

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN CIVIL ENGINEERING

Program Code: CE
SCHOOL YEAR 2014-2015

COURSE NO.	DESCRIPTION	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S) COREQUISITE(S)
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FIRST YEAR, FIRST SEMESTER

ALGEBRA1	College Algebra 1	3	0	3	None
TRIGO	Plane and Spherical Trigonometry	3	0	3	None
CHEMISTRY	General Chemistry Lecture	3	0	3	None
CHEMISTRYL	General Chemistry Laboratory	0	3	1	Coreq: CHEMISTRY
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
7SELFTEST	PE 1: Self-Testing Activities	2	0	2	None
CWTS1	Civic Welfare Training Services 1	0	3	3	None
TOTAL		20	9	25	

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
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
7RHYTHMIC	PE 2: Fundamentals of Rhythmic Activities	2	0	2	7SELFTEST
CWTS2	Civic Welfare Training Services 2	0	3	3	CWTS1
TOTAL		21	6	25	

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
COMFUN1	Computer Fundamentals and Programming 1	0	3	1	None
BCADRAFT	Basic Computer-Aided Drafting	0	3	1	ESDRAW
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
7GAMES	PE 3: Fundamentals of Games and Sports	2	0	2	7RHYTHMIC
TOTAL		22	9	25	

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
COMFUN2	Computer Fundamentals and Programming 2	0	3	1	COMFUN1
ADVCAD	Advanced Computer-Aided Drafting and Applications	0	3	1	BCADRAFT
4PHILOMAN	Philosophy of Man	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
7TEAM	PE 4: Team Sports	2	0	2	7GAMES
TOTAL		22	9	25	

THIRD YEAR, FIRST SEMESTER

DIFEQNS	Differential Equations	3	0	3	INTECAL
STATICS-CE	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
BLDGDESIGN1	Building Design 1	1	3	2	ADVCAD
MECHENG	Basic Mechanical Engineering	3	0	3	PHYSICS2, PHYSICS2L
EHSURVEYS	Elementary and Higher Surveying Lecture	3	0	3	TRIGO, ALGEBRA2, ARCDRAW
EHSURVEYSL	Elementary and Higher Surveying Laboratory	0	3	1	Coreq: EHSURVEYS
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
TOTAL		19	6	21	

THIRD YEAR, SECOND SEMESTER

DYNAMICS-CE	Dynamics of Rigid Bodies	2	0	2	STATICS-CE
MECHDEF-CE	Mechanics of Deformable Bodies	5	0	5	STATICS-CE
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
ENGSURVEYS	Engineering Surveys Lecture	3	0	3	EHSURVEYS, EHSURVEYSL
ENGSURVEYSL	Engineering Surveys Laboratory	0	3	1	Coreq: ENGSURVEYS
BLDGDESIGN2	Building Design 2	1	3	2	BLDGDESIGN1
ADV MATH	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					
STRUCTHEORY1	Structural Theory 1	3	3	4	MECHDEF-CE
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
SOILMECHS	Soil Mechanics	3	0	3	MECHDEF-CE
SOILMECHSL	Soil Mechanics Laboratory	0	3	1	Coreq: SOILMECHS
MECHFLUIDS	Mechanics of Fluids	2	0	2	DYNAMICS-CE, MECHDEF-CE
MECHFLUIDSL	Mechanics of Fluids Laboratory	0	3	1	Coreq: MECHFLUIDS
HIWAYENGG	Highway Engineering	3	0	3	ENGSURVEYS, ENGSURVEYSL
PNESTIMATES	Planning and Estimates	3	0	3	BLDGDESIGN2
PDPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
TOTAL		18	9	21	

FOURTH YEAR, SECOND SEMESTER

STRUCTHEORY2	Structural Theory 2	3	3	4	STRUCTHEORY1
HYDRAULICS	Hydraulics	2	0	2	MECHFLUIDS, MECHFLUIDSL
HYDRAULICSL	Hydraulics Laboratory	0	3	1	Coreq: HYDRAULICS
TRANSENGG	Transportation Engineering	3	0	3	HIWAYENGG
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
CONMATEST	Construction Materials and Testing	2	0	2	MECHDEF-CE
CONMATESTL	Construction Materials and Testing Laboratory	0	3	1	Coreq: CONMATEST
CEPROJ1	Civil Engineering Projects 1	1	3	2	4th Year Standing
CEELECT1	Technical Elective 1	3	0	3	
TOTAL		17	12	21	

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
HYDROGY	Hydrology	3	0	3	MECHFLUIDS, MECHFLUIDSL
RECONDESIGN	Reinforced Concrete Design	3	3	4	STRUCTHEORY2
CEPROJ2	Civil Engineering Projects 2	1	3	2	CEPROJ1, CEOJT
4RIZAL	Life and Works of Rizal	3	0	3	None
CEELECT2	Technical Elective 2	3	0	3	
TOTAL		19	9	22	

FIFTH YEAR, SECOND SEMESTER

WATER	Water Resources Engineering	3	0	3	HYDRAULICS, HYDRAULICSL
FOUNDATION	Foundation Engineering	3	3	4	SOILMECHS, SOILMECHSL, RECONDESIGN
STEEL	Steel and Timber Design	3	3	4	STRUCTHEORY2
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

QUAKE	Earthquake Engineering	3	0	3	STRUCTHEORY2
PRESTRESS	Prestressed Concrete Design	3	0	3	RECONDESIGN
BRIDGE	Bridge Engineering	3	0	3	STRUCTHEORY2
IRRIGATION	Irrigation, Flood Control and Drainage Engineering	3	0	3	HYDRAULICS, HYDRAULICSL
SANITARYENG	Sanitary Engineering	3	0	3	ENVISAFETY
WASTEWATER	Water and Waste Water Engineering	3	0	3	HYDROGY
ENTREPP	Entrepreneurship	3	0	3	5th Year Standing
CONCOSTENG	Construction Cost Engineering	3	0	3	PNESTIMATES
DBMCONST	Database Management in Construction	3	0	3	COMFUN2
TPORTPLAN	Transportation Planning	3	0	3	TRANSENGG
TSYSDESIGN	Transportation Systems Design	3	0	3	TRANSENGG
HWDSAFETY	Highway Design and Traffic Safety	3	0	3	HIWAYENGG
GEOSYNTH	Geosynthetics in Geotechnical Engineering	3	0	3	CONMATEST, CONMATESTL
GEOQUAKE	Geotechnical Earthquake Engineering	3	0	3	STRUCTHEORY2
GLANFILL	Geotechnical Aspects of Landfill Design	3	0	3	5th Year Standing

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.