

Ateneo de Davao University
 School of Engineering and Architecture
 Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN AEROSPACE ENGINEERING

Course#	Description	Units		Prof	Pre-requisites
		Pay	Credit		
1st Year, 1st Semester					
ASF 1102	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		
ASF 1000	ARRUPE SOCIAL FORMATION 0	2.0	2.0		
ASF 1101	ARRUPE SOCIAL FORMATION 1	2.0	2.0		
GE 1106	PURPOSIVE COMMUNICATION	3.0	3.0		
PE 1114	PATH-FIT I	2.0	2.0		
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	3.0		
Chem 1035	CHEMISTRY FOR ENGINEERS LEC	3.0	3.0		
Chem 1036	CHEMISTRY FOR ENGINEERS LAB	3.0	1.0		
ESM 1030	ENGINEERING CALCULUS 1 (DIFFERENTIAL CALCULUS)	5.0	5.0		
ESM 1033	ENGINEERING DRAWING	3.0	1.0		
Philo 1000	PHILOSOPHY	3.0	3.0		
ESM 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	3.0	0.0		
Total Number of Units			28.0		
1st Year, 2nd Semester					
ASE 1230	INTRODUCTION TO AEROSPACE ENGINEERING	1.0	1.0		
Theo 1000	THEOLOGY	3.0	3.0		
ESM 1031	ENGINEERING CALCULUS 2 (INTEGRAL CALCULUS)	5.0	5.0		ESM 1030
ASF 1203	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE	0.0	3.0		ASF 1102
PE 1215	PATH-FIT II	2.0	2.0		PE 1114
ESM 2036	COMPUTER-AIDED DRAFTING	3.0	1.0		ESM 1033
PHYS 1261	PHYSICS FOR ENGINEERS LEC	3.0	3.0		ESM 1030
PHYS 1262	PHYSICS FOR ENGINEERS LAB	6.0	2.0		ESM 1030
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
Total Number of Units			26.0		
2nd Year, 1st Semester					
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
GE 1107	ART APPRECIATION	3.0	3.0		
GE 1108	MATHEMATICS IN THE MODERN WORLD	3.0	3.0		
EE 2165	FUNDAMENTALS OF ELECTRICAL CIRCUITS LEC	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
EE 2166	FUNDAMENTALS OF ELECTRICAL CIRCUITS LAB	3.0	1.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2040	STATICS OF RIGID BODIES	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2034	DIFFERENTIAL EQUATIONS	3.0	3.0		ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	3.0		ESM 1031
PHYS 2163	MODERN PHYSICS: QUANTUM MECHANICS	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
ME 2131	THERMODYNAMICS 1	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
Total Number of Units			27.0		
2nd Year, 2nd Semester					
ECE 2262	FUNDAMENTALS OF ELECTRONIC CIRCUITS LEC	3.0	3.0		EE 2165, EE 2166
ECE 2263	FUNDAMENTALS OF ELECTRONIC CIRCUITS LAB	3.0	1.0		EE 2165, EE 2166
GE 3118	ELECTIVE 1	0.0	3.0		
ASE 2231	FLUID MECHANICS FOR AE	3.0	3.0		ESM 2040, ME 2131
ASE 2232	ADVANCED MATHEMATICS FOR AE	3.0	3.0		ESM 2034
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
ESM 2042	DYNAMICS OF RIGID BODIES	2.0	2.0		ESM 2040
CHE 2237	CHEMICAL THERMODYNAMICS AND KINETICS	3.0	3.0		Chem 1035, Chem 1036, ESM 2034, ME 2131
GE 1105	UNDERSTANDING THE SELF	3.0	3.0		

