



University of Science and Technology of Southern Philippines
College of Information Technology and Computing
 Department of Information Technology and Computing

BACHELOR OF SCIENCE IN CIVIL ENGINEERING
 EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	111	Civil Engineering Orientation	2	0	2	2	None	None
CHEM	111	Chemistry for Engineers	3	3	6	4	None	None
ENG	102	Art Appreciation	3	0	3	3	None	None
ES	102	Engineering Drawing and Plans	0	3	3	1	None	None
Math	101	Mathematics in the Modern World	3	0	3	3	None	None
Math	111	Calculus 1	3	0	3	3	None	None
SS	103	Contemporary World	3	0	3	3	None	None
PE	101	Physical Education 1	2	0	2	2	None	None
NSTP	101	ROTC/CWTS/LTS 1	3	0	3	3	None	None
Total			22	6	28	24		

FIRST YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
ENG	101	Purposive Communication	3	0	3	3	None	None
ES	103	Computer Aided Drafting 1	1	3	4	2	ES 102	None
ES	106	Computer Fundamentals and Programming	0	6	6	2	Math 101	None
Math	102	Mathematics of Measurement	3	0	3	3	None	None
Math	121	Calculus 2	3	0	3	3	Math 111	None
Phys	120	Physics for Engineers	3	3	6	4	Math 111	None
SS	102	Readings in Philippines History	3	0	3	3	None	None
PE	102	Physical Education 2	2	0	2	2	PE 101	None
NSTP	201	ROTC/CWTS/LTS 2	3	0	3	3	NSTP 101	None
Total			21	12	33	25		



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SECOND YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	211	Fundamentals of Surveying	3	3	6	4	ES 102, GE 1	None
CE	212	Geology for Civil Engineers	2	0	2	2	Chem 111	None
ES	202	Statics of Rigid Bodies	3	0	3	3	Math 121 & Phys 120	None
ES	208	Differential Equations	3	0	3	3	Math 121	None
ES	301	Engineering Economy	3	0	3	3	Math 102/ 2 nd Year Standing	None
ES	209	Engineering Data Analysis	3	0	3	3	Math 101	None
FIL	101	Panitikan	3	0	3	3	None	None
PE	103	Physical Education 3	2	0	2	2	PE 101	None
Total			22	3	25	23		

SECOND YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	222	Engineering Utilities 1 (Basic Electrical Engg.)	3	0	3	3	Phys 120, ES 104	None
ES	10	Science, Technology, & Society	3	0	3	3	None	None
ES	203	Dynamics of Rigid Bodies	2	0	2	2	ES 202	None
ES	205	Mechanics of Deformable Bodies	4	0	4	4	ES 202	None
FIL	102	Retorika	3	0	3	3	None	None
SS	101	Understanding the Self	3	0	3	3	None	None
PE	104	Physical Education 4	2	0	2	2	PE 101	None
Total			20	0	20	20		



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THIRD YEAR								
First Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	311	Structural Theory	3	3	6	4	ES 205	None
CE	312	Construction Materials and Testing	2	3	5	3	ES 205	None
CE	313	Building System Design	2	3	5	3	3 rd Year Standing	None
CE	314	Engineering Utilities 2 (Basic M.E)	3	0	3	3	Phys 10	None
CE	315	ELECTIVE (COSH)	3	0	3	3	3 rd Year Standing/ ES 205	None
CE	316	Hydraulics	4	3	7	5	3 rd Year Standing	None
ES	303	Engineering Management	2	0	2	2	2 nd Year Standing	None
Total			19	12	31	23		

THIRD YEAR								
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	322	Geotechnical Engineering (Soil Mechanics)	3	3	6	4	ES 205/ CE 212	None
CE	323	Quantity Surveying	1	3	4	2	CE 313	None
CE	324	Numerical Solutions to CE Problems	2	3	5	3	ES 208	None
CE	325	Highway Railroad Engineering	3	0	3	3	CE 221	None
CE	326	Hydrology	2	0	2	2	CE 316	None
ES	302	Technopreneurship	3	0	3	3	3 rd Year/ ES 301	None
SS	104	Ethics	3	0	3	3	None	None
Total			17	9	26	20		

THIRD YEAR								
Summer								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	330	On the Job Training	3	260 /hrs	3	3	3 rd Year Standing (Completed Major Subjects up to 3 rd Yr.)	None
Total			3	260/hrs	3	3		



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FOURTH YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	411	Principles of Steel Design	2	3	5	3	CE 321	None
CE	412	Principles of Transportation Eng'g	3	0	3	3	CE 325	None
CE	413	Construction Methods and Project Management	3	3	6	4	4 th Year Standing	None
CE	415	CE Project – 1 (Engineering Research Methods)	1	3	4	2	ES 209/ 4 th Year Standing	None
CE	416	Principles of Reinforced/Prestressed Concrete	3	3	6	4	CE 321	None
SS	100	Foreign Language	3	0	3	3	None	None
SS	105	Rizal's Life Works and Writings	3	0	3	3	None	None
Total			18	12	27	22		

FOURTH YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
CE	422	CE Project - II	1	3	4	2	CE 415	None
CE	423	TE1 – Water Supply Planning & Development	2	3	5	3	CE 326/4 th Year Standing	None
CE	424	TE2 – Water Resources Engineering	2	3	5	3	CE 326/4 th Year Standing	None
CE	425	TE3 – Earthquake Engineering	3	3	6	4	CE 321	None
CE	426	TE4 – Structural Design of Buildings	3	3	6	4	CE 411, CE 416	None
CE	427	TE5 – Foundation Engineering 2	3	3	6	4	CE 414	None
CE	417	CE Laws, Contracts, Specifications and Ethics	2	0	2	2	4 th Year Standing	None
Total			16	18	34	22		