

HOLY ANGEL UNIVERSITY
SCHOOL OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN CIVIL ENGINEERING (BSCE)
Program Code: CE
EFFECTIVE SCHOOL YEAR 2018-2019 (with Amendments)

COURSE CODE	COURSE TITLE	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S)/ CO-REQUISITE(S)
FIRST YEAR, FIRST SEMESTER					
1PURCOMM	Purposive Communication	3	0	3	None
2MATHMWORLD	Mathematics in the Modern World	3	0	3	None
CALC1	Calculus 1 (Differential)	3	0	3	None
CHEMENG	Chemistry for Engineers	3	0	3	None
CHEMENGL	Chemistry for Engineers Laboratory	0	3	1	Co-req: CHEMENG
ENDRAWPLANS	Engineering Drawing and Plans	0	3	1	None
4FYE1	Big History 1: Big Bang to the Future	3	0	3	None
THEOLOGY101	Theological Foundations: Judeo-Christian Tradition and Sacred Scriptures	3	0	3	None
7PE1	PE 1 - Movement Enhancement	2	0	2	None
CWTS1	Civic Welfare Training Services 1	0	3	3	None
TOTAL		20	9	25	

FIRST YEAR, SECOND SEMESTER

4CONWORLD	The Contemporary World	3	0	3	None
CALC2	Calculus 2 (Integral)	3	0	3	CALC1
EPHYSICS	Physics for Engineers	3	0	3	CALC1, Co-req: CALC2
EPHYSICSL	Physics for Engineers Laboratory	0	3	1	CALC1, Co-reqs: CALC2, EPHYSICS
CE-ORIENT	Civil Engineering Orientation	2	0	2	None
CADRAFTING	Computer-Aided Drafting	0	3	1	None
4FYE2	Big History 2: Looking through the Lens of Big History	3	0	3	4FYE1
THEOLOGY102	Special Issues in Catholic Theology	3	0	3	THEOLOGY101
7PE2	PE 2 - Fitness Exercises	2	0	2	7PE1
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
TOTAL		19	9	24	

SECOND YEAR, FIRST SEMESTER

COMFUN1	Computer Fundamentals and Programming 1	0	3	1	None
DIFFEQNS	Differential Equations	3	0	3	CALC2
ENGDATA	Engineering Data Analysis	3	0	3	CALC1
ENGGECON	Engineering Economics	3	0	3	2nd Year Standing
UTILITIES1	Engineering Utilities 1	3	0	3	EPHYSICS, EPHYSICSL
GEOLOGY-CE	Geology for Civil Engineers	2	0	2	CHEMENG, CHEMENGL
FUNSURVEY1	Fundamentals of Surveying 1	2	0	2	ENDRAWPLANS
FUNSURVEY1L	Fundamentals of Surveying 1 Laboratory	0	3	1	ENDRAWPLANS, Co-req: FUNSURVEY
STATICS-RB	Statics of Rigid Bodies	3	0	3	CALC2, EPHYSICS, EPHYSICSL
7PE3	PE 3 - Physical Activities towards Health and Fitness 1	2	0	2	7PE2
TOTAL		21	6	23	

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SECOND YEAR, SECOND SEMESTER

4UNDERSELF	Understanding the Self	3	0	3	None
COMFUN2	Computer Fundamentals and Programming 2	0	3	1	COMFUN1
UTILITIES2	Engineering Utilities 2	3	0	3	EPHYSICS, EPHYSICSL
CONMATLS	Construction Materials and Testing	2	0	2	STATICS-RB, Co-req: MECHDB-CE
CONMATLSL	Construction Materials and Testing Laboratory	0	3	1	STATICS-RB, Co-req: CONMATLS
MECHDB-CE	Mechanics of Deformable Bodies	5	0	5	STATICS-RB
DYNAMICS-RB	Dynamics of Rigid Bodies	2	0	2	STATICS-RB
FUNSURVEY2	Fundamentals of Surveying 2	2	0	2	FUNSURVEY1, FUNSURVEY1L
FUNSURVEY2L	Fundamentals of Surveying 2 Laboratory	0	3	1	FUNSURVEY1, FUNSURVEY1L, Co-req: FUNSURVEY2
THEOLOGY103	Christian Spirituality in the Contemporary World	3	0	3	THEOLOGY102
7PE4	PE 4 - Physical Activities towards Health and Fitness 2	2	0	2	7PE3
TOTAL		22	9	25	

THIRD YEAR, FIRST SEMESTER

3FIL1	Konstekswalisadong Komunikasyon sa Filipino	3	0	3	None
HDRIOLOGY	Hydrology	2	0	2	3rd Year Standing
HWYRAILENG	Highway and Railroad Engineering	3	0	3	FUNSURVEY2, FUNSURVEY2L
BLDGDESIGN	Building Systems Design	2	3	3	CADRAFTING
STHEORY	Structural Theory	5	3	6	MECHDB-CE
ENGGMGMT	Engineering Management	3	0	3	3rd Year Standing
NUMSOL-CE	Numerical Solutions to CE Problems	2	3	3	DIFFEQNS
TOTAL		20	9	23	

THIRD YEAR, SECOND SEMESTER

3FIL2	Filipino sa Iba't Ibang Disiplina	3	0	3	3FIL1
4ETHICS	Ethics	3	0	3	None
4READPHILHIS	Readings in Philippine History	3	0	3	None
9STS	Science, Technology and Society	3	0	3	None
CONCRETE	Principles of Reinforced/Prestressed Concrete	3	3	4	STHEORY
PRINSTEEL	Principles of Steel Design	2	3	3	STHEORY
QUANTISURV	Quantity Surveying	2	3	3	ENGGCON, BLDGDESIGN
TRANSENG	Principles of Transportation Engineering	3	0	3	HWYRAILENG
TOTAL		22	9	25	

