



BACHELOR OF SCIENCE IN CIVIL ENGINEERING
 Effective School Year 2018-2019 (v3)

FIRST YEAR									
1st Semester					2nd Semester				
Subject Code & Title	No. of Hours		Units	Pre-requisites	Subject Code & Title	No. of Hours		Units	Pre-requisites
	Lec	Lab				Lec	Lab		
EM 11 - Calculus 1 (Differential Calculus)	3	0	3		CFP 11R - Computer Fundamentals and Programming	0	6	2	
EM 13 - Algebra and Trigonometry for Engineering	4	0	4		Draw 11R- Engineering Drawing and Plans	0	3	1	
CE 11 - Civil Engineering Orientation	2	0	2		EM 18 - Calculus 2 (Integral Calculus)	4	0	4	EM 11, EM 13
CHS 1 - Reading and Interpreting the Hebrew Scriptures	3	0	3		Chem 14 - Chemistry for Engineers	3	3	4	
GE 1 - Understanding the Self	3	0	3		CHS 2 - Reading and Interpreting the Christian Scriptures	3	0	3	CHS 1
GE 4 - Mathematics in the Modern World	3	0	3		GE 9 - The Life and Works of Jose Rizal	3	0	3	
GE 7 - Science, Technology and Society	3	0	3		Phys 1 - Physics for Engineers	3	3	4	EM 11
PE 1 - Physical Fitness and Swimming	2	0	2		PE 2 - Physical Education	2	0	2	PE 1
NSTP 1 - National Service Training Program	3	0	3		NSTP 2 - National Service Training Program	3	0	3	NSTP 1
PEP 1 - Personality Enhancement Program	-	-	-		PEP 2 - Personality Enhancement Program	-	-	-	
Total	26	0	26		Total	21	15	26	
SECOND YEAR									
CE 21 - Fundamentals of Surveying (Survey 1)	2	3	3	Draw 11R	CE 20 - Geology for Engineers	2	0	2	Chem 14
Draw 12R- Computer-Aided Drafting (CAD)	0	3	1	Draw 11R	CE 22 - Fundamentals of Surveying (Survey 2)	1	3	2	CE 21
EM 21 - Differential Equations	3	0	3	EM 18	EM 24 - Engineering Data Analysis	3	0	3	EM 21
ES 21 - Engineering Economics	3	0	3	EM 18	ES 24 - Dynamics of Rigid Bodies	2	0	2	ES 23R
ES 23R - Statics of Rigid Bodies	3	0	3	EM18, Phys 1	ESC 32 - Mechanics of Deformable Bodies	4	0	4	ES 23R, EM 21
ES 25R - Environmental Science and Engineering	3	0	3	Chem 14	GE 2 - Readings in Philippine History	3	0	3	
GE 5 - Purposive Communication	3	0	3		GE 6 - Art Appreciation	3	0	3	
GE 10A - Whole Person Education	3	0	3		GE 8 - Ethics	3	0	3	
GE 12/CHS 3 - Ethics of the Christian Faith	3	0	3	CHS 2	GE 11 - Climate Change: Effects on People and Ecosystems	3	0	3	
PE 3 - Physical Education	2	0	2	PE 1	PE 4 - Physical Education	2	0	2	PE 1
Total	25	6	27		Total	26	3	27	
THIRD YEAR									
CE 31 - Hydraulics 1 (Fluid Mechanics)	2	3	3	ESC 32	CE 30 - Principle of Reinforcement/Pre-Stress Concrete	3	3	4	concurrent CE 34
CE 33 - Structural Theory 1	3	3	4	ESC 32	CE 32 - Hydrology	2	0	2	CE 31
CE 35 - Building System Design	2	3	3	Draw 12R	CE 34 - Structural Theory 2	3	0	3	CE 33
CE 37 - Engineering Utilities 1	3	0	3	Phys 1	CE 36 - Geotechnical Engineering 1	3	3	4	ESC 32
CE 39 - Engineering Utilities 2	3	0	3	Phys 1	CE 38 - Principles of Steel Design	2	3	3	concurrent CE 34
CE 55 - Highway and Railroad Engineering	3	0	3	CE 22	CE 50 - Hydraulics 2 (Open Channel)	2	0	2	CE 31
EMC 35 - Numerical Solutions to CE Problems	2	3	3	EM 21	CE 52 - Quantity Surveying (Estimate)	1	3	2	CE 35,EMC 35, ESC 36
ESC 36 - Construction Materials and Testing	2	3	3	ESC 32	ES 40R - Engineering Management	2	0	2	ES 21
					GE 3 - The Contemporary World	3	0	3	
Total	20	15	25		Total	21	12	25	
SUMMER									
CE 300 - On the Job Training (240 HOURS)	2	3	3	CE 30, CE 34, CE 36, CE 38, CE 52					
TOTAL	2	3	3						
FOURTH YEAR									
CE 41 - CE Project 1	1	3	2	CE 30, CE 34 CE 38, CE 52,	CE 40 - Ports and Harbor	3	0	3	CE 43
CE 43 - Principles of Transportation	3	0	3	CE 55	CE 42 - CE Project 2	1	3	2	CE 41
CE 45 - Reinforced Concrete Design	3	0	3	CE 30, CE 34	CE 44 - Construction Engineering and Management	3	0	3	ESC 36
CE 47 - Geotechnical Engineering 2	3	0	3	CE 34, CE 36	CE 46 - Water Resources Engineering	3	0	3	CE 32, CE 50
CE 49 - Foundation and Retaining Walls	3	0	3	CE 34, CE 36	CE 48 - Flood Control and Drainage	3	0	3	CE 32, CE 50
CE 51 - CE Laws, Ethics and Contracts	2	0	2	CE 30, CE 38	ES 28 - Technopreneurship	3	0	3	EM 21
CE 53 - Earthquake Engineering	3	0	3	CE 34, CE 36					
Total	18	3	19		Total	16	3	17	

Total units: 195

Revision approved by Academic Council on May 15, 2019.

*Students are required to obtain a minimum grade of 1.8 in all Eng'g & Phys subjects for progression.