



**BACHELOR OF SCIENCE IN MECHANICAL ENGINEERING**  
**Program of Study**  
 Based on CMO 97 s. 2017

**Effective 1st Semester AY 2023-2024**

Bridging Course for Non-STEM SHS Graduates

Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units
	BRENG	Bridging Program for Non-STEM	3 0	Non-Credit

1st sem					First Year							
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	
	PE 1 (PATHFit 1)	Movement Competency Training	0 2	(2)	None		PE 2 (PATHFit 2)	Exercise-based Fitness Activities	0 2	(2)	PE 1 (PATHFit 1)	
	NSTP 1	National Service Training Program 1	0 3	3	None		NSTP 2	National Service Training Program 2	0 3	3	NTSP 1	
	GE 1	Understanding the Self	3 0	3	None		GE 5	Contemporary World	3 0	3	None	
	GE 3	Mathematics in the Modern World	3 0	3	None		GE 6	Art Appreciation	3 0	3	None	
	GE 4	Purposive Communication	3 0	3	None		GE 7	Science, Technology & Society	3 0	3	None	
	Eng'g 301	Calculus 1	3 0	3	None		GE 8	Ethics	3 0	3	None	
	Eng'g 305	Chemistry for Engineers	3 3	4	None		Eng'g 302	Calculus 2	3 0	3	Eng'g 301	
	Eng'g. 101	Engineering Drawing	0 3	1	None		Eng'g 306	Physics for Engineers	3 3	4	Eng'g 301, Eng'g 302 -C	
	ME 101	ME Orientation	1 0	1	None							
<b>TOTAL</b>			<b>16</b>	<b>11</b>	<b>23</b>	<b>TOTAL</b>			<b>18</b>	<b>8</b>	<b>24</b>	

Mid Year					
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.
	Eng'g 303	Differential Equations	3 0	3	Eng'g 302
	Eng'g 304	Engineering Data Analysis	3 0	3	Eng'g 301
	Eng'g 110	Computer Fundamentals and Programming	0 3	1	None
<b>TOTAL</b>			<b>6</b>	<b>3</b>	<b>7</b>

3/21/23  
  
**ROMALYN L. GALINGAN**  
 Education Supervisor II  
 CHEDRO IV

1st sem					Second Year							
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	
	PE 3 (PATHFit 3)	Menu of Dance	0 2	(2)	PE 2 (PATHFit 2)		PE 4 (PATHFit 4)	Sports	0 2	(2)	PE 2 (PATHFit 2)	
	SSP 04	The Entrepreneurial Mind	3 0	3	None		ME 117	Machine Shop Theory	0 6	2	ME 116	
	GE 2	Readings in Philippine History	3 0	3	None		ME 104	Fluid Mechanics	3 0	3	ME 108 Engg 103	
	ME 116	Workshop Theory and Practice	0 3	1	None		ME 109	Thermodynamics 2	3 0	3	ME 108	
	ME 108	Thermodynamics 1	3 0	3	Eng'g 302 Eng'g 306		Eng'g. 104	Dynamics of Rigid Bodies	2 0	2	Eng'g. 103	
	Eng'g. 103	Statics of Rigid Bodies	3 0	3	Eng'g 302 Eng'g 306		Eng'g. 105	Mechanics of Deformable Bodies	3 0	3	Eng'g. 103	
	Eng'g. 106	Engineering Economics	3 0	3	Eng'g 302		Eng'g. 107	Engineering Management	2 0	2	None	
	Eng'g. 201	Basic Electrical Engineering	2 3	3	Eng'g 302 Eng'g 306		Eng'g. 202	Basic Electronics	2 3	3	Eng'g 201	
							Eng'g. 203	DC & AC Machinery	2 3	3	Eng'g. 201	
							ME 305	Integrated Mathematics	3 0	3	Eng'g 303 & 304 Engg 103 & 106	
<b>TOTAL</b>			<b>17</b>	<b>8</b>	<b>21</b>	<b>TOTAL</b>			<b>20</b>	<b>14</b>	<b>26</b>	

