

Bachelor of Science in Computer Engineering

(Curriculum applicable to students who entered as freshmen beginning school year 2012-2013)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CWTS011	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	-	3.0	(2.0)		
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	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0		
1	1	MATH011	ALGEBRA	4.5	-	3.0		
1	1	PE021	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	2.5	(1.5)		
1	1	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
1	1	VE011	VALUES EDUCATION 1	1.5	-	(1.0)		
Total				19.5	8.5	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	CWTS012	CIVIC WELFARE TRAINING COURSE - 1	-	3.0	(2.0)	CWTS011	
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	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011	
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	
1	2	PE022	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	2.5	(1.5)		
1	2	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0		
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	
Total				22.5	8.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	CWTS013	CIVIC WELFARE TRAINING COURSE - 2	-	3.0	(2.0)	CWTS012	
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	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0		
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE023	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)		
Total				21.0	8.5	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0		
2	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0		CHM021
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0		
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013,, MATH021	
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023	
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				18.0	11.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	
2	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021,, CHM021L	CHM022
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)		
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	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0		
Total				18.0	11.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	
2	3	CHM023L	GENERAL CHMISTRY 3 (LAB)	-	3.0	1.0	CHM022,, CHM022L	CHM023
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0		
2	3	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0		
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	
2	3	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025	
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022,, PHY022L	PHY023
Total				16.5	11.5	14.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0		
2	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0		CHM021
2	1	CS001P	COMPUTER FUNDAMENTALS & PROGRAMMING 1 (PAIRED)	1.5	3.0	2.0		
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013,, MATH021	
2	1	PE024	PHYSICAL EDUCATION 4: ADVANCED INDIVIDUAL/DUAL SPORTS	-	2.5	(1.5)	PE023	
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				18.0	11.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	
2	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021,, CHM021L	CHM022
2	2	CS002P	COMPUTER FUNDAMENTALS & PROGRAMMING 2 (PAIRED)	1.5	3.0	2.0	CS001P	
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	
2	2	PE025	PHYSICAL EDUCATION 5: TEAM SPORTS	-	2.5	(1.5)		
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	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0		
Total				18.0	11.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	
2	3	CHM023L	GENERAL CHEMISTRY 3 (LAB)	-	3.0	1.0	CHM022,, CHM022L	CHM023
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0		
2	3	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0		
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	
2	3	PE026	PHYSICAL EDUCATION 6: ADVANCED TEAM SPORTS	-	2.5	(1.5)	PE025	
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022	
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022,, PHY022L	PHY023
Total				16.5	11.5	14.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	3	BEC198	BASIC ENGINEERING CORRELATION	-	3.0	(1.0)	CHM023, , MATH115, , PHY023	
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				18.0	21.0	15.0		

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	4.0	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	-	3.0	1.0	ENG023	
4	1	IT112P	OOP 2 - PROGRAMMING USING WINDOWS FORMS (PAIRED)	3.0	4.5	3.0		
4	1	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0		
Total				13.5	19.5	14.0		

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	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
4	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
Total				18.0	12.0	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CPE104P	MEMORY AND INPUT/OUTPUT SYSTEMS (PAIRED)	3.0	4.5	3.0	CPE103	
4	3	CPE151	OPERATING SYSTEMS	4.5	-	3.0	CPE131	
4	3	CPE151L	OPERATING SYSTEMS (LAB)	-	4.5	1.0	CPE131,, CPE131L	CPE151
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	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	
Total				18.0	15.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	CPE199R	CPE PRACTICUM	-	20.0	3.0		
Total				0.0	20.0	3.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	CPE200D-3	CPE CAPSTONE PROJECT 1 (DESIGN)	-	3.0	1.0	RES101P	
5	1		CPE ELECTIVE 1 (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	
5	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023,, CHM023L	
5	1	MGT110	ENTREPRENEURSHIP AND MANAGEMENT	4.5	-	3.0	5th Year Standing	
Total				15.0+	7.5+	15.0		

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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		CPE ELECTIVE 2 (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+	15.0		

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)	CPE104P, , 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		CPE ELECTIVE 3 (PAIRED)	*	*	3.0		
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				12.0+	10.5+	13.0		

Total Academic Units : 227.00

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ELECTIVES FOR BATCH 2012

- * SEE TABLE OF SPECS FOR ELECTIVES
 - + ADD LECTURE AND LABORATORY HOURS OF CHOSEN ELECTIVE COURSES AS REFLECTED IN THE TABLE OF SPECS
- Elective Type: CPE FREE ELECTIVES 2012 (9)
 Required Units: 9.00

TRACK 1: EMBEDDED SYSTEMS

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	6.0	ECE131,ECE131L	
5	2	CPE161P-1	EMBEDDED SYSTEMS DESIGN AND PROGRAMMING	3.0	3.0	6.0	CPE103,CPE103L	
5	3	CPE161P-2	FIELD-PROGRAMMABLE GATE ARRAY(FPGA) DESIGN AND PROGRAMMING	3.0	3.0	6.0	CPE101, CPE101L	
Total				9.0	9.0	9.0		

TRACK 2: NETWORK ADMINISTRATION

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	IT131P	CCNA 1 - NETWORKING BASICS	3.0	4.5	7.5		
5	2	IT132P	CCNA 2 - ROUTERS AND ROUTING BASICS	3.0	4.5	7.5	IT131P	
5	3	IT133P	CCNA 3 - SWITCHING BASICS AND INTERMEDIATE ROUTING	3.0	4.5	7.5	IT132P	
Total				9.0	13.5	9.0		