

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN CIVIL ENGINEERING
Program Code: CE
SCHOOL YEAR 2011-2012

COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
FIRST YEAR, FIRST SEMESTER					
ALGEBRA1	College Algebra 1	3	0	3	None
TRIGO	Plane and Spherical Trigonometry	3	0	3	None
GENCHEM1	General Chemistry 1 Lecture	2	0	2	None
GENCHEM1L	General Chemistry 1 Laboratory	0	3	1	Coreq: GENCHEM1
ESDRAW	Engineering Drawing	0	3	1	None
1ENGLISH	Reading and Writing	3	0	3	None
4PHILHIS	Philippine History	3	0	3	None
CLE1	Sowing Seeds of Faith	3	0	3	None
7SELECT	Self-Testing Activities	2	0	2	None
CWTS1	Civic Welfare Training Services 1	0	3	3	None
TOTAL		19	9	24	

FIRST YEAR, SECOND SEMESTER

ALGEBRA2	College Algebra 2	2	0	2	ALGEBRA1
ANAGEO	Analytic Geometry	3	0	3	ALGEBRA1, TRIGO
SOLIDM	Solid Mensuration	2	0	2	ALGEBRA1, TRIGO
GENCHEM2	General Chemistry 2	1	3	2	GENCHEM1, GENCHEM1L
ARCDRAW	Architectural Drawing	0	3	1	ESDRAW
1SPEECH	Speech and Oral Communication	3	0	3	1ENGLISH
4LOGIC	Logic	3	0	3	None
4ARTAPP	Art Appreciation	3	0	3	None
CLE2	Step to Conversion	3	0	3	CLE1
7RHACT	Fundamentals of Rhythmic Activities	2	0	2	7SELECT
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
TOTAL		22	9	27	

SECOND YEAR, FIRST SEMESTER

DIFFCAL	Differential Calculus	4	0	4	ALGEBRA2, ANAGEO, SOLIDM
PHYSICS1	Physics 1 Lecture	4	0	4	ALGEBRA1, TRIGO
PHYSICS1L	Physics 1 Laboratory	0	3	1	Coreq: PHYSICS1
BASCAD	Basic Computer-Aided Drafting	0	3	1	ARCDRAW
4GENPSY	General Psychology	3	0	3	None
1TECHCOM	Technical Communication	3	0	3	1SPEECH
3FILKOM	Komunikasyon sa Akademikong Filipino	3	0	3	None
CLE3	Set to Uphold the Church's Conviction	3	0	3	CLE2
7FUNGAM	Fundamentals of Games and Sports	2	0	2	7RHACT
TOTAL		22	6	24	

SECOND YEAR, SECOND SEMESTER

INTECAL	Integral Calculus	4	0	4	DIFFCAL
PHYSICS2	Physics 2 Lecture	4	0	4	PHYSICS1, PHYSICS1L
PHYSICS2L	Physics 2 Laboratory	0	3	1	Coreq: PHYSICS2
COMFUN	Computer Fundamentals and Programming	0	6	2	2nd Year Standing
APCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BASCAD
4RIZAL	Life and Works of Rizal	3	0	3	None
4PHIGOV	Philippine Government and the New Constitution	3	0	3	4PHILHIS
3FILBAS	Pagbasa at Pagsulat Tungo sa Pananaliksik	3	0	3	3FILKOM
CLE4	Send to be Evangelizers	3	0	3	CLE3
7REACT	Recreational Activities	2	0	2	7FUNGAM
TOTAL		22	12	26	

THIRD YEAR, FIRST SEMESTER

DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
BLDGDES1	Building Design 1	1	3	2	ARCDRAW
MECHENG	Basic Mechanical Engineering	3	0	3	PHYSICS2, PHYSICS2L
EHSURV	Elementary and Higher Surveying Lecture	3	0	3	ALGEBRA2, TRIGO
EHSURVL	Elementary and Higher Surveying Laboratory	0	3	1	Coreq: EHSURV
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
4PHILOMAN	Philosophy of Man	3	0	3	None
TOTAL		19	6	21	

THIRD YEAR, SECOND SEMESTER

DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
MECHDEF	Mechanics of Deformable Bodies	5	0	5	STATICS
ENVISAFE	Environmental Engineering and Safety Management	3	0	3	GENCHEM2, 3rd Year Standing
ENSURVEYS	Engineering Surveys Lecture	3	0	3	EHSURV, EHSURVL
ENSURVEYSL	Engineering Surveys Laboratory	0	3	1	Coreq: ENSURVEYS
BLDGDES2	Building Design 2	1	3	2	BLDGDES1
ADMATH	Advanced Engineering Mathematics	3	0	3	DIFEQNS
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
TOTAL		20	6	22	