THIRD YEAR, SUMMER TERM

CE-OJT	Civil Engineering Industry Immersion (240 Hours)			3	3rd Year Standing, Permission of Program Chair or School Dean
TOTAL				3	

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FOURTH YEAR, FIRST SEMESTER

GEOTECHENG	Geotechnical Engineering (Soil Mechanics)	3	0	3	GEOLOGY-CE, MECHDB-CE
GEOTECHENGL	Geotechnical Engineering (Soil Mechanics) Laboratory	0	3	1	GEOLOGY-CE, MECHDB-CE, Co-req: GEOTECHENG
CMPROMGT	Construction Methods and Project Management	3	0	3	4th Year Standing
CELAWSEC	CE Laws, Ethics and Contracts	2	0	2	3rd Year Standing
CE-PROJ1	CE Project 1	1	3	2	4th Year Standing
HYDROLICS1	Hydraulics 1	2	0	2	3rd Year Standing
HYDROLICS1L	Hydraulics 1 Laboratory	0	3	1	3rd Year Standing, Co-req: HYDROLICS1
TECHENTREP	Technopreneurship	3	0	3	ENGGCON
PROFSPECIAL1	Professional Course - Specialized 1	3	0	3	4th Year Standing
PROFSPECIAL2	Professional Course - Specialized 2	3	0	3	4th Year Standing
TOTAL		20	9	23	

FOURTH YEAR, SECOND SEMESTER

1LIT12	Great Books	3	0	3	None
4ARTAPP	Art Appreciation	3	0	3	None
4RIZAL	Life and Works of Rizal	3	0	3	None
HYDROLICS2	Hydraulics 2	2	0	2	HYDROLICS1, HYDROLICS1L
HYDROLICS2L	Hydraulics 2 Laboratory	0	3	1	HYDROLICS1, HYDROLICS1L, Co-req: HYDROLICS2
CE-PROJ2	CE Project 2	1	3	2	CE-PROJ1
SPTOPICS-CE	Special Topics in Civil Engineering	0	3	1	4th Year Standing
PROFSPECIAL3	Professional Course - Specialized 3	3	0	3	4th Year Standing
PROFSPECIAL4	Professional Course - Specialized 4	3	0	3	4th Year Standing
PROFSPECIAL5	Professional Course - Specialized 5	3	0	3	4th Year Standing
TOTAL		21	9	24	

PROGRAM TOTAL

195

IMPORTANT: Registration in any subject is allowed only upon passing the prerequisite(s) of the said subject, if any. A subject enrolled in violation of this rule will not be given any credit regardless of the grade obtained.

NOTES: The nth Year Standing means that the student must have completed at least 75% of the load requirements of the previous year level.

This curriculum is based on requirements specified by Commission on Higher Education (CHED) Memorandum Order No. 92, series of 2017: Policies, Standards and Guidelines for the Bachelor of Science in Civil Engineering Program.

SUGGESTED PROFESSIONAL COURSES UNDER SPECIALIZED AREAS

A. CONSTRUCTION ENGINEERING AND MANAGEMENT

PROJCONSMAN	Project Construction and Management	3	0	3
CONSMETEQUIP	Advanced Construction Methods and Equipment	3	0	3
CONCOSTENGG	Construction Cost Engineering	3	0	3
DBMGMTCONS	Database Management in Construction	3	0	3
COSH	Construction Occupational Safety and Health (COSH)	3	0	3

B. GEOTECHNICAL ENGINEERING

ROCKMECH	Geotechnical Engineering (Rock Mechanics)	3	0	3
FNDENG	Foundation Engineering	3	0	3
GEOTECHEQ	Geotechnical Earthquake Engineering	3	0	3
GROUND	Ground Improvement	3	0	3

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C. STRUCTURAL ENGINEERING

CSWSTRUCT	Computer Software in Structural Analysis	3	0	3	
EARTHQUAKE	Earthquake Engineering	3	0	3	
STEELDESIGN	Design of Steel Structures	3	0	3	
RCONDESIGN	Reinforced Concrete Design	3	0	3	
PRESTRESSED	Prestressed Concrete Design	3	0	3	
TOWERS	Structural Design of Towers and Other Vertical Structures	3	0	3	
BRIDGENGG	Bridge Engineering	3	0	3	
FRWDESIGN	Foundation and Retaining Wall Design	3	0	3	

D. TRANSPORTATION ENGINEERING

TRANSYSPLAN	Transportation Systems Planning and Design	3	0	3	
HIGHWAY	Highway Engineering	3	0	3	
AIRPORTDES	Airport Design	3	0	3	
PORTS	Ports and Harbors	3	0	3	

E. WATER RESOURCES ENGINEERING

WATERENGG	Water Resources Engineering	3	0	3	
FLOODCON	Flood Control and Drainage Design	3	0	3	
IRRIGENGG	Irrigation Engineering	3	0	3	
WATERPLNDEV	Water Supply Planning and Development	3	0	3	
COASTALENGG	Coastal Engineering	3	0	3	
RIVERENGG	River Engineering	3	0	3	
GWATERFLOW	Ground Water Flow Modeling	3	0	3	