



College of Engineering
Main Campus

Bachelor of Science in Civil Engineering (BSCE)

CMO No. 92, Series of 2017
Effective School Year 2024-2025
Guide for Non-STEM Students

Name: _____
ID Number: _____

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

FIRST YEAR

FIRST YEAR						
	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1 st Semester	STS 101	Science, Technology and Society	3	0	3	
	LIT 101	Literature of the World	3	0	3	
	MATH 100E	College Mathematics	3	0	3	
	MATH 101E	Mathematics in the Modern World	3	0	3	
	EBR 101	Pre-Calculus	3	0	3	
	EBR 102	General Chemistry	2	1	3	
	EBR 103	General Physics	2	1	3	
	PE 101	Movement Competency Training (PATHFit 1)	2	0	2	
	NSTP 101	National Services Training Program 1	3	0	3	
	CE 111B	Engineering Drawings and Plans 1	0	1	1	
Total					27	
2 nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	SOCIO 101	The Contemporary World	3	0	3	
	ENGL 101	Purposive Communication	3	0	3	
	HUM 101	Art Appreciation	3	0	3	
	BES 103	Computer Programming	0	2	2	
	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)
	PE 102	Exercise-based Fitness Activities (PATHFit 2)	2	0	2	PE 101
NSTP 102	National Services Training Program 2	3	0	3	NSTP 101	
Total					23	
Summer	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	CE 101	Civil Engineering Orientation	2	0	2	
	EMATH 121	Calculus 2	3	0	3	EMATH 111
	PHYS 121	Physics for Engineers	3	1	4	EMATH 111/ EMATH 121/ EBR 103 (For Non-Stem Only)
Total					9	

SECOND YEAR

SECOND YEAR						
	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
1 st Semester	HUM 102	Philippine Popular Culture	3	0	3	HUM 101
	PHILO 101	Ethics	3	0	3	
	SOCIO 102	Gender and Society	3	0	3	SOCIO 101
	RIZAL 101	Life & Works of Dr. Jose Rizal	3	0	3	
	EMATH 211	Differential Equations	3	0	3	EMATH 121
	BES 102A	Computer-Aided Drafting	0	1	1	CE 111B
	BES 104	Engineering Economics	3	0	3	EMATH 121
	MECH 211A	Statics of Rigid Bodies	3	0	3	PHYS 121
	CE 211C	Fundamentals of Surveying	3	1	4	CE 111B, MATH 100E
	PE 103	Sports and Dance (PATHFit 3)	2	0	2	PE 101, PE 102
Total					28	
2 nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	PSYCH 101	Understanding the Self	3	0	3	
	HIST 101	Readings in Philippine History	3	0	3	
	EMATH 122	Engineering Data Analysis	3	0	3	EMATH 111
	MECH 223	Dynamics of Rigid Bodies	2	0	2	MECH 211A/ MECH 224B
	MECH 224B	Mechanics of Deformable Bodies	5	0	5	MECH 211A/ MECH 223
	CE 221B	Engineering Utilities 1	3	0	3	PHYS 121
	CE 222C	Building Systems Design	2	1	3	CE 111B
PE 104	Sports, Outdoor & Adventure Activities (PATHFit 4)	2	0	2	PE 101, PE 102	
Total					24	

THIRD YEAR

1 st Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	EMATH 311A	Numerical Solutions to CE Problems	2	1	3	EMATH 211
	BES 107	Engineering Management	2	0	2	
	GEOL 101	Geology for Civil Engineers	2	0	2	CHEM 111
	CE 311C	Hydraulics	4	1	5	MECH 224B, MECH 223
	CE 312A	Structural Theory	3	2	5	MECH 224B
	CE 313C	Construction Materials & Testing	2	1	3	MECH 224B
	CE 314	Engineering Utilities 2	3	0	3	PHYS 121
Total					23	
2 nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	TECHNO 101	Technopreneurship	3	0	3	
	CE 321C	Highway and Railroad Engineering	3	0	3	CE 211C
	CE 322C	Geotechnical Engineering 1	3	2	5	MECH 224B, GEOL 101
	CE 323C	Quantity Surveying	1	1	2	CE 222C
	CE 324C	Principles of Steel Design	2	1	3	CE 312A
	CE 325C	Principles of Reinforced/Pre-stressed Concrete	3	1	4	CE 312A
Total					20	
Summer	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	CE 327	On-The-Job Training (240 hours)	3	1	4	CE 323C, CE 325C
Total					4	

FOURTH YEAR

1 st Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	CE 410	Construction Methods & Project Management	3	1	4	CE 323C
	CE 412C	Principles of Transportation Engineering	3	0	3	CE 321C
	CE 413	CE Project 1	1	1	2	4TH YR STANDING
	CE 414	Professional Course - Specialized 1	3	0	3	CE 325C, CE 312A
	CE 415C	Professional Course - Specialized 2	3	0	3	CE 322C
	CE 416B	Hydrology	2	0	2	CE 311C, EMATH 121
	CE 417	CE Laws, Ethics & Contracts	2	0	2	4TH YR STANDING
Total					19	
2 nd Semester	Course Code	Descriptive Title	Lec Units	Lab Units	Total Units	Pre / Co Requisite
	CE 422C	CE Project 2	1	1	2	CE 413
	CE 423	Professional Course - Specialized 3	3	0	3	CE 312A
	CE 424	Professional Course - Specialized 4	3	0	3	CE 414
	CE 425B	Professional Course - Specialized 5	3	1	4	GRADUATING
	CE EC 1	Enhancement Course 1	0	2	2	GRADUATING
	CE EC 2	Enhancement Course 2	0	2	2	GRADUATING
	CE EC 3	Enhancement Course 3	0	2	2	GRADUATING
Total					18	

I. TECHNICAL COURSES:

A. Mathematics	15	units
B. Natural/Physical Sciences	10	units
C. Basic Engineering Sciences	24	units
D. Allied Courses	6	units
E. Professional Courses	52	units
F. Specialized Courses	16	units
G. On-the-Job Training	<u>4</u>	<u>units</u>
SUB-TOTAL	127	units

II. NON-TECHNICAL COURSES:

A. General Education Courses	<u>50</u>	<u>units</u>
SUB-TOTAL	50	units

III. INSTITUTIONAL, ENGINEERING BRIDGING & OTHER COURSES:

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

GRAND TOTAL: **186 units (STEM Enrollees)**
 GRAND TOTAL: **195 units (Non-STEM Enrollees)**

PROFESSIONAL COURSE-SPECIALIZED:

- A. Engineering Management
- B. Geotechnical Engineering
- C. Structural Engineering
- D. Transportation Engineering
- E. Water Resource Engineering

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