

BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING (B.S. ECE)

(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	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	0.0	(3.0)	NONE	NONE
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0	NONE	NONE
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	0.0	3.0	NONE	NONE
1	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	0.0	3.0	NONE	NONE
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	0.0	2.0	NONE	NONE
1	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0	NONE	CHM021
1	1	MATH011	ALGEBRA	4.5	0.0	3.0	NONE	NONE
1	1	PE011	PHYSICAL EDUCATION 1: PHYSICAL FITNESS AND GYMNASTICS	-	3.0	(2.0)	NONE	NONE
1	1	VE011	VALUES EDUCATION 1	1.5	0.0	(1.0)	NONE	NONE
Total				21.0	9.0	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4.0	3.0	0.0	NSTP010	NONE
1	2	DRAW022W	ENGINEERING DRAWING 2 (DRAW)	-	3.0	1.0	DRAW021W	NONE
1	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	0.0	FIL001	NONE
1	2	CHM022	GENERAL CHEMISTRY 2	3.0	-	0.0	CHM021	NONE
1	2	CHM022L	GENERAL CHEMISTRY 2 (LAB)	-	3.0	1.0	CHM021, CHM021L	CHM022
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	0.0	ENG021	NONE
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	0.0	MATH011	NONE
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	0.0	MATH011	NONE
1	2	PE012	PHYSICAL EDUCATION 2: DANCE AND MARTIAL ARTS	-	3.0	(2.0)	PE011	NONE
1	2	VE012	VALUES EDUCATION 2	1.5	-	0.0	VE011	NONE
Total				21.0	9.0	2.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	3	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	NONE
1	3	CHM023	GENERAL CHEMISTRY 3	3.0	-	2.0	CHM022	NONE
1	3	CHM023L	GENERAL CHEMISTRY 3 (LAB)	-	3.0	1.0	CHM022, CHM022L	CHM023
1	3	ENG023	ENGLISH FOR ACADEMIC STUDIES 3	4.5	-	3.0	ENG022	NONE
1	3	MATH013	ANALYTIC GEOMETRY	4.5	-	3.0	MATH012	NONE
1	3	MATH014	SOLID MENSURATION	3.0	-	2.0	MATH012	NONE
1	3	MATH021	CALCULUS 1	4.5	-	3.0	MATH012	MATH013
1	3	PE013	PHYSICAL EDUCATION 3: INDIVIDUAL/DUAL SPORTS	-	3.0	(2.0)	NONE	NONE
Total				19.5	9.0	15.0		

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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	NONE	NONE
2	1	HUM011	LOGIC REASONING WITH CRITICAL THINKING	4.5	-	3.0	NONE	NONE
2	1	MATH022	CALCULUS 2	4.5	-	3.0	MATH013, MATH021	NONE
2	1	PHY021	PHYSICS 1	4.5	-	3.0	MATH021	NONE
2	1	PHY021L	PHYSICS 1 (LAB)	-	3.0	1.0	MATH021	PHY021
2	1	SS017	SOCIETY,CULTURE AND FAMILY LIFE	4.5	-	3.0	NONE	NONE
Total				19.5	6.0	15.0		

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	SS016	PHILIPPINE HISTORY	4.5	-	3.0		
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	NONE
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
Total				19.5	9.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	3	ECE120L	INTRODUCTION TO MATLAB (LAB)	-	3.0	1.0	2nd Year Standing	NONE
2	3	MATH025	DIFFERENTIAL EQUATIONS	4.5	-	3.0	MATH023	NONE
2	3	PHY023	PHYSICS 3	4.5	-	3.0	PHY022,	NONE
2	3	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0	NONE	NONE
2	3	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0	NONE	NONE
2	3	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, PHY022L	PHY023
Total				18.0	6.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	
2	4	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0		
Total				9.0	0.0	6.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	1	ECE113	ELECTROMAGNETICS 1	4.5	-	3.0	MATH022	
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	
Total				21.0	4.5	15.0		

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	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	ECE113-1	ELECTROMAGNETICS 2	4.5	-	3.0	ECE113, PHY023	
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	
3	2	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing	
Total				19.5	9.0	15.0		

