

# Bachelor of Science in Electronics Engineering (BSECE)

Effective: June 2013-2014

FIRST YEAR	FIRST SEMESTER				
SUBJECT CODE	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
Math 101	College Algebra	3	0	3	None
Math 103	Plane and Spherical Trigonometry	3	0	3	None
Chem 101	General Chemistry 1	3	3	4	None
ES 101	Computer Fundamentals with Software Applications	2	3	3	None
Engl 101	Communication Arts I	3	0	3	None
Fili 101	Komunikasyon sa Akademikong Filipino	3	0	3	None
Human 101	Arts & Appreciation	3	0	3	None
PE 101	Physical Fitness & Health	2	0	2	None
NSTP 1	National Service Training Program	3	0	3	None
	<b>TOTAL</b>	<b>25</b>	<b>6</b>	<b>27</b>	

FIRST YEAR	SECOND SEMESTER				
SUBJECT CODE	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
Math 102	Advanced Algebra	2	0	2	Math 101
Math 104	Analytic Geometry	3	0	3	Math 101, Math 103
Math 105	Solid Mensuration	3	0	3	Math 101, Math 103
ES 102	Computer Programming	2	3	3	ES 101
Engl 102	Communication Arts II	3	0	3	Engl. 101
Fili 102	Pagbasa't Pagsulat Tungo sa Pananaliksik	3	0	3	Fili 101
Soc. Sci 101	Philippine History	3	0	3	None
PE 102	Rhythmic Activities	2	0	2	PE 101
NSTP 2	National Service Training Program	3	0	3	NSTP 1
	<b>TOTAL</b>	<b>24</b>	<b>3</b>	<b>25</b>	

SECOND YEAR	FIRST SEMESTER				
SUBJECT CODE	DESCRIPTION	LEC	LAB	UNITS	PREREQUISITE
Math 106	Differential Calculus	5	0	5	Math102,Math104, Math105
Math 110	Probabilities & Statistics	3	0	3	Math 102
ES 103	Engineering Drawing	0	6	2	None
Phys 101	College Physics 1	3	3	4	Math 102, Math 103
Engl 103	Technical Communication	3	0	3	Engl. 102
Philo 101	Logic	3	0	3	None

Soc.Sci. 102	Principles of Economics, Taxation & Agrarian Reform	3	0	3	None
Human 102	The Image of the Filipino in Arts	3	0	3	None
PE 103	Individual & Dual Sports	2	0	2	PE 101
<b>TOTAL</b>		<b>25</b>	<b>9</b>	<b>28</b>	

<b>SECOND YEAR</b>	<b>SECOND SEMESTER</b>				
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
Math 107	Integral Calculus	5	0	5	Math 106
ES 104	Computer Aided Drafting	1	3	2	ES 103
Phys 102	College Physics 2	3	3	4	Phys 101
Engl 104	Advanced Grammar and Public Speaking	3	0	3	Engl. 103
Soc. Sci 103	General Psychology	3	0	3	None
Soc.Sci.104	Politics and Governance w/ Phil. Constitution	3	0	3	None
Rizal 101	Life and Works of Rizal	3	0	3	None
PE 104	Team Sports	2	0	2	PE 101
<b>TOTAL</b>		<b>23</b>	<b>6</b>	<b>25</b>	

<b>THIRD YEAR</b>	<b>FIRST SEMESTER</b>				
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
Math 108	Differential Equations	3	0	3	Math 107
Math 111	Discrete Mathematics	3	0	3	Math 102, Math 110
ES 105	Statics of Rigid Bodies	3	0	3	Phys 101 & Math 107
ES 110	Environmental Engineering	3	0	3	Chem. 101
ES 111	Safety Management	3	0	3	3rd Year Standing
ECE 101	Electronics 1	3	0	3	Phys 102 & Math 107
ECE 101L	Electronics 1 Lab	0	3	1	Phys 102 & Math 107
ECE 118	Vector Analysis	3	0	3	Math 107
EE 101	Circuits 1	3	0	3	Phys 102& Math 107
EE 101L	Circuits 1 Lab	0	3	1	Phys 102& Math 107
<b>TOTAL</b>		<b>24</b>	<b>6</b>	<b>26</b>	

<b>THIRD YEAR</b>	<b>SECOND SEMESTER</b>				
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
Math 109	Advanced Engineering Math	3	0	3	Math 108
ES 106	Dynamics of Rigid Bodies	3	0	3	ES 105
ES 107	Mechanics of Deformable Bodies	3	0	3	ES 105

