

BACHELOR OF SCIENCE IN COMPUTER ENGINEERING (B.S. CPE)

(Curriculum applicable to students who entered as freshmen beginning school year 2014-2015)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0		
1	1	CHM021L	GENERAL CHEMISTRY 1 LABORATORY	-	3.0	1.0		CHM021
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0		
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0		
1	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0		
1	1	MATH011	ALGEBRA	4.5	-	3.0		
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING	3.0	-	(3.0)		
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	3.0	(2.0)		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
Total				21	9	13		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	
1	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021, , CHM021L	CHM022
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	
1	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	
1	2	MATH011-2	ADVANCED ALGEBRA	3	-	2.0	MATH011	
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4	3.0	(3.0)	NSTP010	
1	2	PE012	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	3.0	(2.0)	PE011	
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
Total				25	12	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	
1	3	CHM023L	GENERAL CHEMISTRY 3 LABORATORY	-	3.0	1.0	CHM022, , CHM022L	CHM023
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	
1	3	MATH014	SOLID MENSURATION	3	-	2.0	MATH012	
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)		
Total				19.5	9	15		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0		
2	1	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0		
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, , MATH021	
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
2	1	SS017	SOCIETY,CULTURE AND FAMILY LIFE	4.5	-	3.0		
Total				19.5	6	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	
2	2	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	
2	2	PE014	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	PE013	
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, , PHY021	
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022, , PHY021, , PHY021L	PHY022
2	2	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
Total				19.5	9	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0		
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, , PHY022L	PHY023
2	3	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0		
2	3	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0		
Total				18	6	14		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	4	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0		
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, , PHY022	
Total				9		6		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	CPE111L	COMPUTER HARDWARE FUNDAMENTALS (LAB)	-	4.5	1.0	CS002P, , PHY023, , PHY023L	
3	1	CPE121L	COMPUTER ENGINEERING DRAFTING AND DESIGN (LAB)	-	4.5	1.0	3rd Year Standing	
3	1	EE101	CIRCUITS 1	4.5	-	3.0	MATH025, , PHY023	
3	1	EE101L	CIRCUITS 1 (LAB)	-	4.5	1.0	MATH025, , PHY023, , PHY023L	EE101
3	1	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	
3	1	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing	
Total				18	13.5	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	2	BEC198-1	BASIC ENGINEERING CORRELATION 1	-	3.0	(1.0)	CHM023, PHY023	
3	2	CS106	DATA STRUCTURES AND ALGORITHM ANALYSIS	4.5	-	3.0	CS002P	
3	2	CS106L	DATA STRUCTURES AND ALGORITHM ANALYSIS (LAB)	-	4.5	1.0	CS002P	CS106
3	2	ECE101	ELECTRONIC DEVICES AND CIRCUITS	4.5	-	3.0	EE101	
3	2	ECE101L	ELECTRONIC DEVICES AND CIRCUITS (LAB)	-	4.5	1.0	EE101, EE101L	ECE101
3	2	EE102	CIRCUITS 2	4.5	-	3.0	EE101	
3	2	EE102L	CIRCUITS 2 (LAB)	-	4.5	1.0	EE101, EE101L	EE102
3	2	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	
Total				18	16.5	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198-2	BASIC ENGINEERING CORRELATION 2	-	3.0	(1.0)	MATH115	
3	3	CPE101	LOGIC CIRCUITS AND SWITCHING THEORY	4.5	-	3.0	ECE101	
3	3	CPE101L	LOGIC CIRCUITS AND SWITCHING THEORY (LAB)	-	4.5	1.0	ECE101, , ECE101L	CPE101
3	3	CPE131	COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING	4.5	-	3.0	CS106	
3	3	CPE131L	COMPUTER SYSTEMS ORGANIZATION WITH ASSEMBLY LANGUAGE PROGRAMMING (LAB)	-	4.5	1.0	CS106	
3	3	ECE102	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN	4.5	-	3.0	ECE101	
3	3	ECE102L	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN (LAB)	-	4.5	1.0	ECE101, , ECE101L	ECE102
3	3	IT111P	OOP 1 - CONCEPTS IN OBJECT ORIENTED PROGRAMMING (PAIRED)	3.0	4.5	3.0	CS106	
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
Total				18	21	15		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CPE102P	ADVANCED LOGIC CIRCUITS AND SWITCHING THEORY (PAIRED)	4.5	4.5	4	CPE101	
4	1	ECE131	FEEDBACK AND CONTROL SYSTEMS	4.5	-	3.0		
4	1	ECE131L	FEEDBACK AND CONTROL SYSTEMS (LAB)	-	4.5	1.0		
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3	1.0	ENG023	
4	1	IT112P	OOP 2 - PROGRAMMING USING WINDOWS FORMS (PAIRED)	3.0	4.5	3.0	IT111P	
4	1	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
Total				16.5	16.5	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101	
4	2	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101, , CPE101L	CPE103
4	2	CPE132	COMPUTER SYSTEM ARCHITECTURE	4.5	-	3.0	CPE131	
4	2	CPE132L	COMPUTER SYSTEM ARCHITECTURE (LAB)	-	4.5	1.0	CPE131, , CPE131L	CPE132
4	2	ECE151P-1	CCNA 1 – NETWORKING BASICS	3.0	4.5	3.0		
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
Total				16.5	16.5	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CPEELEC01P	CPE ELECTIVE 1 (PAIRED)	*	*	3.0		
4	3	CPE198	CPE CORRELATION 1	-	3.0	(1.0)	CPE102P, , CPE103, , CPE132, , ECE131, , MATH140	
4	3	ECE141	COMMUNICATIONS 1	4.5	-	3.0	ECE102, , MATH115	
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	3	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	
4	3	MGT110	ENTREPRENEURSHIP AND MANAGEMENT	4.5	-	3.0	5th Year Standing	
4	3	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0		
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE011	
Total				16.5+	9.0+	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	CPE199R	CPE PRACTICUM	-	20	3.0		
Total					20	3		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	CPE151	OPERATING SYSTEMS	4.5	-	3.0	CPE131	
5	1	CPE151L	OPERATING SYSTEMS (LAB)	-	4.5	1.0	CPE131, , CPE131L	CPE151
5	1	CPE200D-3	CPE CAPSTONE PROJECT 1 (DESIGN)	-	3.0	1.0	RES101P	
5	1	CPEELEC02P	CPE ELECTIVE 2 (PAIRED)	*	*	3.0	*	
5	1	CS103P	SYSTEM ANALYSIS AND DESIGN (PAIRED)	3.0	4.5	3.0	CS106, IT111P	
5	1	CS150	SOFTWARE ENGINEERING	4.5	-	3.0	CS106	
Total				12.0 +	12.0 +	14		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	CPE191F	CPE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing	
5	2	CPE200D-4	CPE CAPSTONE PROJECT 2 (DESIGN)	-	3.0	1.0	CPE200D-3	
5	2	CPEELEC03P	CPE ELECTIVE 3 (PAIRED)	*	*	3.0	*	
5	2	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	ECE120L, , MATH110, , MATH115	
5	2	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE120L, , MATH110, , MATH115	ECE121
5	2	EECO101	ENGINEERING ECONOMY	4.5	-	3.0		
5	2	IT130-1	DATA COMMUNICATIONS AND INTRODUCTION TO NETWORK TECHNOLOGIES	4.5	-	3.0	ECE141	
Total				13.5 +	12.0+	15		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	3	CPE181	ENGINEERING ETHICS AND COMPUTER LAWS	3.0	-	2.0	5th Year Standing	
5	3	CPE198-1	CPE CORRELATION 2	-	3.0	(1.0)	CPE151, CS103P, CS150, ECE121, EECO101, IT130-1 , MATH160	
5	3	CPE200D-5	CPE CAPSTONE PROJECT 3 (DESIGN)	-	3.0	1.0	CPE200D-4	
5	3	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, , CHM023L	
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0		
5	3	IT131	COMPUTER NETWORKS	4.5	-	3.0	IT130-1	
5	3	IT131L	COMPUTER NETWORKS (LAB)	-	4.5	1.0	IT130-1	IT131
Total				15	10.5	12		

