

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

(Curriculum applicable to students who entered as freshmen beginning school year 2015-2016)

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
1	1	CHM021	GENERAL CHEMISTRY 1	3.0	-	2.0	None	None
1	1	CHM021L	GENERAL CHEMISTRY 1 (LAB)	-	3.0	1.0	None	CHM021
1	1	DRAW021W	ENGINEERING DRAWING 1 (DRAW)	-	3.0	1.0	None	None
1	1	ENG021	ENGLISH FOR ACADEMIC STUDIES 1	4.5	-	3.0	None	None
1	1	FIL001	KOMUNIKASYON SA AKADEMIKONG FILIPINO	4.5	-	3.0		None
1	1	MATH011	ALGEBRA	4.5	-	3.0	None	None
1	1	NSTP010	OVERVIEW OF THE NATIONAL SERVICE TRAINING PROGRAM	3.0	-	(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	-	(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	CHM022	GENERAL CHEMISTRY 2	3.0	-	2.0	CHM021	None
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	None
1	2	ENG022	ENGLISH FOR ACADEMIC STUDIES 2	4.5	-	3.0	ENG021	None
1	2	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	None
1	2	MATH011-2	ADVANCED ALGEBRA	3.0	-	2.0	MATH011	None
1	2	MATH012	PLANE AND SPHERICAL TRIGONOMETRY	4.5	-	3.0	MATH011	None
1	2	NSTP011-1P	CIVIC WELFARE TRAINING SERVICE	4.0	3.0	(3.0)	NSTP010	None
1	2	PE012	PHYSICAL EDUCATION 2: DANCE, MARTIAL ARTS AND BOARD GAMES	-	3.0	(2.0)	PE011	None
1	2	VE012	VALUES EDUCATION 2	1.5	-	(1.0)	VE011	None
Total				25.0	12.0	15.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
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	DRAW023L	COMPUTER-AIDED DRAFTING & DESIGN (LAB)	-	3.0	1.0	DRAW022W	None
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 AND GROUP GAMES	-	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	None
2	2	HUM016	ADVANCED LOGIC AND REASONING	4.5	-	3.0	HUM011	None
2	2	MATH023	CALCULUS 3	4.5	-	3.0	MATH022	None
2	2	PE014	PHYSICAL EDUCATION 4:TEAM SPORTS	-	3.0	(2.0)	PE013	None
2	2	PHY022	PHYSICS 2	4.5	-	3.0	MATH022, PHY021	None
2	2	PHY022L	PHYSICS 2 (LAB)	-	3.0	1.0	MATH022, PHY021, PHY021L	PHY022
2	2	SS016	PHILIPPINE HISTORY	4.5	-	3.0	None	None
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	PHY023L	PHYSICS 3 (LAB)	-	3.0	1.0	PHY022, PHY022L	PHY023
2	3	SS013	ECONOMICS, TAXATION AND AGRARIAN REFORM	4.5	-	3.0	None	None
2	3	SS015	POLITICS, GOVERNANCE AND THE 1987 PHILIPPINE CONSTITUTION	4.5	-	3.0	None	None
Total				18.0	6.0	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	4	HUM014	PHILIPPINE LITERATURE IN ENGLISH	4.5	-	3.0	None	None
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	None
Total				9.0		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	None
3	1	EE101	CIRCUITS 1	4.5	-	3.0	MATH025, PHY023	None
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	None
3	1	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	None
3	1	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	None
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	None
3	2	ECE101	ELECTRONIC DEVICES AND CIRCUITS	4.5	-	3.0	EE101	None
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	None
3	2	EE102	CIRCUITS 2	4.5	-	3.0	EE101	None
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	None
3	2	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing	None
Total				19.5	12.0	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	None
3	3	CPE101	LOGIC CIRCUITS AND SWITCHING THEORY	4.5	-	3.0	ECE101	None
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	None
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	None
3	3	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	None
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	None
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	None
4	1	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101, CPE101L	CPE103
4	1	ECE103	ELECTRONICS 3	4.5	-	3.0	ECE102	None
4	1	ECE103L	ELECTRONICS 3 (LAB)	-	4.5	1.0	ECE102, ECE102L	ECE103
