

## BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING (B.S. EE)

(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
<b>Total</b>				<b>21.0</b>	<b>9.0</b>	<b>13.0</b>		

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
<b>Total</b>				<b>25.0</b>	<b>12.0</b>	<b>15.0</b>		

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
<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
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
<b>Total</b>				<b>19.5</b>	<b>6.0</b>	<b>15.0</b>		

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
<b>Total</b>				<b>19.5</b>	<b>9.0</b>	<b>15.0</b>		

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
<b>Total</b>				<b>18.0</b>	<b>6.0</b>	<b>14.0</b>		

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	MATH140	DISCRETE MATHEMATICS	4.5	-	3.0	MATH011	None
2	4	SS014	JOSE RIZAL AND THE DEVELOPMENT OF FILIPINO NATIONALISM	4.5	-	3.0	None	None
<b>Total</b>				<b>13.5</b>	<b>0.0</b>	<b>9.0</b>		

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(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
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	MATH115	ADVANCED ENGINEERING MATHEMATICS	4.5	-	3.0	MATH025	None
3	1	MEC101	STATICS OF RIGID BODIES	4.5	-	3.0	MATH022, PHY022	None
3	1	SAF101	SAFETY MANAGEMENT	1.5	-	1.0	3rd Year Standing	None
<b>Total</b>				<b>19.5</b>	<b>4.5</b>	<b>14.0</b>		

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	EE102	CIRCUITS 2	4.5	-	3.0	EE101	None
3	2	EE102L	CIRCUITS 2 (LAB)	-	4.5	1.0	EE101, EE101L	EE102
3	2	EE121	ELECTRICAL ENGINEERING SAFETY	1.5	-	1.0	SAF101	None
3	2	MATH110	PROBABILITY AND STATISTICS	4.5	-	3.0	MATH011	None
3	2	MEC102	DYNAMICS OF RIGID BODIES	3.0	-	2.0	MEC101	None
<b>Total</b>				<b>18.0</b>	<b>9.0</b>	<b>14.0</b>		

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	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	EE103	CIRCUITS 3	3.0	-	2.0	EE102	None
3	3	EE103L	CIRCUITS 3 (LAB)	-	4.5	1.0	EE102, EE102L	EE103
3	3	ME111	THERMODYNAMICS	4.5	-	3.0	MATH023, PHY023	None
3	3	MEC103	MECHANICS OF DEFORMABLE BODIES	4.5	-	3.0	MEC101	None
3	3	VE013	VALUES EDUCATION 3	1.5	-	(1.0)	VE011	None
<b>Total</b>				<b>18.0</b>	<b>12.0</b>	<b>13.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
3	4	EEO101	ENGINEERING ECONOMY	4.5	-	3.0	None	None
3	4	EMGT101	ENGINEERING MANAGEMENT	4.5	-	3.0	None	None
3	4	MSE101	FUNDAMENTALS OF MATERIAL SCIENCE AND ENGINEERING	4.5	-	3.0	CHM023, PHY023	None
<b>Total</b>				<b>13.5</b>	<b>0.0</b>	<b>9.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	1	CE121	MECHANICS OF FLUIDS	3.0	-	2.0	MEC102	None
4	1	ECE103	INDUSTRIAL ELECTRONICS	4.5	-	3.0	ECE102	None
4	1	ECE103L	INDUSTRIAL ELECTRONICS (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	EE106	DC MACHINERY	3.0	-	2.0	EE102	None
4	1	EE106L	DC MACHINERY (LAB)	-	4.5	1.0	EE102, EE102L	EE106
4	1	ENG041L	ENGLISH FOR THE WORKPLACE 1	-	3.0	1.0	ENG023	None
<b>Total</b>				<b>15.0</b>	<b>16.5</b>	<b>14.0</b>		

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	EE107	AC MACHINERY	4.5	-	3.0	EE103, EE106	None
4	2	EE107L	AC MACHINERY (LAB)	-	4.5	1.0	EE103, EE106, EE106L	EE107
4	2	EE122	AC APPARATUS AND DEVICES	3.0	-	2.0	None	EE107
4	2	EE122L	AC APPARATUS AND DEVICES (LAB)	-	4.5	1.0	None	EE107, EE122
4	2	ENG042L	ENGLISH FOR THE WORKPLACE 2	-	3.0	1.0	ENG041L	None
4	2	RES101P	METHODS OF RESEARCH (PAIRED)	1.5	3.0	2.0	MATH110	None
<b>Total</b>				<b>13.5</b>	<b>15.0</b>	<b>13.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	3	EE111	ILLUMINATION ENGINEERING DESIGN	3.0	-	2.0	4th Year Standing	None
4	3	EE111L	ILLUMINATION ENGINEERING DESIGN (LAB)	-	4.5	1.0	4th Year Standing	EE111
4	3	EE123	ELECTRICAL EQUIPMENT OPERATION AND MAINTENANCE	4.5	-	3.0	EE107, EE122	None
4	3	EE131	ELECTRICAL TRANSMISSION AND DISTRIBUTION SYSTEM	4.5	-	3.0	EE107	None
4	3	EE131L	ELECTRICAL TRANSMISSION AND DISTRIBUTION SYSTEM (LAB)	-	4.5	1.0	EE107, , EE107L	EE131
4	3	EE198	EE CORRELATION 1	-	3.0	(1.0)	ECE103, ECE113, ECE131, ECE141, EE121, EE122, MATH110, ME111	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	EEELEC01P	EE ELECTIVE 1	*	*	3.0	*	*
<b>Total</b>				<b>13.5+</b>	<b>15.0+</b>	<b>14.0</b>		

