

## University of Southeastern Philippines

College of Engineering

## BACHELOR OF SCIENCE CIVIL ENGINEERING - Transportation Engineering

CIENCE CIVIL ENGINEERING - HAISPOID
CMO 92 series of 2017
Approved per BOR Resolution No. 58 Series of 2018
Revised per BOR Resolution No. 75 Series of 2019
Effective S.Y. 2018-2019

					FIR	ST YEAR							
1st Semester							2nd Semester						
Course		Credit			Pre/Co-	Course			Cre	dit	100000000000000000000000000000000000000		
No.	Course Title	Lec	Lab	Total Units Credit	Requisite	No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite		
GE 111	Purposive Communication	3	0	3	None	GE 113	Understanding the Self	3	0	3	None		
GE 112	Mathematics in the Modern World	3	0	3	None	GE 114	Ethics	3	0	3	None		
GE 215	The Life and Works of Rizal	3	0	3	None	GE 217	Science, Technology and Society	3	0	3	None		
Math 111	Engineering Calculus 1	3	0	3	None	Math 121	Engineering Calculus 2	3	0	3	Math 111		
Nat Sci 1	Chemistry for Engineers	3	1	4	None	Nat Sci 2	Physics for Engineers	3	1		Nat Sci 1, Math 111		
BES 101	Engineering Drawing and Plans	0	1	1	None	BES 102	Computer Aided Drafting	0	1		BES 101		
CEC 111	Civil Engineering Orientation	2	0	2	None	Nat Sci 3	Engineering Geology	2	0	2	Nat Sci 1		
PE 111	Movement Enhancement	2	0	2	None	PE 122	Fitness Exercise	2	0	2			
NSTP 111	National Service Training Program 1	3	0	3	None	NSTP 122	National Service Training Program 2	- 2	0		None		
	Total			24	.,,,,,,	1317 122	Total	1 3		24	None		

				OFF SEM	ESTER 1 (refer below fo	r ***OFF SEMES	STER COURSES***)					
					SECON	D YEAR						
	1st Se	emester					2nd Se	emester				
Course No.	Course Title		Cre	dit	Pre/Co-	Course	200000000000000000000000000000000000000	T	Cre	dit		
		Lec	Lab	Total Units Credit	Requisite	No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite	
GE 216	Readings in the Philippine History	3	0	3	None	GE 218	Arts Appreciation	3	0	3	None	
EGE 311	General Education Elective 1	3	0	3	None	Math 311	Numerical Solutions to CE Problems	2	1	3	Math 211	
GE 319	The Contemporary World	3	0	3	None	EGE 312	General Education Elective 2	3	0	3	None	
Math 211	Differential Equations	3	0	3	Math 121	BES 105	Mechanics of Deformable Bodies	4	0	4	BES 115	
Math 212	Engineering Data Analysis	3	0	3	Math 121	BES 107	Methods of Research	3	0	3	Math 212, GE 111	
BES 115	Mechanics of Rigid Bodies	5	0	5	Math 121, Nat Sci 2	CEC 221	Fundamentals of Surveying	3	0	3	Math 121, Nat Sci 2	
BES 106	Engineering Economics	3	0	3	Math 121	CEC 221F	Fundamentals of Surveying, Field	0	2	2	Math 121, Nat Sci 2	
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	None	CEC 222	Building System Design	2	1	3	BES 115, BES 102	
	Total	*		25		PE 224	Physical Activities Towards Health & Fitness II	2	0	2	None None	
			1///				Total	-		20		