4	1	ECE141	COMMUNICATIONS 1	4.5	-	3.0	ECE102, MATH115	None
4	1	ECE141L	COMMUNICATIONS 1 (LAB)	-	4.5	1.0	ECE102, MATH115	ECE141
4	1	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	None
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	None
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	None
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	None
4	2	ECE142L	COMMUNICATIONS 2 (LAB)	-	4.5	1.0	ECE141, ECE141L	ECE142
4	2	ECE151P-1	NETWORKING BASICS	3.0	4.5	3.0	ECE141	None
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	None
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	None
Total				16.5	16.5	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Total Units	Prerequisites	Co-requisites
4	3	ECE121	SIGNALS, SPECTRA AND SIGNAL PROCESSING	4.5	-	3.0	ECE120L, MATH110, MATH115	None
4	3	ECE121L	SIGNALS, SPECTRA AND SIGNAL PROCESSING (LAB)	-	4.5	1.0	ECE120L, MATH110, MATH115	None
4	3	ECE143	COMMUNICATIONS 3	4.5	-	3.0	ECE113-1, ECE142	None
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	None
4	3	ECE200D-1	ECE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	None
4	3	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	None
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	None
4	3		ECE ELECTIVE 1	*	*	3.0	*	*
Total				10.5+	18.0+	13.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Total Units	Prerequisites	Co-requisites
5	1	ECE147	ADVANCED DATA COMMUNICATIONS	3.0	-	2.0	ECE142, ECE142L	None
5	1	EE112	ELECTROMECHANICAL ENERGY CONVERSION	4.5	-	3.0	EE102	None
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	None
5	1	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	None
5	1	MATH160L	NUMERICAL METHODS (LAB)	-	4.5	1.0	MATH025	MATH160
5	1		ECE ELECTIVE 2	*	*	3.0	*	*
Total				12.0+	12.0+	14.0		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Total Units	Prerequisites	Co-requisites
5	2	ECE148	WIRE AND WIRELESS COMMUNICATIONS	3.0	-	2.0	ECE143	None
5	2	ECE181	ECE LAWS, CODES AND ETHICS	4.5	-	3.0	5th Year Standing	None
5	2	ECE200D-3	ECE CAPSTONE PROJECT 3	-	3.0	1.0	ECE200D-2	None
5	2	EECO101	ENGINEERING ECONOMY	4.5	-	3.0	None	None
5	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	None	None
5	2		ECE ELECTIVE 3	*	*	3.0	*	*
Total				16.5+	3.0+	15.0		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Total Units	Prerequisites	Co-requisites
5	3	ECE149	BROADCAST ENGINEERING AND ELECTRONIC NAVIGATIONAL AIDS	3.0	-	2.0	ECE141	None
5	3	ECE191F	ECE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing	None
5	3	ECE198-1	ECE CORRELATION 2	-	3.0	(1.0)	ECE121, ECE143, ECE181, EE112, EECO101, MATH160	None
5	3	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0	None	None
5	3	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM023, PHY023	None
5	3		ECE ELECTIVE 4	*	*	3.0	*	*
Total				12.0+	7.5+	12.0		

Total Academic Units: 220

Total Non-academic Units: 22

* See table of specifications for Electives

+ Add Lecture and Laboratory Hours of chosen Elective courses as reflected in the table of specifications

ECE PROFESSIONAL ELECTIVES

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Total Units	Prerequisites	Co-requisites
		ECE135P	Industrial Control and Instrumentation Systems	3.0	3.0	3.0	ECE131, ECE131L	None
		ECE135P-1	Supervisory Control and Data Acquisition System	3.0	3.0	3.0	ECE131, ECE131L	None
		ECE135P-2	Mechatronics 1 - Fundamentals Of Mechatronics	3.0	3.0	3.0	ECE131, ECE131L	None
		ECE135P-3	Mechatronics 2 - Robotics	3.0	3.0	3.0	ECE135P-2	None
		ECE151P-2	Routers and Routing Basics (Paired)	3.0	4.5	3.0	ECE151P-1	None
		ECE151P-3	Switching Basics and Intermediate Routing (Paired)	3.0	4.5	3.0	ECE151P-2	None
		ECE151P-4	WAN technologies (Paired)	3.0	4.5	3.0	ECE151P-3	None