Mid Year					
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.
	ME 111	Heat Transfer	2 0	2	ME 109
	ME 105	Machine Elements	2 3	3	Eng'g. 104
	Eng'g. 102	Computer-Aided Drafting	0 3	1	Eng'g. 101
<b>TOTAL</b>			<b>4</b>	<b>6</b>	<b>6</b>

1st sem					Third Year							
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	
	ME 102	Advanced Mathematics for ME	3 0	3	Eng'g 303		GEM	Life & Works of Jose Rizal	3 0	3	None	
	ME 122	Vibration Engineering	2 0	2	Eng'g 303		MST 02	Living in the IT Era	3 0	3	None	
	ME 112	ME Laboratory 1	0 3	1	ME 109		ME 121	Air conditioning & Ventilation Systems	3 0	3	ME 120	
	ME 110	Combustion Engineering	2 0	2	ME 109		ME 123	Computer Applications for ME	0 3	1	ME 201 Eng'g 110	
	ME 119	Fluid Machineries	3 0	3	ME 104		ME 202	Machine Design 2	2 3	3	ME 201	
	ME 120	Refrigeration Systems	3 0	3	ME 111		Eng'g 204	Technopreneurship 101	3 0	3	Eng'g 106	
	ME 118	Control Engineering	2 3	3	Eng'g 202		ME Elec 2	ME Elective 2 (*)	1 3	2	All major courses from 1st yr to 2nd yr	
	ME 201	Machine Design 1	3 0	3	ME 105 Engg 105		ME 103	Methods of Research for ME	1 0	1	3rd Yr. Stdg.	
	ME 107	Materials Science & Engineering for ME	2 3	3	Eng'g 305, Eng'g 105		ME 115	Basic Occupational Safety and Health	3 0	3	4thYr. Stdg.	
	ME Elec 1	ME Elective 1 (*)	1 3	2	All major courses from 1st yr to 2nd yr							
<b>TOTAL</b>			<b>21</b>	<b>12</b>	<b>25</b>	<b>TOTAL</b>			<b>19</b>	<b>9</b>	<b>22</b>	

Mid Year					
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.
	ME 401	ME OJT (240 hrs)	0 6	2	All major courses from 1st yr to 3rd yr
<b>TOTAL</b>			<b>0</b>	<b>6</b>	<b>2</b>

1st sem					Fourth Year							
Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	Grade	Course	Descriptive Title	Hr/wk Lect Lab	Units	Prereq.	
	MST 01	Environmental Science	3 0	3	None		ME 307	Integrated Plant Design	3 0	3	ME 204, ME 205 - C	
	ME 206	ME Laws, Ethics, Codes & Standards	2 0	2	GE8, 3rd Yr. Stdg.		ME 205	Power Plant Design w/ Renewable Energy	3 3	4	ME 119, ME 121	
	ME 113	ME Laboratory 2	0 6	2	ME 119, ME 112		ME 203	ME Laboratory 3	0 6	2	ME 113	
	ME 204	Industrial Plant Engineering	3 3	4	ME 121, ME 114-C		ME 208	ME Project Study 2	0 3	1	ME 207	
	ME 114	Mfg. & Ind'l Processes	1 0	1	All major courses from 1st yr to 3rd yr							
	ME 207	ME Project Study 1	0 3	1	ME 103, ME 121, ME 202							
	ME 306	Integrated Machine Design	3 0	3	ME 305, ME 202							
<b>TOTAL</b>			<b>12</b>	<b>12</b>	<b>16</b>	<b>TOTAL</b>			<b>6</b>	<b>12</b>	<b>10</b>	

Total Lect Hrs	139
Total Lab Hrs	101
Total Units	182

\* ME Elective Courses [ Choose any two (2) ]  
 ME 301 - Energy Management in Buildings  
 ME 302 - Solar Energy and Wind Energy Utilization  
 ME 303 - Micro-Hydro Electric Power  
 ME 304 - Nuclear Energy Resources (Pure Lecture)

Name of Student \_\_\_\_\_  
 \_\_\_\_\_  
 Dean/Program Chair/ Date \_\_\_\_\_

Evaluated by / Date \_\_\_\_\_