



RA 9299  
NOPS (1907)

Republic of the Philippines  
**Negros Oriental State University**  
NOTS (1927) EVSAT (1956) CVPC (1983)  
Kagawasan Ave., Dumaguete City, Negros Oriental, Philippines 6200

June 25, 2004

**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**  
Per CMO No. 97, series of 2017  
Effective School Year 2018-2019

**FIRST YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 131	Engineering Calculus 1	3		3	
EPS 131	Chemistry for Engineers	3	3	4	
ENS 131	Engineering Orientation (ME)	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 141	Engineering Drawing			3	1
ENS 142	Computer Fund. & Programming	2	3	3	
GE 4	Mathematics in the Modern World	3		3	
GE 5	Purposive Communication	3		3	
PE 2	Recreational Games and Sports	2		2	
NSTP 2	National Service Training Program 2	3		3	
<b>TOTAL</b>		<b>19</b>	<b>9</b>	<b>22</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	ENM 141
ENS 231	Statics of Rigid Bodies	3		3	EPS 141
ENS 232	Computer-Aided Design	1	3	2	
ENS 233	Environmental Science & Eng'g.	3		3	2nd yr standing
ME 231	Thermodynamics 1	3		3	EPS 141, ENM 141
ME232	Workshop Theory and Practice		3	1	
EE 230	Basic Electrical Engineering	2	3	3	EPS 141, ENM 141
GE 6	Art Appreciation	3		3	
FIL 1	Akademiko sa Wikang Filipino	3		3	
PE 3	Rhythmic and Social Recreation	2		2	
<b>TOTAL</b>		<b>23</b>	<b>9</b>	<b>26</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 241	Engineering Data Analysis	3		3	2nd yr standing
ENM 242	Advanced Eng'g. Mathematics for ME	3		3	ENM 231
ENS 240	Fund. of Mech. of Deformable Bodies	3		3	ENS 231, ENM 141
ENS 241	Dynamics of Rigid Bodies	3		3	ENS 231
ENS 243	Technopreneurship	3		3	2nd yr standing
ME 241	Thermodynamics 2	3		3	ME 231
ME 242	Machine Shop Theory		6	2	ME 232
PE 4	Cultural Presentation & Sports Management	2		2	
GE 10A	Living in the IT Era	3		3	
GE 11	Gender and Society	3		3	
<b>TOTAL</b>		<b>26</b>	<b>6</b>	<b>28</b>	

**THIRD YEAR**

First Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENM 331	Numerical Methods and Analysis	3	3	4	ENM 231
ENS 331	Engineering Economics	3		3	3rd yr standing
ENS 332	Fluid Mechanics	3		3	ENS 241, ME 231
ENS 333	Computer Applications for ME	1	3	2	ENS 142
ME 331	Heat Transfer	2		2	ME 241
ME 332	Machine Elements 1	2	3	3	ENS 241
ME 333	Vibration Engineering	2		2	ENM 231, ENS 241
EE 330	AC/DC Machineries	2	3	3	EE 230
ECE330	Basic Electronics	2	3	3	EE 230
GE 9	Life and Works of Rizal	3		3	
<b>TOTAL</b>		<b>23</b>	<b>15</b>	<b>28</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 341	Research Methods for Engineering	3		3	ENM 241, GE 5
ENS 342	Material Science & Engineering for ME	2	3	3	ENS 240, EPS 131
ENS 343	Engineering Management	3		3	3rd yr standing
ME 341	Machine Elements 2	2	3	3	ME 332
ME 342	Fluid Machineries	3		3	ENS 332
ME 343	Refrigeration Systems	3		3	ME 241
ME 344	Combustion Engineering	2		2	ME 241
ME345	Mechanical Engineering Lab 1		3	1	ME 241
GE 7	Science, Technology & Society	3		3	
GE 8	Ethics	3		3	
<b>TOTAL</b>		<b>24</b>	<b>9</b>	<b>27</b>	

**Summer**

Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ME 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.
ME 431	Machine Design 1	3	3	4	ENS 240, ME 341
ME 432	Airconditioning & Ventilation System	3		3	ME 343
ME 433	Power Plant Design w/ Renewable Energy	4		4	ME 344
ME 434	Control Engineering & Lab	3	3	4	ECE 330
ME 435	ME Project Proposal	1	3	2	ME 400
ME 436	Mechanical Engineering Lab 2	0	6	2	ME 345
ME 437	ME Elective 1	3		3	4th yr standing
GE 12	Philippine Popular Culture	3		3	
<b>TOTAL</b>		<b>20</b>	<b>15</b>	<b>25</b>	

Second Semester					
Subject	Descriptive Title	Lec	Lab	Total	Pre-req.
ENS 441	Occupational Safety & Health	3		3	4th yr standing
ME 441	Machine Design 2	3	3	4	ME 431
ME 442	Industrial Plant Engineering	3	3	4	4th yr standing
ME 443	Manufacturing & Industrial Processes w/ Plant Visit	2	3	3	
ME 444	ME Laws, Contracts, Ethics, Codes & Standards	3		3	
ME 445	ME Project Study		6	2	4th yr standing
ME 446	Mechanical Engineering Lab 3		6	2	
ME 447	ME Elective 2	3		3	
ME 500	NORSU Eng'g Competency Assessment	3		3	
<b>TOTAL</b>		<b>20</b>	<b>21</b>	<b>27</b>	

First Revision: August 2020

**Summary:**

<b>NON TECHNICAL</b>	<b>56</b>
General Education	30
GE Elective/Mandated	12
Physical Education	8
NSTP	6
<b>TECHNICAL</b>	<b>158</b>
Mathematics	16
Natural/Physical Sciences	8
Engineering Sciences	27
Allied Courses:	9
Fundamental Courses	62
Professional Courses	30
Elective Courses	6
<b>Total</b>	<b>214</b>
With Enhancement (for SHS-Off track)	8
<b>Total</b>	<b>222</b>