ES 109	Basic Thermodynamics	3	0	3	Phys 102 & Math 107
ECE 102	Electronics 2	3	0	3	ECE 101/ECE 101L
ECE 102L	Electronics 2 Lab	0	3	1	ECE 101/ECE 101L
EE 102	Circuits 2	3	0	3	EE 101/ EE 101L
EE 102L	Circuits 2 Lab	0	3	1	EE 101/ EE 101L
EE 107	Electromagnetics	3	0	3	Phys 102 & Math 107
ECE 104	Electronics CADD	2	3	3	ES 104, ECE 101/ECE 101L
Jeep 01	Jeep Start Accelerate 01	1.5	4.5	3	Engl 107
<b>TOTAL</b>		<b>24.5</b>	<b>13.5</b>	<b>29</b>	

FOURTH YEAR	FIRST SEMESTER				
	SUBJECT CODE	DESCRIPTION	LEC	LAB	UNITS
Math 112	Numerical Methods	3	0	3	Math 109, ES 105
Math 112L	Numerical Methods Lab	0	3	1	Math 109, ES 105
ES 114	Engineering Materials	3	0	3	Phys 102, Chem 101
ECE 103	Electronics 3	3	0	3	ECE 102/ECE 102L
ECE 103L	Electronics 3 Lab	0	3	1	ECE 102/ECE 102L
ECE 105	Logic Circuits and Switching Theory	3	0	3	ECE 101/ECE 101L, Math 111
ECE 105L	Logic Circuits and Switching Theory Lab	0	3	1	ECE 101/ECE 101L, Math 111
ECE 110	Principle of Communications	3	3	4	ECE 102/ECE 102L, Math 109
ECE 111	Signals, Spectra, Signal Processing	3	0	3	Math 109, Math 110
ECE 111L	Signals, Spectra, Signal Processing Lab	0	3	1	Math 109, Math 110
ECE 119	ECE Elective 1	3	0	3	4th Year Standing
Jeep 02	Jeep Start Accelerate 02	1.5	4.5	3	Jeep 01
<b>TOTAL</b>		<b>22.5</b>	<b>19.5</b>	<b>29</b>	

FOURTH YEAR	SECOND SEMESTER				
	SUBJECT CODE	DESCRIPTION	LEC	LAB	UNITS
ECE 106	Advanced Logic Circuit	3	0	3	ECE 105/ECE 105L
ECE 106L	Advanced Logic Circuit Lab	0	3	1	ECE 105/ECE 105L

ECE 107	Industrial Electronics	3	0	3	ECE 103/ECE 103L,ECE 102/ECE 102L,
ECE 107L	Industrial Electronics Lab	0	3	1	ECE 103/ECE 103L,ECE 102/ECE 102L,
ECE 109	Feedback and Control Systems	3	0	3	Math 109
ECE 109L	Feedback and Control Systems Lab	0	3	1	Math 109
ECE 113	Digital Communications	3	3	4	ECE 110
ECE 120	ECE Elective 2	3	0	3	4th Year Standing
EE 123	Energy Conversion	3	3	4	EE 102/EE 102L, EE 107
ES 116	Engineering Special Topics/ Seminar	3	0	3	4th Year Standing
<b>TOTAL</b>		<b>21</b>	<b>15</b>	<b>26</b>	

<b>SUMMER</b>					
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
ECE 200	ECE PRACTICUM (Company Exposure and Reporting)		240hrs.	3	4th Year Standing

<b>FIFTH YEAR FIRST SEMESTER</b>					
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
ES 112	Engineering Economy	3	0	3	3rd Year Standing
ECE 108	Instrumentation and Control	2	3	3	ECE 107/ECE 107L
CpE 108	Microprocessor System	3	0	3	ECE 102/102L, ECE 105/105L
CpE 108L	Microprocessor System Lab	0	3	1	ECE 102/102L, ECE 105/105L
ECE 114	Transmissions Media and Antenna System	3	3	4	EE 107, ECE 113
ECE 115	Modern Communication Systems	3	0	3	ECE 113
ECE 121	ECE Elective 3	3	0	3	5th Year Standing
ECE 123	ECE Project Study 1	1	6	3	5th Year Standing
<b>TOTAL</b>		<b>18</b>	<b>15</b>	<b>23</b>	

<b>FIFTH YEAR SECOND SEMESTER</b>					
<b>SUBJECT CODE</b>	<b>DESCRIPTION</b>	<b>LEC</b>	<b>LAB</b>	<b>UNITS</b>	<b>PREREQUISITE</b>
ES 113	Engineering Management	3	0	3	3rd Year Standing
ES 115	Entrepreneurship for Engineers	3	0	3	5th Year Standing
ECE 112	Broadcast Engineering and Acoustics	3	0	3	ECE 110, ECE 111

ECE 116	Data Communications	3	3	4	ECE 113
ECE 117	ECE Laws, Code, Ethics, etc.	3	0	3	5th Year Standing
ECE 122	ECE Elective 4	3	0	3	5th Year Standing
ECE 124	ECE Project Study 2	1	6	3	ECE 123
ECE 100	ECE Review	3	0	3	5th Year Standing
	<b>TOTAL</b>	<b>22</b>	<b>15</b>	<b>25</b>	