200.0, Lab Unit=26.0