



**BACHELOR OF SCIENCE IN ELECTRICAL ENGINEERING**

Per CMO No. 88, series of 2017

Effective School Year 2018-2019

**FIRST YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 131	Engineering Calculus I	3		3	
EPS 131	Chemistry for Engineers	3	3	4	
ENS 131	Engineering Orientation (EE)	2		2	
GE 1	Understanding the Self	3		3	
GE 2	Readings in Philippine History	3		3	
GE 3	The Contemporary World	3		3	
PE 1	Physical Fitness and Health	2		2	
NSTP 1	National Service Training Program 1	3		3	
<b>TOTAL</b>		<b>22</b>	<b>3</b>	<b>23</b>	
*ENM 011	Algebra 1	2		2	
*ENM 012	Plane & Spherical Trigonometry	2		2	

\* Enhancement courses for NON-STEM Senior High Graduates

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 141	Engineering Calculus 2	3		3	ENM 131
EPS 141	Physics for Engineers	3	3	4	ENM 131
ENS 142	Computer Fund. & Programming	2	3	3	
GE 4	Mathematics in the Modern World	3		3	
GE 5	Purposive Communication	3		3	
GE 6	Art Appreciation	3		3	
PE 2	Recreational Games and Sports	2		2	
NSTP 2	National Service Training Program 2	3		3	
<b>TOTAL</b>		<b>22</b>	<b>6</b>	<b>24</b>	
*ENM 021	Algebra 2	2		2	
*ENM 022	Analytic Geometry w/ Solid Mensuration	2		2	

**SECOND YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 231	Differential Equations	3		3	ENM141
ENS 231	Engineering Mechanics 1	3		3	EPS141
ENS 232	Computer-Aided Design	1	3	2	
ENS 233	Environmental Science & Eng'g.	3		3	2nd yr standing
EE 231	Electrical Circuits 1	3	3	4	EPS141;ENM141
ME 230	Basic Thermodynamics	2		2	EPS141;ENM141
GE 7	Science Technology & Society	3		3	
GE 8	Ethics	3		3	
FIL 1	Akademiko sa Wikang Filipino	3		3	
PE 3	Rhythmic and Social Recreation	2		2	
<b>TOTAL</b>		<b>26</b>	<b>6</b>	<b>28</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 241	Engineering Data Analysis	3		3	2nd yr standing
ENS 240	Fund. of Mech. of Deformable Bodies	3		3	ENS231;ENM141
ENS 241	Engineering Mechanics 2	3		3	ENS231
EE 241	Electrical Circuits 2	3	3	4	EE231
EE 242	Engineering Math for EE	3		3	ENM231
EE 243	Electromagnetics	3		3	EPS141; ENM231
ECE 242	Electronic Circuits: Devices & Analysis	3	3	4	EE231
FIL 2	Pagbasa at Pagsulat sa Iba't Ibang Disiplina	3		3	
PE 4	Cultural Presentation & Sports Management	2		2	
<b>TOTAL</b>		<b>26</b>	<b>6</b>	<b>28</b>	

**THIRD YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 331	Engineering Economics	3		3	3rd yr standing
ENS 332	Fluid Mechanics	3		3	EPS141;ENM141
EE 331	Electrical Circuits	3		3	ENS142
EE 332	Numerical Methods & Analysis	3	3	4	EE242
EE 333	Electrical Machines 1 (DC Machinery)	3	3	4	EE241;EE233
ECE 333	Fundamentals of Electronic Comm.	3		3	ECE242
ECE 335	Logic Circuits and Switching Theory	3	3	4	ECE242
ECE 336	Industrial Electronics	3	3	4	ECE242
<b>TOTAL</b>		<b>24</b>	<b>12</b>	<b>28</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 340	Material Science & Engineering	3		3	EPS131;ENS240
EE 341	Research Methods for Engineering	2	3	3	ENM241;GE5
EE 342	Electrical Apparatus and Devices	2	3	3	EE241
EE 343	Electrical Machines 2 (AC Machinery)	3	3	4	EE333
EE 344	Feedback Control Systems	3	3	4	EE242; ECE241
EE 345	EE Laws, Codes & Professional Ethics	3		3	3rd yr standing
EE 346	Management of Engineering Projects	2		2	3rd yr standing
CoE 340	Microprocessor System	3	3	4	EE335
<b>TOTAL</b>		<b>21</b>	<b>15</b>	<b>26</b>	

**Summer**

Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
EE 400	On-the-Job Training 300 hours	3	300	5	Completed all 3rd year Major Subjects

**FOURTH YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
EE 431	Electrical Standards and Practices		3	1	4th yr standing
EE 432	EE Research Project 1	1	3	2	EE400
EE 433	Electrical Systems & Illumination Eng'g	3	6	5	EE343
EE 434	Instrumentation and Control	3	3	4	EE344
EE 435	EE Elective 1	3		3	w/ EE434
EE 436	EE Elective 2	3		3	4th yr standing
GE 9	Life & Works of Rizal	3		3	
LIT 2	World Literature	3		3	
<b>TOTAL</b>		<b>19</b>	<b>15</b>	<b>24</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 243	Technopreneurship	3		3	4th yr standing
ENS 441	Occupational Safety & Health	3		3	4th yr standing
EE 441	Power Systems Analysis	3	6	5	EE431
EE 442	EE Research Project 2		6	2	EE432
EE 443	Fundamentals of Power Plant Engineering	3	3	4	Co-requisite EE441
EE 444	Distribution Systems and substation Design	3	3	4	Co-requisite EE441
EE 445	Seminars/Colloquia		3	1	4th yr standing
EE 500	NORSU Eng'g Competency Assessment	3		3	4th yr standing
<b>TOTAL</b>		<b>18</b>	<b>21</b>	<b>25</b>	

Summary:

<b>NON TECHNICAL</b>	<b>50</b>
General Education:	24
GE Elective/Mandated:	12
Physical Education:	8
NSTP:	6
<b>TECHNICAL</b>	<b>161</b>
Mathematics	12
Natural/Physical Sciences	8
Engineering Sciences	16
Allied Courses:	42
Professional Courses	83
<b>Total</b>	<b>211</b>
With Enhancement	8
<b>Total</b>	<b>219</b>