

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (BSCPE)**FIRST YEAR**First Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
ENGL 100	Communication Arts	3	-
MATH 100E	College Mathematics	3	-
MATH 100E	Mathematics in the Modern World	3	-
BES 101	Engineering Drawing	1	-
EMATH 111	Calculus 1	3	PRE CALCULUS
CHEM 111	Chemistry for Engineers	4	GENERAL CHEMISTRY
CPE 111	Computer Engineering as a Discipline	1	-
CPE 112	Programming Logic and Design 1	3	-
PE 101	Movement Enhancement	2	-
NSTP 101	National Service Training Program 1	3	-
	TOTAL	26	

Second Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
ENGL 101	Purposive Communication	3	-
SOCIO 101	The Contemporary World	3	-
SOCIO 101	Gender and Society	3	-
EMATH 121	Calculus 2	3	EMATH 111
PHYS 121	Physics for Engineers	4	General Physics EMATH 111
STS 101	Science, Technology and Society	3	-
BES 102A	Computer Aided Drafting	1	BES 101
CPE 121	Programming Logic and Design 2	3	CPE 112
PE 102	Fitness Exercises	2	PE 101
NSTP 102	National Service Training Program 2	3	NSTP 101
	TOTAL	28	

SECOND YEAR

First Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
ST 101	Living in the IT Era	3	-
EMATH 211	Differential Equations	3	EMATH 121
HIST 101	Readings in the Philippine History	3	-
PHILO 101	Ethics	3	-
LIT 101	Literatures of the World	3	-
BES 104	Engineering Economics	3	-
EE 211A	Fundamentals of Electrical Circuits	4	EMATH 121 PHYS 121
CPE 211	Object Oriented Programming	2	CPE 121
CPE 212	Cisco Certified Network Associate 1	3	STS 101
PE 103	Physical Activity Towards Health and Fitness 1	2	PE 102
	TOTAL	29	

Second Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
EMATH 122	Engineering Data Analysis	3	EMATH 111
EMATH 221	Numerical Methods	4	EMATH 211
HUM 101	Art Appreciation	3	-
PSYCH 101	Understanding Self	3	-
RIZAL 101	Life and Works of Dr. Jose Rizal	3	-
ECE 212B	Fundamentals of Electronic Circuits	4	EE 211A
CPE 221	Data Structures and Algorithms	2	CPE 211
CPE 222	Cisco Certified Network Associate 2	3	CPE 212
PE 104	Physical Activity Towards Health and Fitness II	2	PE 103
	TOTAL	27	

THIRD YEAR

First Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
EMATH 124	Discrete Mathematics	3	EMATH 111
CPE 311	Logic Circuits and Design	4	ECE 212B
CPE 312	Operating Systems	4	CPE 211
CPE 313	Cisco Certified Network Associate 3	3	CPE 222
CPE 314	Software Design	4	CPE 221
CPE 315	Computer Engineering Drafting and Design	1	ECE 212B
CPE 316	Data and Digital Communications	3	ECE 212B CPE 212
	TOTAL	22	

Second Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
BES 105	Basic Occupational Safety and Health	3	CPE 314
TECHNO 101	Technopreneurship	3	ENGL 101 BES 104
ECE 323A	Feedback and Control Systems	3	EMATH 221 EE 211A
RES 101	Methods of Research	3	EMATH 122 ENGL 101 CPE 311
CPE 320	Introduction to HDL	1	CPE 121, ECE 212B
CPE 321	Fundamentals of Mixed Signals and Sensors	3	ECE 212B
CPE 322	Microprocessors	4	CPE 311
CPE 323	Cisco Certified Network Associate 4	3	CPE 313
CPE FR EL 1	Cognate / Elective 1	3	CPE 314
	TOTAL	26	

FOURTH YEARFirst Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
CPE 411	Embedded Systems	4	CPE 322
CPE 412	Computer Architecture and Organization	4	CPE 322
CPE 413	CpE Practice and Design 1	1	CPE 322, RES 101
CPE 414	Computer Networks and Security	4	CPE 323
CPE 415	Digital Signal Processing	4	ECE 323A
CPE EC 1	Enhancement Course 1	1	CPE FR EL 1
CPE FR EL 2	Cognate / Elective 2	3	CPE FR EL 1
	TOTAL	21	

Second Semester

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
BES 106	Environmental Science and Engineering	3	CHEM 111
BES 107	Engineering Management	3	BES 104
CPE 421	CpE Practice and Design 2	2	CPE 413
CPE 422	Emerging Technologies in CpE	3	ST 101, CPE 331
CPE 423	Seminars and Fieldtrips	1	CPE 331
CPE 424	CpE Laws and Professional Practice	3	CPE 413
CPE EC 2	Enhancement Course 2	1	CPE FR EL 2
CPE FR EL 3	Cognitive / Elective 3	3	CPE FR EL 2
	TOTAL	19	

SUMMER CLASS

THIRD YEAR

Course Code	Descriptive Title	Units	Pre-requisite / Remarks
CPE 331	On The Job Training	4	CPE 322, BES 105
	TOTAL	4	