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GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
Total Number of Units			<u>3.0</u>		
3rd Year, 1st Semester					
GE 1109	ETHICS	3.0	3.0		
CPE 2171	COMPUTER FUNDAMENTALS & PROGRAMMING	3.0	1.0		
TECH 1001	TECHNOPRENEURSHIP 101	3.0	3.0		
ASE 3133	COMPRESSIBLE FLOW	3.0	3.0		ME 2131, ASE 2231
ASE 3134	INSTRUMENTATION AND CONTROL ENGINEERING FOR AE	3.0	3.0		ECE 2262, ECE 2263
ASE 3132	MATHEMATICAL METHODS FOR AE	3.0	3.0		ASE 2232
ME 3141	MECHANICS OF DEFORMABLE BODIES FOR ME	5.0	5.0		ESM 2040
GE 3219	ELECTIVE 2	0.0	3.0		
CHE 3137	ENVIRONMENTAL SCIENCE & ENGINEERING	3.0	3.0		Chem 1035, Chem 1036
Total Number of Units			<u>33.0</u>		
3rd Year, 2nd Semester					
GE 4120	ELECTIVE 3	3.0	3.0		
ASE 3234	HEAT AND MASS TRANSFER	0.0	3.0		ESM 2034, ME 2131, ASE 2231
ESM 3044	BASIC OCCUPATIONAL SAFETY AND HEALTH	0.0	3.0		
ASE 3235	FUNDAMENTALS OF AERODYNAMICS	0.0	3.0		ME 2131, ASE 2231
ASE 3236	AEROSPACE PROPULSION	0.0	3.0		ASE 3133
ASE 3237	AEROSPACE LAB 1	0.0	2.0		
ASE 3238	MATERIALS SCIENCE AND ENGINEERING FOR AE	0.0	3.0		Chem 1035, Chem 1036, ME 3141
ASE 3239	METHODS OF RESEARCH FOR AE	0.0	1.0		GE 1106, ESM 2035, TECH 1001
ASE 3240	NUMERICAL METHODS FOR AE	0.0	4.0		CPE 2171, ASE 2232
ASE 3241	MECHANICS OF AEROSTRUCTURE	0.0	3.0		ME 3141
Total Number of Units			<u>28.0</u>		
3rd Year, Summer					
ASE 3357	OJT/INDUSTRY PRACTICE	0.0	2.0		ESM 3044, ASE 3235, ASE 3236, ASE 3237, ASE 3241
Total Number of Units			<u>2.0</u>		
4th Year, 1st Semester					
ASE 4142	INTRO TO FINITE ELEMENT METHOD	0.0	3.0		CPE 2171, ME 3141, ASE 2232
ASE 4144	AE PROJECT STUDY 1	0.0	1.0		ASE 3239, ASE 3357
ASE 4145	AIRCRAFT FLIGHT MECHANICS	0.0	3.0		ASE 3235, ASE 3241
ASE 4146	SPACECRAFT DYNAMICS	0.0	3.0		ASE 3235, ASE 3241
ASE 4147	AIRCRAFT DESIGN	0.0	4.0		ASE 3235, ASE 3236, ASE 3241
ASE 4148	SYSTEMS ANALYSIS & CONTROLS LEC	0.0	2.0		ECE 2262, ECE 2263, ASE 2232
ASE 4149	SYSTEMS ANALYSIS & CONTROLS LAB	0.0	1.0		ECE 2262, ECE 2263, ASE 2232
ASE 4150	AEROSPACE LAB 2	0.0	2.0		ASE 3237
ASE 4141	AE ELECTIVE 2	0.0	3.0		
ASE 4140	AE ELECTIVE 1	0.0	3.0		
Total Number of Units			<u>25.0</u>		
4th Year, 2nd Semester					
ASE 4250	AE ELECTIVE 3	0.0	3.0		
ASE 4251	AE ELECTIVE 4	0.0	3.0		
ASE 4252	AE PROJECT STUDY 2	0.0	1.0		ESM 2035, ASE 4144
ASE 4253	AEROSPACE MATERIALS LAB	0.0	2.0		ASE 3238
ASE 4254	SPACECRAFT DESIGN	0.0	4.0		ASE 4145, ASE 4146, ASE 4147

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ASE 4255	INTERNATIONAL AEROSPACE LAWS & REGULATIONS	0.0	2.0		
ASE 4256	SYSTEM DYNAMICS AND VIBRATION	0.0	2.0		ASE 4142
ESM 3043	ENGINEERING ECONOMICS	3.0	3.0		
ESM 3045	ENGINEERING MANAGEMENT	2.0	2.0		
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
Total Number of Units			<u>24.0</u>		