

BS in Civil Engineering

(Per CMO 29, s. 2007)

Subject	Description	Units	Pre-requisites
First Year, 1st Semester			
Math 1	College Algebra	3	None
Math 2A	Plane and Spherical Trigonometry	3	None
Chemistry 1B	General Chemistry	3	None
Chemistry 1BL	General Chemistry (Laboratory)	1	None
Engineering Science 1	Engineering Drawing	1	None
Engineering Science 1D	Engineering Drawing (drafting)	1	None
English 1	Study and Thinking Skills in English	3	None
Filipino 1	Sining ng Pakikipagtalastasan sa Akademyang Pilipino	3	None
English Plus *	Critical and Grammatical Structures	-	None
Physical Education 1	Physical Fitness Testing	2	None
NSTP 1	CWTS/LTS/ROTC	3	None
First Year, 2nd Semester			
Math 1B	Advanced Algebra	2	Math 1
Math 3B	Analytic Geometry	3	Math 1 & Math 2A
Math 3C	Solid Mensuration	3	Math 1 & Math 2A
Humanities 1	Art Appreciation	3	None
English 2	Writing in the Discipline	3	English 1
Filipino 2	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	Filipino 1
Physical Education 2	Rhythmic Activities	2	Physical Education 1
NSTP 2	CWTS/LTS/ROTC	3	NSTP 1
Second Year, 1st Semester			
Math 4B	Differential Calculus	5	Math 3B, Math 3C, Math 1B
Physics 1B	Mechanics and Heat (Lecture)	3	Math 1 and Math 2A
Physics 1BL	Mechanics and Heat (Laboratory)	1	Taken with Physics 1B
English 3	Technical Communication	3	English 1 & 2
Humanities 2	Philosophy of Human Person	3	None
Social Science 1	Philippine Government and Constitution	3	None
Engineering Science 2	Computer Fundamentals and Programming (Lecture)	1	2 nd year standing

Engineering Science 2L	Computer Fundamentals and Programming (Laboratory)	2	Taken with ES 2
Physical Education 3	Individual/Dual Sports and Games	2	Physical Education 2
Second Year, 2nd Semester			
Math 4C	Integral Calculus	5	Math 4B
Physics 2	Electricity, Sound, Light and Magnetism (Lecture)	3	Physics 1B
Physics 2L	Electricity, Sound, Light and Magnetism (Laboratory)	1	Taken with Physics 2
Humanities 3	Philippine Literature	3	Humanities 2
Social Science 2	General Psychology with HIV AIDS Education, Drug Education, Prevention and Control	3	Social Science 1
Rizal 1	Life and Works of Rizal	3	None
Physical Education 4	Team Sports and Recreational Activities	2	Physical Education 3
Math 3	Probability and Statistics	3	Math 1 & Math 2A
Third Year, 1st Semester			
Math 5A	Differential Equations	3	Math 4C
Engineering Science 3	Statics of Rigid Bodies	3	Physics 1, Math 4C
Allied Course 1	Basic Electrical Engineering	3	Physics 2, Math 4C
Civil Engineering 1	Surveying 1 (Elementary and Higher)	3	Math 1B, Math 2A, ES 1/1D
Civil Engineering 1 F	Surveying 1 (Elementary and Higher) - Field	2	Taken with CE 1
Social Science 3	Sociology and Anthropology	3	Social Science 2
Engineering Science 4	Engineering Economy	3	Third year standing
Third Year, 2nd Semester			
Civil Engineering 3	Advanced Engineering Mathematics for Civil Engineering	3	Math 5A
Engineering Science 5	Dynamics of Rigid Bodies	3	ES 3
Engineering Science 6	Mechanics of Deformable Bodies	5	ES 3
Civil Engineering 2	Surveying 2	3	CE 1/1F
Civil Engineering 2 F	Surveying 2 (Field)	1	Taken with CE 2
Engineering Science 7	Environmental Engineering	2	Chemistry 1B/1BL
Engineering Science 8	Safety Management	1	Third year standing
Social Science 4	Basic Economics with Land Reform and Taxation	3	Social Science 3
Allied Course 2	Basic Mechanical Engineering	3	Math 4C, Physics 2

Fourth Year, 1st Semester

Civil Engineering 4	Structural Theory I	3	ES 6
Civil Engineering 4D	Structural Theory I (Laboratory)	1	Taken with CE 4
Civil Engineering 5	Building Design I	1	ES 1/1D
Civil Engineering 5D	Building Design I (Laboratory)	1	Taken with CE 5
Civil Engineering 7	Mechanics of Fluids	3	ES 5, math 5A
Civil Engineering 7L	Mechanics of Fluids (Laboratory)	1	Taken with CE 7
Engineering Science 9	Engineering Management	3	4 th Year Standing
Civil Engineering 6	Geotechnical Engineering I (Soil Mechanics)	3	ES 6
Civil Engineering 6L	Geotechnical Engineering I (Soil Mechanics) Lab	1	Taken with CE 6
Civil Engineering 8	Highway Engineering	3	CE 2/2F
Civil Engineering 9	Construction Materials and Testing	3	ES 6

Fourth Year, 2nd Semester

Civil Engineering 10	Structural Theory II	3	CE 4/4D
Civil Engineering 10 D	Structural Theory II (Laboratory)	1	Taken with CE 10
Civil Engineering 11	Building Design II	1	CE 5/5D
Civil Engineering 11 D	Building Design II (Laboratory)	1	Taken with CE 11
Civil Engineering 12	Hydraulics	3	CE 7/7L
Civil Engineering 12 L	Hydraulics (Laboratory)	1	Taken with CE 12
Civil Engineering 13	Hydrology	3	CE 7/7L
Civil Engineering 14	Structural Design I (Reinforced Concrete)	3	CE 4/4D
Civil Engineering 14D	Structural Design I (Reinforced Concrete) Lab	2	Taken with CE 14
Engineering Science 10	Computer-Aided Drafting	1	4 th Year Standing
Engineering Science 10L	Computer-Aided Drafting (Laboratory)	1	Taken with ES10
TE 1	Technical Elective I	3	4 th Year Standing

Fifth Year, 1st Semester

Civil Engineering 15	Structural Design II (Timber Design)	1	CE 10/10D
Civil Engineering 15D	Structural Design II (Timber Design) Laboratory	1	Taken with CE 15
Civil Engineering 16	Structural Design III (Steel Design)	3	CE 10/10D
Civil Engineering 17	Geotechnical Engineering II (Foundation Engineering)	3	CE 6/6L
Civil Engineering 17L	Geotechnical Engineering II Laboratory	1	Taken with CE 17
Civil Engineering 18	Transportation Engineering	3	CE 8
Civil Engineering 19	Construction Methods and Project Management	3	5 th Year Standing

Civil Engineering 19D	Construction Method and Project Mgt. (Laboratory)	1	Taken with CE 19
TE 2	Technical Elective 2	3	5 th Year Standing
Fifth Year, 2nd Semester			
Civil Engineering 20	Water Resources Engineering	3	CE 12/12L
Civil Engineering 21	CE Laws, Contracts, Specifications & Ethics	3	5 th Year Standing
Civil Engineering 21	Civil Engineering Projects	1	5 th Year Standing
Civil Engineering 21D	Civil Engineering Projects (Laboratory)	2	Taken with CE 21
Civil Engineering 22	CE Educational Tour and Seminar	1	5 th Year Standing
TE 3	Technical Elective 3	3	CE 14/14D
TE 4	Technical Elective 4	3	CE 14/14D

** To be taken by those who did not pass the English Proficiency Test*