



College of Engineering
 Main, Lapu-Lapu Mandaue
Bachelor of Science in Industrial Engineering (BSIE)
 CMO No. 96, 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	
	ENGL 101	Purposive Communication	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)
	CHEM 111	Chemistry for Engineers	3	1	4	EBR 102 (For Non-Stem Only)
	BES 101	Engineering Drawing	0	1	1	
	IE 101	Orientation to IE	1	0	1	
	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
	RIZAL 101	Life and Works of Dr. Jose Rizal	3	0	3	
	STS 101	Science, Technology and Society	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
	IE 102	Principles of Economics	3	0	3	
	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					25

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	HUM 101	Art Appreciation	3	0	3	
	EMATH 211	Differential Equations	3	0	3	EMATH 121
	BES 103	Computer Programming	0	2	2	
	BES 104	Engineering Economics	3	0	3	2nd Year Standing
	MECH 211	Engineering Mechanics	3	0	3	PHYS 121
	IE 210	Financial Accounting	3	0	3	
	IE 211	Industrial Materials and Processes	2	1	3	CHEM 111, PHYS 121
	IE 212	Statistical Analysis for IE 1	3	0	3	
	IE 213	Industrial Organization and Management	3	0	3	2nd Year Standing
	PE 103	Sports and Dance (PATHFit 3)	2	0	2	PE 101, PE 102
Total					28	
2nd Semester	HUM 102	Philippine Popular Culture	3	0	3	HUM 101
	EMATH 222C	Advanced Mathematics for IE	3	0	3	EMATH 211
	BES 105	Basic Occupational Safety and Health	3	0	3	2nd Year Standing
	IE 220	Statistical Analysis for IE 2	3	0	3	IE 212
	IE 221	Work Study and Measurement	3	1	4	IE 211, IE 212, IE 213
	IE 222	Managerial Accounting	3	0	3	IE 210
	PE 104	Sports, Outdoor & Adventure Activities (PATHFit 4)	2	0	2	PE 101, PE 102
	Total					21

THIRD YEAR

1st Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	HIST 101	Readings in Philippine History	3	0	3	
	RES 101D	Methods of Research for IE	3	0	3	IE 212
	AS 101	Thermodynamics 1	3	0	3	PHYS 121
	BES 106	Environmental Science and Engineering	3	0	3	CHEM 111
	IE 311	Operations Research 1	3	0	3	EMATH 222B
	IE 312	Quality Management System	3	0	3	IE 220, IE 221
	IE 313	Ergonomics 1	2	1	3	IE 221
	IE EL 1	Lean Six Sigma	3	0	3	3rd Year Standing
Total					24	

2nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	PHILO 101	Ethics	3	0	3	
	EE 211B	Elementary Electrical Engineering	3	0	3	PHYS 121
	IE 322	Operations Research 2	3	0	3	IE 311
	IE 323	Operations Management	3	1	4	IE 311, IE 312
	IE 324	Ergonomics 2	2	1	3	IE 313
	IE EL 2	Marketing System	3	0	3	IE 322, IE 323, IE 324
Total					19	

Summer	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	IE 331	IE Industry Immersion	3	1	4	IE 322, IE 323, IE 324
Total					4	

FOURTH YEAR

1st Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	PSYCH 101	Understanding the Self	3	0	3	
	IE 411	Project Feasibility	2	1	3	IE 331, IE EL 2
	IE 412	Supply Chain Management	3	0	3	IE 323
	IE 413	Information System	3	0	3	BES 103 / 4th Year Standing
	IE 414	Systems Engineering	3	0	3	4th Year Standing
	IE EC 1	Enhancement Course 1	0	1	1	IE 411
Total					16	

2nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	LIT 101	Literature of the World	3	0	3	
	TECHNO 101	Technopreneurship	3	0	3	IE 421
	IE 421	IE Capstone Project	1	2	3	IE 411
	IE 422	Contracts, Ethics, Laws	3	0	3	PHILO 101
	IE EC 2	Enhancement Course 2	0	1	1	IE EC 1
IE EL 3A	Project Management	3	0	3	4th Year Standing	
Total					16	

I. TECHNICAL COURSES:

A. Mathematics	9	units
B. Natural/Physical Sciences	8	units
C. Basic Engineering Sciences	15	units
D. Allied Courses	18	units
E. Professional Courses	57	units
F. Specialized Courses	9	units
SUB-TOTAL	116	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	10	units
SUB-TOTAL	22	units

GRAND TOTAL:	179	units (STEM Enrollees)
GRAND TOTAL:	188	units (Non-STEM Enrollees)

IE ELECTIVES:

- Lean Six Sigma
- Marketing System
- Project Management

Gliceria A. Lipura
ENGR. GLICERIA A. LIPURA
BSIE Chairman, UC Main

Teresito M. Iliga
ENGR. TERESITA M. ILIGA
BSIE Chairman, UC Lapu-Lapu Mandaue

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

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

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