



BACHELOR OF SCIENCE IN COMPUTER ENGINEERING
EFFECTIVE SCHOOL YEAR 2009-2010

FIRST YEAR					
1 st Semester			2 nd Semester		
Subject Code & Title	Units	Pre-requisites	Subject Code & Title	Units	Pre-requisites
*Math 11 - College Algebra I	3-0-3		*Math 12 - College Algebra II	2-0-2	Math 11
*Math 13 - Plane and Spherical Trigonometry	3-0-3		*Math 14 - Analytic Geometry and Differential Calculus	6-0-6	Math 11, Math 13
*Draw 11 - Engineering Drawing	0-6-2		*Math 16 - Solid Mensuration	2-0-2	Math 11, Math 13
Rel 11 - Old Testament	3-0-3		*Draw 12 - Computer Aided Drafting	0-3-1	Draw 11
*BC 11 - Basic Comm. Skills: English for Acad. Purpose	3-0-3		*BC 12 - Basic Comm. Skills: Reading to Writing Paragraphs & Essays	3-0-3	BC 11
Fil 13 - Sining ng Pakikipagtalastasan	3-0-3		*Phys 45 - General Physics I	3-3-4	Math 11, Math 13
Speech 11 - Effective Oral Communication	3-0-3		Rel 22 - New Testament	3-0-3	Rel 11
PEP 1 - Personality Enhancement Program	(1)		PEP 2 - Personality Enhancement Program	(1)	PEP 1
PE 11 - Physical Education I	2		PE 12 - Physical Education II	2	PE 11
NSTP 1 - National Service Training Program I	3		NSTP 2 - National Service Training Program II	3	NSTP 1
Load (units)	25		Load (units)	26	
SECOND YEAR					
1 st Semester			2 nd Semester		
Subject Code & Title	Units	Pre-requisites	Subject Code & Title	Units	Pre-requisites
*Math 21 - Integral Calculus	4-0-4	Math 14, Math 16	*Math 22 - Differential Equations	3-0-3	Math 21
*ES 23 - Engineering Mechanics I: Statics	2-3-3	Phys 45, Math 14	*ES 24 - Engineering Mechanics II: Dynamics	2-3-3	ES 23, Math 21
*CpE 21 - Computer Hardware Fundamentals	0-3-1	-	*CpE 22R - Computer Fundamentals & Programming	0-6-2	CpE 21
*ES 11 - Elementary Surveying	0-3-1	Math 13	*EE 22 - Electrical Circuits I	3-3-4	Phys 46, Math 21
*Phys 46 - General Physics II	3-3-4	Phys 45	Rel 61 - Christian Ethics	3-0-3	Rel 22
Chem 11 - General Chemistry I	3-6-5	-	Phil 24 - Panitikang Pilipino	3-0-3	Phil 13
Hist 31 - Phil. History & Gov't w/ the New Cons	3-0-3	-	Chem 12 - General Chemistry II	3-6-5	Chem 11
PE 21 - Physical Education III	2	PE 11	PE 22 - Physical Education IV	2	PE 11
Load (units)	23		Load (units)	25	
THIRD YEAR					
1 st Semester			2 nd Semester		
Subject Code & Title	Units	Pre-requisites	Subject Code & Title	Units	Pre-requisites
BC 26 - Technical Report Writing	3-0-3	BC 12	Philo 31 - Introduction to Logic	3-0-3	-
Psych 11 - General Psychology	3-0-3	-	*Math 32R - Probability and Statistics	3-0-3	Math 21
*Math 31 - Advanced Engineering Math for CpE	3-0-3	Math 22	*EE 31 - Electrical Circuits II	3-3-4	EE 22, Math 22
*Math 34R - Numerical Methods	3-0-3	Math 22, CpE 22	*EE 41CpE - Electronic Circuits and Devices	3-3-4	EE 22
*Math 35 - Discrete Mathematics	3-0-3	Math 12	*CpE 32 - Object-Oriented Programming	2-3-3	CpE 31
*ES 33** - Mechanics of Deformable Bodies	2-3-3	ES 24, Math 22	*CpE 34 - Comp. Systems Org. w/ Assembly Language	3-3-4	CpE 31
*CpE 31 - Data Structures & Algorithms Analysis	3-3-4	CpE 22	*CpE 36 - Computer Engineering Drafting and Design	0-3-1	Draw 12, 3 rd yr standing
FA 51 - Arts and Music Appreciation	3-0-3		Load (units)	22	
FOURTH YEAR					
1 st Semester			2 nd Semester		
Subject Code & Title	Units	Pre-requisites	Subject Code & Title	Units	Pre-requisites
Socio 63R - Current Issues & Contemporary Nat'l Dev't	3-0-3	-	Pol. Sci. 11 - Taxation and Land Reform	3-0-3	-
Hist 41 - Rizal's Life & Works	3-0-3	-	*ES 40R - Engineering Management	3-0-3	4 th year standing
*EE 42CpE - Electronic Circuits Analysis and Design	3-3-4	EE 41	*CpE 40 - Principles of Communications	3-0-3	EE 31, EE 42
*ESCp 43 - Environmental Eng'g & Safety Mgt.	3-0-3	Chem 11, 4 th yr standing	*CpE 42 - Control Systems	3-3-4	EE 31, EE 42
*CpE 45 - Shop Technology for CpE	1-3-2	EE 41, CpE 36	*CpE 44 - Advanced Logic Circuits Design	3-3-4	CpE 43
*CpE 43 - Logic Circuits & Switching Theory	3-3-4	EE 41	*CpE 46 - Microprocessor Systems	3-3-4	CpE 34, CpE 43
*CpE 47 - System Analysis and Design	2-3-3	CpE 32	*CpE 48 - Operating Systems	3-3-4	CpE 34
Load (units)	22		Load (units)	25	
SUMMER					
CpE 400 - On-The-Job Training	0 - 0 - 3		At least 240 hours		EE 42, CpE 42, CpE 44, CpE 46
FIFTH YEAR					
1 st Semester			2 nd Semester		
Subject Code & Title	Units	Pre-requisites	Subject Code & Title	Units	Pre-requisites
*CpE 50 - Software Engineering	2-3-3	CpE 48	*ES 50R - Engineering Economics and Accounting	3-0-3	5 th yr standing
*CpE 51 - Instrumentation & Control (Elective)	2-3-3	CpE 42	*CpE 52 - Engineering Laws, Contracts and Ethics	2-0-2	5 th yr standing
*CpE 53 - Data Communication	3-0-3	CpE 40, 5 th yr standing	*CpE 54 - Computer Networks	3-3-4	CpE 53
*CpE 57 - Computer System Architecture	3-3-4	CpE 31, CpE 44	*CpE 56 - Compiler Theory & Structure	3-3-4	CpE 42, CpE 50
*CpE 59 - Projects I	1-3-2	CpE 44, 5 th yr standing	*CpE 60 - Projects II	0-6-2	CpE 59
*CpE 71 - Digital Signal Processing	3-3-4	Math 31	*CpE 72 - Management Information System (Elective)	3-0-3	CpE 47
*CpE 73 - Database Mgt System (Elective)	3-0-3	CpE 48	*CpE 74 - Seminars & Field Trips	0-3-1	5 th yr standing
Load (units)	22		*CpE 76 - Entrepreneurship	3-0-3	5 th yr standing
Load (units)			Load (units)	22	

ESCp 43, though considered basic engineering, is discipline-specific when it comes to emphasis.

TOTAL CREDIT UNITS: 240

NOTE:

* Needs to have at least a satisfactory grade of 2.0 before a student is considered to have passed the subject.