COLLEGE OF ENGINEERING & DESIGN
SILLIMAN UNIVERSITY
Dumaguete City

BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Effective School Year 2018-2019 (version 2)

1st Semester					2nd Semester				
FIRST YEAR									
Subject Code & Title	**No. of Hours**		**Units**	***Pre-requisites***	**Subject Code & Title**	**No. of Hours**		**Units**	***Pre-requisites***
	Lec	**Lab**				**Lec**	**Lab**		
EM 1 - Algebra for Eng'g. Application	3	0	3		EM 11 - Calculus 1 (Differential Calculus)	3	0	3	EM 1, EM 2
EM 2 - Trigonometry for Eng'g. Application	3	0	3		Phys 1 - Selected Topics in Mech., Acoustics & Thermo	3	3	4	EM 1, EM 2
GE 4 - Mathematics in the Modern World	3	0	3		GE 3 - The Contemporary World	3	0	3	
Chem 14 - Chemistry for Engineers	3	3	4		GE 1 - Understanding the Self	3	0	3	
GE 7 - Science, Technology and Society	3	0	3		Draw 11R- Engineering Drawing and Plans	0	3	1	
CE 11 - Civil Engineering Orientation	2	0	2		CFP 11R - Computer Fundamentals & Programming	0	6	2	
CHS 1 - Reading & Interpreting the Hebrew Scriptures	3	0	3		CHS 2 - Reading & Interpreting the Christian Scriptures	3	0	3	CHS 1
PE 1 - Physical Fitness & 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 2 - Personality Enhancement Program	-	-	-	
Total	***25***	***3***	***26***		***Total***	***20***	12	***24***	
SUMMER									
EM 12 - Calculus 2 (Integral Calculus)	4	0	4	EM 11					
GE 9 - The Life and Works of Jose Rizal	3	0	3						
Total	***7***	0	***7***						
SECOND YEAR									
EM 21 - Differential Equations	3	0	3	EM 12	EM 24 – Engineering Data Analysis	3	0	3	EM 21
Draw 12R- Computer-Aided Drafting (CAD)	0	3	1	Draw 11R	CE 20 – Geology for Engineers	2	0	2	Chem 14
ES 23R - Statics of Rigid Bodies	3	0	3	EM12, Phys 1	ES 24 – Dynamics of Rigid Bodies	2	0	2	ES 23R
ES 21 – Engineering Economics	3	0	3	EM 12	ESC 32 – Mechanics of Deformable Bodies	4	0	4	ES 23R, EM 21
CE 21 – Fundamentals of Surveying (Survey 1)	2	3	3	Draw 11R	CE 22 – Fundamentals of Surveying (Survey 2)	1	3	2	CE 21
ES 25R – Environmental Science & Engineering	3	0	3	Chem 14	GE 6 – Art Appreciation	3	0	3	
GE 5 - Purposive Communication	3	0	3		GE 8 - Ethics	3	0	3	
GE 12/CHS 3 – Ethics of the Christian Faith	3	0	3	CHS 2	GE 2 - Readings in Philippine History	3	0	3	
GE 10 - Whole Person Education	3	0	3		GE 11 - Free Elective	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 33 - Structural Theory 1	3	3	4	ESC 32	CE 34 - Structural Theory 2	3	0	3	CE 33
CE 35 - Building Design	2	3	3	Draw 12R	ES 40R - Engineering Management	2	0	2	ES 21
CE 37 – Engineering Utilities 1	3	0	3	Phys 1	CE 38 - Principles of Steel Design	2	3	3	concurrent CE 34
CE 39 - Engineering Utilities 2	3	0	3	Phys 1	CE 30 - Principle of Reinforcement/Pre-Stress Concrete	3	3	4	concurrent CE 34
EMC 35 - Numerical Solutions to CE Problems	2	3	3	EM 21	CE 32 – Hydrology	2	0	2	CE 31
CE 31 - Hydraulics 1 (Fluid Mechanics)	2	3	3	ESC 32	CE 50 – Hydraulics 2 (Open Channel)	2	0	2	CE 31
ESC 36 - Construction Materials & Testing	2	3	3	ESC 32	CE 36 – Geotechnical Engineering I	3	3	4	ESC 32
CE 55 - Highway & Railroad Engineering	3	0	3	CE 22	CE 52 - Quantity Surveying (Estimate)	1	3	2	CE 35,EMC 35,ESC 36
Total	***20***	***15***	***25***		***Total***	***18***	***12***	***22***	
SUMMER									
CE 300 - On the Job Training (240 HOURS)	**2**	**3**	**3**	CE 30, CE 34, CE 38, CE 56					
TOTAL	**2**	**3**	**3**						
FOURTH YEAR									
CE 51 – CE Laws, Ethics & Contracts	2	0	2	CE 30, CE 38	ES 28 –Technopreneurship	3	0	3	EM 21
CE 43 – Principles of Transportation	3	0	3	CE 55	CE 40 – Ports and Harbor	3	0	3	CE 43
CE 41 - CE Project 1	1	3	2	CE 30, CE 38, CE 52, CE 34	CE 42 - CE Project 2	1	3	2	CE 41
CE 49 - Prof Course (Foundation & Ret Walls)	3	0	3	CE 34, CE 36	CE 44 - Construction Engineering & Management	3	0	3	ESC 36
CE 53 - Prof Course (Earthquake Engineering)	3	0	3	CE 34, CE 36	CE 46 – Prof Course (Water Resources & Eng'g.)	3	0	3	CE 32, CE 50
CE 47 - Prof Course (Geotech 2)	3	0	3	CE 34, CE 36	CE 48 – Prof Course (Flood Control & Drainage)	3	0	3	CE 32, CE 50
CE 45 - Prof Course (RCD)	3	0	3	CE 30, CE 34					
Total	***18***	***3***	***19***		***Total***	***16***	***3***	***17***	

Total units: 197

***Students are required to obtain a minimum grade of 1.8 in all Eng'g & Phys subjects for progression.** Revision approved by Academic Council on May 15, 2019.