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Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
4	4	EE199R	EE PRACTICUM	-	20.0	3.0	4th Year Standing	None
<b>Total</b>				<b>0.0</b>	<b>20.0</b>	<b>3.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	1	ECE132	INSTRUMENTATION AND CONTROL	3.0	-	2.0	ECE103, ECE131	None
5	1	ECE132L	INSTRUMENTATION AND CONTROL (LAB)	-	4.5	1.0	ECE103, ECE103L, ECE131	ECE132
5	1	EE109	ELECTRICAL SYSTEM DESIGN	3.0	-	2.0	EE111	None
5	1	EE109L	ELECTRICAL SYSTEM DESIGN (LAB)	-	4.5	1.0	EE111, EE111L	EE109
5	1	EE191F	EE SEMINARS AND FIELD TRIPS (FIELD)	-	4.5	1.0	5th Year Standing	None
5	1	EE200D-1	EE CAPSTONE PROJECT 1	-	3.0	1.0	RES101P	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	EEELEC02P	EE ELECTIVE 2	*	*	3.0	*	*
<b>Total</b>				<b>10.5+</b>	<b>21.0+</b>	<b>15.0</b>		

Year	Term	Code	Title	Lec Hrs	Lab Hrs	Credit Units	Prerequisites	Co-requisites
5	2	CPE101	LOGIC CIRCUITS AND SWITCHING THEORY	4.5	-	3.0	ECE101	None
5	2	CPE101L	LOGIC CIRCUITS AND SWITCHING THEORY (LAB)	-	4.5	1.0	ECE101, ECE101L	CPE101
5	2	EE132	POWER SYSTEM ANALYSIS AND DESIGN	4.5	-	3.0	EE131	None
5	2	EE132L	POWER SYSTEM ANALYSIS AND DESIGN (LAB)	-	4.5	1.0	EE131, EE131L	EE132
5	2	EE133	POWER PLANT ENGINEERING	3.0	-	2.0	None	EE132
5	2	EE133L	POWER PLANT ENGINEERING (LAB)	-	4.5	1.0	None	EE132, EE132L, EE133
5	2	EE200D-2	EE CAPSTONE PROJECT 2	-	3.0	1.0	EE200D-1	None
5	2	EEELEC03P	EE ELECTIVE 3	*	*	3.0	*	*
<b>Total</b>				<b>12.0+</b>	<b>16.5+</b>	<b>15.0</b>		

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5	3	CPE103	MICROPROCESSOR SYSTEM	4.5	-	3.0	CPE101	None
5	3	CPE103L	MICROPROCESSOR SYSTEM (LAB)	-	4.5	1.0	CPE101, CPE101L	CPE103
5	3	EE181	EE LAWS, CODES AND ETHICS	3.0	-	2.0	5th Year Standing	None
5	3	EE198-1	EE CORRELATION 2	-	3.0	(1.0)	CE121, CPE101, ECE132, EE109, EE123, EE133, EECO101, EMGT101, MEC102, MEC103, MSE101	None
5	3	EE200D-3	EE CAPSTONE PROJECT 3	-	3.0	1.0	EE200D-2	None
5	3	EENV101	ENVIRONMENTAL ENGINEERING	3.0	-	2.0	CHM023, CHM023L	None
5	3	IT123	INFORMATION TECHNOLOGY	3.0	-	2.0	ECE141	None
5	3	IT123L	INFORMATION TECHNOLOGY (LAB)	-	4.5	1.0	ECE141	IT123
5	3	EEELEC04P	EE ELECTIVE 4	*	*	3.0	*	*
<b>Total</b>				<b>13.5+</b>	<b>15.0+</b>	<b>15.0</b>		

Total Academic Units: 235

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

### EE PROFESSIONAL ELECTIVE COURSES

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	ECE103, ECE103L	None
		EE135	POWER SYSTEM PROTECTION	4.5	0.0	3.0	EE107, EE107L, EE122, EE122L	None
		EE109P	ADVANCED ELECTRICAL SYSTEM DESIGN: HIGH-RISE AND INDUSTRIAL BUILDINGS	3.0	3.0	3.0	EE109, EE109L	None
		EE132P	ADVANCED POWER SYSTEM DESIGN: SUBSTATION AND DISTRIBUTION	3.0	3.0	3.0	EE132, EE132L	None
<b>Total</b>				<b>13.5</b>	<b>9.0</b>	<b>12.0</b>		