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	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	ME111	THERMODYNAMICS	4.5	-	3.0	MATH023, PHY023	
3	3	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	
Total				16.5	15.0	13.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101	
4	1	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101, CPE101L	CPE103
4	1	ECE103	ELECTRONICS 3	4.5	-	3.0	ECE102	
4	1	ECE103L	ELECTRONICS 3 (LAB)	-	4.5	1.0	ECE102, ECE102L	ECE103
4	1	ECE141	COMMUNICATIONS 1	4.5	-	3.0	ECE102, MATH115	
4	1	ECE141L	COMMUNICATIONS 1 (LAB)	-	4.5	1.0	ECE102, MATH115	ECE141
4	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	
Total				16.5	16.5	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	2	ECE131	FEEDBACK AND CONTROL SYSTEMS	4.5	-	3.0	ECE102, ECE120L, MATH115	
4	2	ECE131L	FEEDBACK AND CONTROL SYSTEMS (LAB)	-	4.5	1.0	ECE102, ECE102L, ECE120L, MATH115	ECE131
4	2	ECE142	COMMUNICATIONS 2	4.5	-	3.0	ECE141	
4	2	ECE142L	COMMUNICATIONS 2 (LAB)	-	4.5	1.0	ECE141, ECE141L	ECE142
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	ECE151P-1	NETWORKING BASICS	3.0	4.5	3.0	ECE141	
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
Total				16.5	16.5	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	ECE120L, , MATH110, MATH115	
4	3	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE120L, , MATH110, MATH115	
4	3	ECE143	COMMUNICATIONS 3	4.5	-	3.0	ECE113-1, ECE142	
4	3	ECE143L	COMMUNICATIONS 3 (LAB)	-	4.5	1.0	ECE113-1, ECE142, , ECE142L	ECE143
4	3	ECE198	ECE CORRELATION 1	-	3.0	(1.0)	CPE103, ECE103, ECE113-1, ECE131, ECE141, EE102, ME111, MEC102, MEC103	
4	3		ECE ELECTIVE 1	*	*	3.0		
4	3	ECE200D-1	ECE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	
Total				10.5+	18.0+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	ECE147	ADVANCED DATA COMMUNICATIONS	3.0	-	2.0	ECE142, , ECE142L	
5	1		ECE ELECTIVE 2	*	*	3.0		
5	1	EE112	ELECTROMECHANICAL ENERGY CONVERSION	4.5	-	3.0	EE102	
5	1	EE112L	ELECTROMECHANICAL ENERGY CONVERSION (LAB)	-	4.5	1.0	EE102, , EE102L	EE112
5	1	ECE200D-2	ECE CAPSTONE PROJECT 2	-	3.0	1.0	ECE200D-1	
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	
5	1	MATH160L	NUMERICAL METHODS (LAB)	-	4.5	1.0	MATH025	MATH160
Total				12.0+	12.0+	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	ECE148	WIRE AND WIRELESS COMMUNICATIONS	3.0	-	2.0	ECE143	
5	2	ECE181	ECE LAWS, CODES AND ETHICS	4.5	-	3.0	5th Year Standing	
5	2		ECE ELECTIVE 3	*	*	3.0		
5	2	ECE200D-3	ECE CAPSTONE PROJECT 3	-	3.0	1.0	ECE200D-2	
5	2	EECO101	ENGINEERING ECONOMY	4.5	-	3.0		
5	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
Total				16.5+	3.0+	15.0		

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5	3	ECE149	BROADCAST ENGINEERING AND ELECTRONIC NAVIGATIONAL AIDS	3.0	-	2.0	ECE141	
5	3	ECE191F	ECE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing	
5	3	ECE198-1	ECE CORRELATION 2	-	3.0	(1.0)	ECE121, ECE143, ECE181, EE112, EECO101, MATH160	
5	3		ECE ELECTIVE 4	*	*	3.0		
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0		
5	3	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM023, PHY023	
Total				12.0+	7.5+	12.0		

ELECTIVES FOR BATCH 2014

Elective Type: ECE FREE ELECTIVES 2013

Required Units: 12.00

ELECTIVE

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
		ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	3.0	ECE131, ECE131L	
		ECE135P-1	SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM	3.0	3.0	3.0	ECE131, ECE131L	
		ECE135P-2	MECHATRONICS 1 - FUNDAMENTALS OF MECHATRONICS	3.0	3.0	3.0	ECE131, ECE131L	
		ECE135P-3	MECHATRONICS 2 - ROBOTICS	3.0	3.0	3.0	ECE135P-2	
		ECE151P-2	ROUTERS AND ROUTING BASICS (PAIRED)	3.0	4.5	3.0	ECE151P-1	
		ECE151P-3	SWITCHING BASICS AND INTERMEDIATE ROUTING (PAIRED)	3.0	4.5	3.0	ECE151P-2	
		ECE151P-4	WAN TECHNOLOGIES (PAIRED)	3.0	4.5	3.0	ECE151P-3	

Total Academic Units : 220.00