Total Academic Units : 227.00

* SEE TABLE OF SPECS FOR ELECTIVES

ADD LECTURE AND LABORATORY HOURS OF CHOSEN ELECTIVE COURSES AS REFLECTED IN THE TABLE OF SPECS

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FOR BATCH 2014

ELECTIVE TYPE : CPE FREE ELECTIVES 2013 (9)

REQUIRED UNITS: 9.0

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		CPE161P-1	EMBEDDED SYSTEMS DESIGN AND PROGRAMMING	3.0	3.0	3.0	CPE103, CPE103L	
		CPE161P-2	FIELD-PROGRAMMABLE GATE ARRAY(FPGA) DESIGN AND PROGRAMMING	3.0	3.0	3.0	CPE101, CPE101L	
		CPE161P-4	SPECIAL TOPICS IN COMPUTER ENGINEERING	3.0	3.0	3.0	CPE103, CPE103L, IT112P	
		ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	3.0	ECE131, ECE131L	
		ECE151P-2	CCNA 2 - ROUTERS AND ROUTING BASICS	3.0	4.5	3.0	ECE151P-1	
		ECE151P-3	CCNA 3 - SWITCHING BASICS AND INTERMEDIATE ROUTING	3.0	4.5	3.0	ECE151P-2	
		ECE151P-4	CCNA 4 - WAN TECHNOLOGIES	3.0	4.5	3.0	ECE151P-3	