

## Bachelor of Science in Electronics 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)		
<b>Total</b>				<b>19.5</b>	<b>8.5</b>	<b>13.0</b>		

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	
<b>Total</b>				<b>22.5</b>	<b>8.5</b>	<b>15.0</b>		

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)		
<b>Total</b>				<b>21.0</b>	<b>8.5</b>	<b>15.0</b>		

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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		
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>		

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		
<b>Total</b>				<b>18.0</b>	<b>11.5</b>	<b>15.0</b>		

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	2nd Year Standing	
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
<b>Total</b>				<b>16.5</b>	<b>11.5</b>	<b>14.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
2	4	FIL002	PAGBASA AT PAGSULAT TUNGO SA PANANALIKSIK	4.5	-	3.0	FIL001	
2	4	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, , PHY022	
<b>Total</b>				<b>9.0</b>	<b>0.0</b>	<b>6.0</b>		

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	
<b>Total</b>				<b>21.0</b>	<b>4.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
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	
<b>Total</b>				<b>19.5</b>	<b>9.0</b>	<b>15.0</b>		

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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	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	
<b>Total</b>				<b>16.5</b>	<b>15.0</b>	<b>13.0</b>		

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		
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	
<b>Total</b>				<b>16.5</b>	<b>16.5</b>	<b>15.0</b>		

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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	ECE142
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	
4	2	IT131P	CCNA 1 - NETWORKING BASICS	3.0	4.5	3.0		
4	2	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	
<b>Total</b>				<b>16.5</b>	<b>16.5</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	CPE198	CPE CORRELATION 1	-	3.0	(1.0)		
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	ENG043L	ENGLISH FOR THE WORKPLACE 3	-	3.0	1.0	ENG042L	
4	3	VE014	VALUES EDUCATION 4	1.5	-	(1.0)	VE013	
<b>Total</b>				<b>10.5+</b>	<b>18.0+</b>	<b>12.0</b>		

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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	ECE200D-1	ECE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	
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	MATH160	NUMERICAL METHODS	4.5	-	3.0	MATH025	
5	1	MATH160L	NUMERICAL METHODS (LAB)	-	4.5	1.0	MATH025	MATH160
<b>Total</b>				<b>12.0+</b>	<b>10.5+</b>	<b>14.0</b>		

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	ECE200D-2	ECE CAPSTONE PROJECT 2	-	3.0	1.0	ECE200D-1	
5	2		ECE ELECTIVE 3	*	*	3.0		
5	2	EECO101	ENGINEERING ECONOMY	4.5	-	3.0		
5	2	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0		
<b>Total</b>				<b>16.5+</b>	<b>1.5+</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
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	ECE200D-3	ECE CAPSTONE PROJECT 3	-	3.0	1.0	ECE200D-2	
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	
<b>Total</b>				<b>12.0+</b>	<b>10.5+</b>	<b>13.0</b>		

**Total Academic Units : 220.00**

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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: ECE FREE ELECTIVES 2012 (12)

Required Units: 12.00

## ELECTIVE

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	ECE135P	INDUSTRIAL CONTROL AND INSTRUMENTATION SYSTEMS	3.0	3.0	6.0		
<b>Total</b>				<b>3.0</b>	<b>3.0</b>	<b>3.0</b>		

## TRACK 1: CONTROL SYSTEM TRACK

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	ECE135P-1	Supervisory Control and Data Acquisition System	3.0	3.0	6.0		
5	2	ECE135P-2	Mechatronics 1 - Fundamentals Of Mechatronics	3.0	3.0	6.0		
5	3	ECE135P-3	Mechatronics 2 - Robotics	3.0	3.0	6.0		
<b>Total</b>				<b>9.0</b>	<b>9.0</b>	<b>9.0</b>		

## TRACK 2: CISCO TRACK

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	IT132P.CCNA2	Routers and Routing Basics (Paired)	3.0	4.5	7.5		
5	2	IT133P.CCNA3	Switching Basics and Intermediate Routing (Paired)	3.0	4.5	7.5		
5	3	IT134P.CCNA4	WAN Rechnologies (Paired)	3.0	4.5	7.5		
<b>Total</b>				<b>9.0</b>	<b>13.5</b>	<b>9.0</b>		