

HOLY ANGEL UNIVERSITY
COLLEGE OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN AERONAUTICAL ENGINEERING
Program Code: BSAeronautical
SCHOOL YEAR 2014-2015

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
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
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	3	24	

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	Statics of Rigid Bodies	3	0	3	PHYSICS1, PHYSICS1L, INTECAL
ELENGG	Basic Electrical Engineering	3	0	3	PHYSICS2, PHYSICS2L
ESTHERM	Thermodynamics	3	0	3	INTECAL, PHYSICS2, PHYSICS2L
ESENECO	Engineering Economy	3	0	3	3rd Year Standing
AIRMATPROC	Aircraft Materials and Processes	3	0	3	CHEMISTRY, CHEMISTRYL, PHYSICS2, PHYSICS2L
4PRINECO	Principles of Economics with Taxation and Land Reform	3	0	3	None
PROSTAT	Probability and Statistics	3	0	3	ALGEBRA2, 3rd Year Standing
	TOTAL	24	0	24	

THIRD YEAR, SECOND SEMESTER

DYNAMICS	Dynamics of Rigid Bodies	2	0	2	STATICS
ESELECS	Basic Electronics	3	0	3	ELENGG
ENVISAFETY	Environmental Engineering and Safety Management	3	0	3	CHEMISTRY, CHEMISTRYL, 3rd Year Standing
ADNUMET	Advanced Engineering Mathematics with Numerical Methods	3	0	3	DIFEQNS
ESENMGT	Engineering Management	3	0	3	3rd Year Standing
RCENGINES	Reciprocating Engines	4	0	4	ESTHERM, AIRMATPROC
RCENGINESL	Reciprocating Engines Laboratory	0	3	1	Coreq: RCENGINES
FUNDAERO	Fundamentals of Aerodynamics	5	0	5	INTECAL, PHYSICS2, PHYSICS2L
	TOTAL	23	3	24	

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FOURTH YEAR, FIRST SEMESTER

MDEFBOD	Mechanics of Deformable Bodies	3	0	3	STATICS
AFCONREP	Airframe Construction and Repair	2	0	2	AIRMATPROC
AFCONREPL	Airframe Construction and Repair Laboratory	0	6	2	Coreq: AFCONREP
AEROLAB	Aeronautical Laboratory	1	6	3	FUNDAERO
SUBAERO	Applied Subsonic Aerodynamics	5	0	5	FUNDAERO
GASTURBIN	Gas Turbine Engines	4	0	4	ESTHERM
GASTURBINL	Gas Turbine Engines Laboratory	0	3	1	Coreq: GASTURBIN
COMADD1	Computer-Aided Drafting and Design 1	2	3	3	COMFUN2, ADVCAD
	TOTAL	17	18	23	

FOURTH YEAR, SECOND SEMESTER

AIRLAWS	Air Laws and Regulations	3	0	3	4th Year Standing
AIRMAINT	Aircraft Maintenance and Inspection	3	0	3	AIRMATPROC
AIRMAINTL	Aircraft Maintenance and Inspection Laboratory	0	3	1	Coreq: AIRMAINT
SUPERAERO	Applied Supersonic Aerodynamics	5	0	5	SUBAERO
ACSTRUCT1	Aircraft Structure 1	5	0	5	MDEFBOD, ADNUMET, AFCONREP, AFCONREPL
ACRAFTSYS	Aircraft Systems	4	0	4	ESELECS
COMADD2	Computer-Aided Drafting and Design 2	2	3	3	COMADD1
PDPR1	Personality Development and Public Relations	1	0	1	4th Year Standing
	TOTAL	23	6	25	

FOURTH YEAR, SUMMER TERM

AEOJT	Aeronautical Engineering Practice (420 hours OJT)	0	0	3	4th Year Standing
	TOTAL	0	0	3	

FIFTH YEAR, FIRST SEMESTER

AVIONICS	Aircraft Avionics	4	0	4	ACRAFTSYS
ACSTRUCT2	Aircraft Structure 2	5	0	5	ACSTRUCT1
ACDESIGN1	Aircraft Design 1	3	6	5	SUPERAERO, RCENGINES, RCENGINESL, ACRAFTSYS, GASTURBIN, GASTURBINL
AERENMGT	Aerodrome Engineering and Management	3	0	3	ESENMG, AIRLAWS
HELIPROPD	Basic Helicopter and Propeller Design	3	0	3	SUPERAERO, RCENGINES, RCENGINESL, ACRAFTSYS, GASTURBIN, GASTURBINL
AEMERES	Research Methods and Applications	2	0	2	1TECHCOM, PROSTAT, AEOJT
4RIZAL	Life and Works of Rizal	3	0	3	None
	TOTAL	23	6	25	

FIFTH YEAR, SECOND SEMESTER

AVISAFETY	Aviation Safety	2	0	2	ENVISAFETY
ACDESIGN2	Aircraft Design 2	3	6	5	ACDESIGN1, ACSTRUCT2
AIRTRANS	Air Transport Economics and Management	3	0	3	ESENECO, ESENMG, AIRLAWS
RELENGG	Reliability Engineering	3	0	3	ADNUMET, AEMERES
OPERENGG	Operations Engineering	4	0	4	SUBAERO, AERENMG
AETOPICS	Special Topics in Aeronautical Engineering	0	6	2	5th Year Standing
AEROPFS	Project Feasibility Study	3	0	3	ESENECO, AEMERES
	TOTAL	18	12	22	

COURSE TOTAL

245

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.