



College of Engineering
Main, Lapu-Lapu Mandaue
Bachelor of Science in Mechanical Engineering (BSME)
 CMO No. 97, Series of 2017
 Effective School Year 2024-2025

Name: _____
 ID Number: _____

Date Started/First Enrolled: _____
 Expected Date of Graduation: _____

FIRST YEAR						
	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1st Semester	SOCIO 101	The Contemporary World	3	0	3	
	HUM 101	Art Appreciation	3	0	3	
	MATH 100E	College Mathematics	3	0	3	
	MATH 101E	Mathematics in the Modern World	3	0	3	
	EMATH 111	Calculus 1	3	0	3	EBR 101(For Non-Stem Only)
	BES 101	Engineering Drawing	0	1	1	
	ME 101	Mechanical Engineering Orientation	1	0	1	
	CHEM 111	Chemistry for Engineers	3	1	4	EBR 102 (For Non-Stem Only)
	PE 101	Movement Competency Training (PATHFit 1)	2	0	2	
	NSTP 101	National Service Training Program 1	3	0	3	
Total					26	
2nd Semester	SOCIO 102	Gender and Society	3	0	3	SOCIO 101
	LIT 101	Literature of the World	3	0	3	
	HUM 102	Philippine Popular Culture	3	0	3	HUM 101
	STS 101	Science, Technology and Society	3	0	3	
	PHILO 101	Ethics	3	0	3	
	EMATH 121	Calculus 2	3	0	3	EMATH 111
	PHYS 121	Physics for Engineers	3	1	4	EMATH 111, EBR 103 (For Non-Stem Only)
	BES 102A	Computer-Aided Drafting	0	1	1	BES 101
	PE 102	Exercise-based Fitness Activities (PATHFit 2)	2	0	2	PE 101
	NSTP 102	National Service Training Program 2	3	0	3	NSTP 101
Total					28	

Engineering Bridging Courses for Non-STEM:			
EBR 101 – Pre-Calculus	3	0	3
EBR 102 – General Chemistry	2	1	3
EBR 103 – General Physics	2	1	3

SECOND YEAR						
	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1st Semester	ENGL 101	Purposive Communication	3	0	3	
	BES 103	Computer Programming	0	2	2	
	EMATH 211	Differential Equations	3	0	3	EMATH 121
	EMATH 122	Engineering Data Analysis	3	0	3	EMATH 111
	EE 211C	Electrical Circuits 1 for ME	2	1	3	EMATH 121, PHYS 121
	MECH 211A	Statics of Rigid Bodies	3	0	3	PHYS 121
	AS 101	Thermodynamics 1	3	0	3	PHYS 121
	METVET 111A	Workshop Theory and Practice	0	1	1	
	PE 103	Sports and Dance (PATHFit 3)	2	0	2	PE 101, PE 102
Total					23	
2nd Semester	RIZAL 101	Life and Works of Dr. Jose Rizal	3	0	3	
	EMATH 222B	Advanced Mathematics for ME	3	0	3	EMATH 211
	BES 104	Engineering Economics	3	0	3	
	ECE 212C	Basic Electronics	2	1	3	EE 211C
	AS 103	DC and AC Machinery	2	1	3	EE 211C
	MECH 223	Dynamics of Rigid Bodies	2	0	2	MECH 211A
	MECH 222	Fluid Mechanics	3	0	3	AS 101
	AS 102	Thermodynamics 2	3	0	3	AS 101
	METVET 121	Machine Shop Theory	0	2	2	METVET 111
PE 104	Sports, Outdoor & Adventure Activities (PATHFit 4)	2	0	2	PE 101, PE 102	
Total					27	

