



BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Effective 1<sup>st</sup> Semester, SY 2023-2024

Per CMO No. 92, s. 2017 and BOT Referendum No. 16, s. 2023

FIRST YEAR

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
BES 111	Civil Engineering Orientation	2	0	2	None	None
EM 110	Fundamentals of Engineering Mathematics	5	0	5	None	EM 111
EM 111	Calculus 1 (Differential Calculus)	4	0	4	None	EM 110
NS 111	Chemistry for Engineers	3	1	4	None	None
CTW 111	Civil Engineering Works	2	1	3	None	None
GE 1	Understanding the Self	3	0	3	None	None
PE 1	Physical Activities toward Health and Fitness 1 (PATHFit 1): Movement Competency Training	2	0	2	None	None
NSTP 1	National Service Training Program 1 (ROTC, LTS, CWTS)	3	0	3	None	None
TOTAL		24	2	26		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
BES 122	Engineering Drawing and Plans	1	2	3	None	None
BES 123	Computer Fundamentals and Programming	0	2	2	None	None
EM 122	Calculus 2 (Integral Calculus)	4	0	4	EM 111, EM 110	None
NS 122	Physics for Engineers	3	1	4	EM 111, EM 110	EM 122
CTW 122	Civil Engineering Works 2	2	1	3	CTW 111	None
GE 4	Mathematics in the Modern World	3	0	3	None	None
PE 2	Physical Activities toward Health and Fitness 2 (PATHFit 2): Exercise-Based Fitness Activities	2	0	2	PE 1	None
NSTP 2	National Service Training Program 2 (ROTC, LTS, CWTS)	3	0	3	NSTP 1	None
TOTAL		18	6	24		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
GE 2	Readings in Philippine History	3	0	3	None	None
GE 3	The Contemporary World	3	0	3	None	None
GE 6	Art Appreciation	3	0	3	None	None
TOTAL		9	0	9		



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**SECOND YEAR**

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
BES 214	Engineering Economics	3	0	3	2 <sup>nd</sup> Year Standing	None
EM 213	Differential Equations	3	0	3	EM 122	None
CAD 1	Computer-Aided Drafting	0	2	2	BES 122, BES 123	None
MECH 211	Statics of Rigid Bodies	3	0	3	EM 122, NS 122	None
CE 211	Fundamentals of Surveying	3	2	5	BES 122	None
GE 5	Purposive Communication	3	0	3	None	None
GE 9	The Life and Works of Rizal	3	0	3	None	None
PE 3	Physical Activities toward Health and Fitness 3 (PATHFit 3): Sports	2	0	2	PE 2	None
TOTAL		20	4	24		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
EM 224	Engineering Data Analysis	3	0	3	EM 111	None
NS 223	Geology for Civil Engineers	3	0	3	NS 111	None
MECH 222	Dynamics of Rigid Bodies	2	0	2	MECH 211	MECH 223
MECH 223	Mechanics of Deformable Bodies	5	0	5	MECH 211	MECH 222
CE 221	Construction Materials and Testing	2	1	3	None	MECH 223
EU 311	Engineering Utilities 1	3	0	3	NS 122	None
EM 315	Numerical Solutions to CE Problems	2	1	3	EM 213	None
GE 7	Science, Technology and Society	3	0	3	None	None
PE 4	Physical Activities toward Health and Fitness 4 (PATHFit 4): Dance	2	0	2	PE 3	None
TOTAL		25	2	27		

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
GE ELECT 1	Environmental Science	3	0	3	None	None
GE ELECT 2	People and the Earth's Ecosystem	3	0	3	None	None
GE ELECT 3	Living in the IT Era	3	0	3	None	None
TOTAL		9	0	9		