	the state of the s			OFF SEME	STER 2 (refer below	for ***OFF SEMES	STER COURSES***)				
					THIF	RD YEAR					
V ////// /// //	1st S	emester					2nd Se	mester			
Course	Course Title	Credit			Pre/Co-	Course		Credit			
No.		Lec	Lab	Total Units Credit	Requisite	No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite
EGE 313	General Education Elective 3	3	0	3	None	CEC 321	Highway and Railroad Engineering	3	0	3	CEC 312
BES 109	Engineering Management	3	0	3	Math 212	CEC 322	Construction Materials and Testing, lecture	2	0	2	BES 105
CEC 311	Structural Theory	3	1	4	BES 105	CEC 322L	Construction Materials and Testing, lab	0	1	100 100 100 100	BES 105
CEC 312	Principle of Transportation Engineering	3	0	3	CE 221	CEC 323	Principle of Steel & Timber Design	3	1	4	CEC 311
CEC 313	Geotechnical Engineering, Lecture	3	0	3	BES 105	CEC 324	Principle of Reinforced / Pre-stressed Concrete	3	1	4	CEC 311
CEC 313L	Geotechnical Engineering, Lab	0	1	1	BES 105	CEC 325	Hydrology	2	0	2	BES 105
CEC 314	Quantity Surveying	1	1	2	CEC 222	CEC 326	Construction Methods and Project Management	2	1	3	BES 109
CEC 315	Hydraulics, lecture	4	0	4	BES 105	CEC 327	CE Laws, Ethics and Contracts	2	0	2	BES 109
CEC 315L	Hydraulics, lab	0	1	1	BES 105	BES 110	Technopreneurship	3	0	3	BES 109
	Total			24			Total			24	020 103

		***************************************		OFF SEME	STER 3 (refer below for	OFF SEMES	TER COURSES***)						
			and the second		FOUR	TH YEAR				A			
	1st Se	mester				2nd Semester							
Course	Course Title	Credit		Pre/Co- C	Course	C	Credit						
No.		Lec	Lab	Total Units Credit	Requisite	No.	Course Title Lab				Pre/Co-Requisite		
CEC 400	CE Project (Specialization Project, Thesis)*	0	3	3		CEC 400	CE Project (Specialization Project, Thesis)*	0	3	3			
CE IC 4	Field trip and Seminars	0	1	1		CE Elective	Correlation Course	0	2	2	All prior Subjects		
CE_43_	Professional Course – Specialized 1	3	0	3		CEC 401	Specialized On-the-Job Training (320 hrs)	0	2	2	Completed		
CE_43_	Professional Course – Specialized 2	3	0	3	All prior subjects	ELEC 1	FREE ELECTIVE	0	1	1	-		
CE_ 43_	Professional Course – Specialized 3	3	0	3	completed		Total			8			
CE_ 43_	Professional Course - Specialized 4	3	0	3									
CE 43	Professional Course - Specialized 5	3	0	3									

OFF SEMESTER 1							OFF SEMESTER 3						
Course No.	200 A STATE OF THE	Credit			Pre/Co-	Course							
	Course Title	Lec	Lab	Total Units Credit	Requisite	No.	Course Title	Lec	Lab	Total Units Credit	Pre/Co-Requisite		
BES 103	Computer Fundamentals and Programming	1	2	3	None	CE IC 1	Basic Driving and Automotive	0	1	1	CEC 312		
	Total 3					CE IC 2	Scaffold Erection	0	1	1	CEC 323, CEC 324		
OFF SEMESTER 2							Disaster Risk Management	0	1	1	ALE 222		
ALE 221	Engineering Utilities 1	3	0	3	Nat Sci 2	Total 3							
ALE 222	Engineering Utilities 2	3	0	3	Nat Sci 2								
	Total		-	6									

PECIALIZATION COURSES FOR TRANSPOR	RTATION ENGINEERING TRACK	SUGGESTED GE ELECTIVES	Charles Carl Philippin	State of	O. Bert P. Galler	1 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Road Maintenance Management	Public Transport Management	People and the Earth's Ecosystem	3	0	3	None
ransport Economics / Project Appraisal	Traffic Engineering Analysis and Management	The Entrepreneurial Mind	3	0	3	None
ransportation Systems Planning and Design Computer Software in Transportation Engineering	Non-Motorized transport / Road Safety	Living in the IT Era	3	0	3	None
computer Software in Transportation Engineering	^	Gender and Society	3	0	3	None
		Popular Literature	3	0	3	None
Summary		Foreign Language	3	0	3	None
Mathematics, Natural / Physical Sciences	25	Transpersonal Psychology	3	0	3	None
Basic Engineering Sciences	28					110110
Allied Courses	6					
Professional Courses – Common	55					
Professional Courses - Specialized	15					
On the Job Training (320 Hours)	3					
General Education Courses	33					
Mandated Course	3					
Physical Education	8					
	6					
National Service Training Program						
	4					