

HOLY ANGEL UNIVERSITY
SCHOOL OF ENGINEERING AND ARCHITECTURE
BACHELOR OF SCIENCE IN AERONAUTICAL ENGINEERING (BSAeE)
Program Code: BSAeronautical
EFFECTIVE SCHOOL YEAR 2018-2019 (with Amendments)

COURSE CODE	COURSE TITLE	LEC HRS	LAB HRS	CREDIT UNITS	PREREQUISITE(S)/ CO-REQUISITE(S)
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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
COMFUNPROG	Computer Fundamentals and Programming	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 Service	0	3	3	None
TOTAL		20	9	25	

FIRST YEAR, SECOND SEMESTER

4UNDERSELF	Understanding the Self	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
ENGDATA	Engineering Data Analysis	3	0	3	CALC1
ESDRAW	Engineering Drawing	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		20	9	25	

SECOND YEAR, FIRST SEMESTER

9STS	Science, Technology and Society	3	0	3	None
4READPHILHIS	Readings in Philippine History	3	0	3	None
ELEMEE	Elementary Electrical Engineering	3	0	3	EPHYSICS, EPHYSICSL
BASICTRON	Basic Electronics	3	0	3	EPHYSICS, EPHYSICSL
AIRSYSTEMS	Aircraft Systems	2	0	2	None
AIRSYSTEMSL	Aircraft Systems Laboratory	0	3	1	Co-req: AIRSYSTEMS
CAIRLAWS	Civil Air Laws and Regulations	3	0	3	None
HFSAFETY	Human Factors and Aviation Safety	3	0	3	None
7PE3	PE 3 - Physical Activities towards Health and Fitness 1	2	0	2	7PE2
TOTAL		22	3	23	

SECOND YEAR, SECOND SEMESTER

DIFFEQNS	Differential Equations	3	0	3	CALC2
THERMODYN	Thermodynamics	3	0	3	CALC2, EPHYSICS, EPHYSICSL
STATICS-RB	Statics of Rigid Bodies	3	0	3	CALC2, EPHYSICS, EPHYSICSL
AMATCONREP	Aircraft Materials, Construction and Repair	2	0	2	None
AMATCONREPL	Aircraft Materials, Construction and Repair Laboratory	0	3	1	Co-req: AMATCONREP
AVIONICS-AS	Aircraft Avionics and Autopilot Systems	3	0	3	AIRSYSTEMS
ENGGECON	Engineering Economics	3	0	3	2nd Year Standing
ENVISCIENG	Environmental Science and Engineering	3	0	3	CHEMENG, CHEMENGL
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		25	3	26	

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THIRD YEAR, FIRST SEMESTER					
3FIL1	Konstekswalisadong Komunikasyon sa Filipino	3	0	3	None
4ARTAPP	Art Appreciation	3	0	3	None
4CONWORLD	The Contemporary World	3	0	3	None
4ETHICS	Ethics	3	0	3	None
DYNAMICS-RB	Dynamics of Rigid Bodies	2	0	2	STATICS-RB
AE-CAD1	Computer-Aided Drafting and Design 1	0	3	1	ESDRAW
AERONLAB1	Aeronautical Laboratory 1	0	3	1	AMATCONREP
AERODYN1	Aerodynamics 1	5	0	5	THERMODYN
POWERPLANT1	Power Plant 1	3	0	3	THERMODYN
POWERPLANT1L	Power Plant 1 Laboratory	0	3	1	THERMODYN, Co-req: POWERPLANT1
TOTAL		22	9	25	

THIRD YEAR, SECOND SEMESTER

3FIL2	Filipino sa Iba't Ibang Disiplina	3	0	3	3FIL1
4RIZAL	Life and Works of Rizal	3	0	3	None
MECHDB	Mechanics of Deformable Bodies	3	0	3	DYNAMICS-RB
AE-CAD2	Computer-Aided Drafting and Design 2	0	3	1	AE-CAD1
AERONLAB2	Aeronautical Laboratory 2	0	3	1	AERONLAB1
AERODYN2	Aerodynamics 2	5	0	5	AERODYN1
POWERPLANT2	Power Plant 2	3	0	3	POWERPLANT1, POWERPLANT1L
POWERPLANT2L	Power Plant 2 Laboratory	0	3	1	POWERPLANT1, POWERPLANT1L, Co-req: POWERPLANT2
ENGGMGMT	Engineering Management	3	0	3	3rd Year Standing
TECHENTREP	Technopreneurship	3	0	3	ENGGECON
TOTAL		23	9	26	

THIRD YEAR, SUMMER TERM

AEP-OJT	Aeronautical Engineering Practice (OJT - 420 hours)			3	3rd Year Standing, Permission of Program Chair or School Dean
TOTAL				3	

FOURTH YEAR, FIRST SEMESTER

ACSTRUCS1	Aircraft Structures 1	4	0	4	MECHDB
AIRDESIGN1	Aircraft Design 1	3	0	3	AE-CAD2, AERODYN2, 4th Year Standing
AIRDESIGN1L	Aircraft Design 1 Laboratory	0	6	2	AE-CAD2, AERODYN2, 4th Year Standing, Co-req: AIRDESIGN1
HELICOPDES	Basic Helicopter and Propeller Design	2	0	2	AE-CAD2, AERODYN2, 4th Year Standing
HELICOPDESL	Basic Helicopter and Propeller Design Laboratory	0	3	1	AE-CAD2, AERODYN2, 4th Year Standing, Co-req: HELICOPDES
AERODYN3	Aerodynamics 3	5	0	5	AERODYN2
AIRTECOMAN	Air Transport Economics and Management	3	0	3	ENGGECON
AESOS	Strategic Operation, Supply Chain and Material Management	2	0	2	4th Year Standing
RMA-AE	Research Methods and Applications	2	3	3	4th Year Standing
TOTAL		21	12	25	

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FOURTH YEAR, SECOND SEMESTER

1LIT12	Great Books	3	0	3	None
ACSTRUCS2	Aircraft Structures 2	4	0	4	ACSTRUCS1
AIRDESIGN2	Aircraft Design 2	3	0	3	AIRDESIGN1
AIRDESIGN2L	Aircraft Design 2 Laboratory	0	6	2	AIRDESIGN1, Co-req: AIRDESIGN2
UNAERIAL	Unmanned Aerial Vehicle System Design	1	0	1	ACSTRUCS1, AIRDESIGN1
UNAERIALL	Unmanned Aerial Vehicle System Design Laboratory	0	3	1	ACSTRUCS1, AIRDESIGN1, Co-req: UNAERIAL
RELIABENG	Reliability Engineering	3	0	3	4th Year Standing
PRODUCTION	Aircraft Production, Maintenance, Planning and Control	3	0	3	4th Year Standing
AEENMGT	Aerodrome Engineering and Management	3	0	3	4th Year Standing
ELECTIVE	AE Elective	3	0	3	
TOTAL		23	9	26	

PROGRAM TOTAL

204

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. 93, series of 2017: Policies, Standards and Guidelines for the Bachelor of Science in Aeronautical Engineering Program.

TECHNICAL ELECTIVES

ROCKETS	Rocket Propulsion System	3	0	3	4th Year Standing
PFSTUDY	Project Feasibility Study	3	0	3	4th Year Standing
AVIBLCP	Aviation Business Laws, Contracts and Patents	3	0	3	4th Year Standing