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**THIRD YEAR**

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
BES 315	Engineering Management	2	0	2	3 <sup>rd</sup> year standing	None
BES 316	Safety and Disaster Risk Reduction Management	3	0	3	3 <sup>rd</sup> year standing	None
CE 315	Hydrology	3	0	3	3 <sup>rd</sup> Year Standing	None
CE 311	Structural Theory	3	2	5	MECH 223	None
CE 312	Building System Design	2	1	3	BES 122	None
CE 313	Highway and Railroad Engineering	3	0	3	CE 211	None
EU 312	Engineering Utilities 2	3	0	3	NS 122	None
CE 314	Geotechnical Engineering 1 (Soil Mechanics)	3	1	4	NS 223, MECH 223	None
TOTAL		22	4	26		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CEP 321	CE Project 1	1	1	2	3 <sup>rd</sup> Year Standing	None
CE 323	Principles of Reinforced/ Pre-Stressed Concrete	3	2	5	CE 311	None
BES 317	Technopreneurship	3	0	3	3 <sup>rd</sup> Year Standing	None
CE 325	Hydraulics	4	1	5	3 <sup>rd</sup> Year Standing	None
CE 322	Quantity Surveying	2	1	3	CE 312	None
CE 326	CE Laws, Ethics and Contracts	3	0	3	3 <sup>rd</sup> Year Standing	None
TOTAL		16	5	21		

*Note: 3<sup>rd</sup> Year Standing means that a student is a Regular Third Year Student*

MIDYEAR TERM		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
OJT	On-The-Job-Training (360 hours)	0	6	6	4 <sup>th</sup> Year Standing	None

*NOTE: OJT will only be allowed if the student has passed all subjects from First Year to Third Year*



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**FOURTH YEAR**

FIRST SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
CE 411	Principles of Steel Design	2	2	4	CE 311	None
CE 415	Principles of Transportation Engineering	3	0	3	CE 313	None
CEP 412	CE Project 2	1	1	2	CEP 321	None
SE 411	Specialized 1 (Computer Software in Structural Analysis)	3	0	3	4 <sup>th</sup> Year Standing	None
SE 412	Specialized 2 (Earthquake Engineering)	3	0	3	4 <sup>th</sup> Year Standing	None
SE 425	Specialized 5 (Foundation and Retaining Wall Design)	3	0	3	4 <sup>th</sup> Year Standing	None
CE 422	Construction Methods and Project Management	3	1	4	4 <sup>th</sup> Year Standing	None
GE 8	Ethics	3	0	3	None	None
TOTAL		21	4	25		

SECOND SEMESTER		No. of Units		Total Units	Pre/Co-Requisite(s)	
Code	Descriptive Title	Lec	Lab			
SE 423	Specialized 3 (Design of Steel Structures)	3	0	3	4 <sup>th</sup> Year Standing	None
SE 424	Specialized 4 (Reinforced Concrete Design)	3	0	3	4 <sup>th</sup> Year Standing	None
ER 421	CE Review 1(Math, Surveying & Transportation)	6	0	6	4 <sup>th</sup> Year Standing	None
ER 422	CE Review 2 (Hydraulics & Geotechnical Engineering)	6	0	6	4 <sup>th</sup> Year Standing	None
ER 423	CE Review 3 (Principles of Engineering Design and Construction)	6	0	6	4 <sup>th</sup> Year Standing	None
TOTAL		24	0	24		

*Note: 4<sup>th</sup> Year Standing means that a student is a Regular Fourth Year Student*

**SUMMARY OF UNITS PER SEMESTER**

Year	First Semester	Second Semester	Midyear Term	Total Units
First Year	26	24	9	59
Second Year	24	27	9	60
Third Year	26	21	6	53
Fourth Year	25	24		49
TOTAL				221 units

**SUMMARY**

I. General Education Courses	24 units
II. GEC Elective/Mandated Courses	12 units
III. PE 1,2,3 & 4 and NSTP 1& 2	14 units
IV. MAJOR COURSES	102 units
V. PROFESSIONAL COURSES	69 units
TOTAL NO. OF UNITS	221 units

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