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FOURTH YEAR, FIRST SEMESTER					
STHEORY1	Structural Theory 1	3	3	4	MECHDEF
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
SOILMECH	Soil Mechanics	3	0	3	MECHDEF
SOILMECHL	Soil Mechanics Laboratory	0	3	1	Coreq: SOILMECH
FLUMECH	Mechanics of Fluids	2	0	2	DYNAMICS, MECHDEF
FLUMECHL	Mechanics of Fluids Laboratory	0	3	1	Coreq: FLUMECH
HIWAYS	Highway Engineering	3	0	3	ENSURVEYS, ENSURVEYSL
PLANNST-CE	Planning and Estimates	3	0	3	BLDGDES2
PDPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
	TOTAL	18	9	21	

FOURTH YEAR, SECOND SEMESTER

STHEORY2	Structural Theory 2	3	3	4	STHEORY1
HYDRAU-CE	Hydraulics	2	0	2	FLUMECH, FLUMECHL
HYDRAUL	Hydraulics Laboratory	0	3	1	Coreq: HYDRAU-CE
TRANSP	Transportation Engineering	3	0	3	HIWAYS
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
CONSMAT	Construction Materials and Testing	2	0	2	MECHDEF
CONSMATL	Construction Materials and Testing Laboratory	0	3	1	Coreq: CONSMAT
CEELECT1	Technical Elective 1	3	0	3	
	TOTAL	19	9	22	

FOURTH YEAR, SUMMER TERM

CEOJT	Civil Engineering On-the-Job Training (320 hours)			3	4th Year Standing
	TOTAL			3	

FIFTH YEAR, FIRST SEMESTER

CONPROJ	Construction Methods and Project Management	3	3	4	5th Year Standing
CELAWS	CE Laws, Contracts, Specifications and Ethics	3	0	3	5th Year Standing
HYDROLOGY	Hydrology	3	0	3	FLUMECH, FLUMECHL
RCONCRETE	Reinforced Concrete Design	3	3	4	STHEORY2
CEPROJ	Civil Engineering Projects	1	6	3	5th Year Standing, CEOJT
CEELECT2	Technical Elective 2	3	0	3	
	TOTAL	16	12	20	

FIFTH YEAR, SECOND SEMESTER

WARENG	Water Resources Engineering	3	0	3	HYDRAU-CE, HYDRAUL
FOUNDENGG	Foundation Engineering	3	3	4	SOILMECH, SOILMECHL
STEELTIMBER	Steel and Timber Design	3	3	4	STHEORY2
SPTOPICS	Special Topics in Civil Engineering	0	3	1	5th Year Standing
CEELECT3	Technical Elective 3	3	0	3	
CEELECT4	Technical Elective 4	3	0	3	
	TOTAL	15	9	18	

COURSE TOTAL

228

TECHNICAL ELECTIVES

ERQUAKE	Earthquake Engineering	3	0	3	STHEORY2
PRECONDES	Prestressed Concrete Design	3	0	3	RCONCRETE
BRIDENGG	Bridge Engineering	3	0	3	STHEORY2
IFCADE	Irrigation, Flood Control and Drainage Engineering	3	0	3	HYDRAU-CE, HYDRAUL
SANENGG	Sanitary Engineering	3	0	3	ENVISAFE
WATERES	Water and Waste Water Engineering	3	0	3	HYDROLOGY
ENTREPP	Entrepreneurship	3	0	3	5th Year Standing
CONCOST	Construction Cost Engineering	3	0	3	PLANNST-CE
DBASEMAN	Database Management in Construction	3	0	3	COMFUN
TRANSPLAN	Transportation Planning	3	0	3	TRANSP
TRANSYS	Transportation Systems Design	3	0	3	TRANSP
HITRASAF	Highway Design and Traffic Safety	3	0	3	HIWAYS
GEOSYN	Geosynthetics in Geotechnical Engineering	3	0	3	CONSMAT, CONSMATL
GEQUAKE	Geotechnical Earthquake Engineering	3	0	3	STHEORY2
GLANFILL	Geotechnical Aspects of Landfill Design	3	0	3	5th Year Standing
GEOTECHENGG	Geotechnical Engineering	3	0	3	SOILMECH, SOILMECHL

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.