THIRD YEAR

	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1 st Semester	HIST 101	Readings in Philippine History	3	0	3	
	PSYCH 101	Understanding the Self	3	0	3	
	MECH 224C	Mechanics of Deformable Bodies	3	0	3	MECH 211A
	MECH 311	Fluid Machinery	3	0	3	MECH 222
	RES 101C	Methods of Research for ME	1	0	1	ENGL 101
	ME 311	Heat Transfer	2	0	2	AS 102
	ME 312D	Machine Elements	2	2	4	MECH 211A, MECH 223
	ME 313	Vibration Engineering	2	0	2	EMATH 211
	ME 314B	Computer Applications for ME	1	0	1	BES 103
	ME 315B	Mechanical Engineering Lab 1	0	1	1	AS 102
Total					23	
2 nd Semester	BES 105	Basic Occupational Safety and Health	3	0	3	ME 315B
	ME 323C	Refrigeration System	2	1	3	ME 311
	ME 322B	Combustion Engineering	2	0	2	AS 102
	ME 324	ME Project Study 1	0	1	1	RES 101C
	ME 325	Control Engineering	2	1	3	ECE 212C
	ME 326	Material Science and Engineering for ME	2	1	3	MECH 224C/ CHEM 111
	ME 327	Mechanical Engineering Lab 2	0	2	2	ME 315B
	ME 328	Power Plant Design with Renewable Energy	3	1	4	ME 322B
	ME 329	Machine Design 1	2	1	3	MECH 224C/ ME 327/ ME 312D
	Total					24
Summer	ME 410	On-The-Job Training	3	1	4	BES 105/ ME 327
	Total					4

FOURTH YEAR

	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1 st Semester	BES 107	Engineering Management	2	0	2	
	ME 411	Manufacturing & Industrial Processes with Plant Visits	1	1	2	
	ME 412C	Air Conditioning and Ventilation Systems	2	1	3	ME 323C
	ME 416B	ME Project Study 2	0	1	1	ME 324
	ME 417A	ME Laws, Ethics, Contracts, Codes & Standards	2	0	2	ME 410
	ME 413C	Machine Design 2	2	1	3	ME 329
	ME 418C	Industrial Plant Engineering	3	1	4	ME 328
Total					17	
2 nd Semester	ME 421A	Mechanical Engineering Lab 3	0	2	2	ME 327
	ME EC 1	Enhancement 1	0	2	2	GRADUATING
	ME EC 2	Enhancement 2	0	2	2	GRADUATING
	ME EC 3	Enhancement 3	0	2	2	GRADUATING
	ME FR EL	Mechanical Engineering Elective	3	1	4	
	TECHNO 101	Technopreneurship	3	0	3	
Total					15	

I. TECHNICAL COURSES:

A. Mathematics	12	units
B. Natural/Physical Sciences	8	units
C. Basic Engineering Sciences	20	units
D. Allied Courses	9	units
E. Fundamental ME Courses	51	units
F. Professional ME Courses	20	units
G. Elective Courses	4	units
H. Practicum	4	units
SUB-TOTAL	128	units

II. NON-TECHNICAL COURSES:

A. General Education Courses	50	units
SUB-TOTAL	50	units

III. INSTITUTIONAL, ENGINEERING BRIDGING & OTHER COURSES:

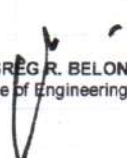
A. Institutional Course	3	units
B. Engineering Bridging Courses	9	units
C. Other Courses	6	units
SUB-TOTAL	18	units


GRAND TOTAL: 187 units (STEM Enrollees)
 GRAND TOTAL: 196 units (Non-STEM Enrollees)

LIST OF ELECTIVES:

- ME ELECT IA Heating, Ventilating, Air Conditioning & Refrigeration
- ME ELECT 1B Mechatronics Engineering
- ME ELECT 2A Automotive Engineering
- ME ELECT 2B Computers & Computational Science
- ME ELECT 3A Energy Engineering & Management
- ME ELECT 3B Manufacturing Engineering


 DR. RODEL T. NAVAL
 BSME Chairman, UC Main


 ENGR. GREG R. BELONGILOT
 Dean, College of Engineering, UC Main


 ENGR. ROLAND B. FERNANDEZ
 Dean, College of Engineering, UC Lapu-Lapu Mandaue


 DR. YOLANDA C. SAYSON
 VC for Academic Affairs/ Curriculum Director