

# Ateneo de Davao University

## School of Engineering and Architecture BACHELOR OF SCIENCE IN ELECTRONICS ENGINEERING Curriculum Effective 2019 - 2020

Course #	Description	Units	Pre-requisites
<b>1st Year, 1st Semester</b>			
ASF 1102	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE TRAINING SERVICE 1	3.0	
ASF 1000	ARRUPE SOCIAL FORMATION 0	2.0	
ASF 1101	ARRUPE SOCIAL FORMATION 1	2.0	
Philo 1000	PHILOSOPHY	3.0	
GE 1107	ART APPRECIATION	3.0	
GE 1108	MATHEMATICS IN THE MODERN WORLD	3.0	
PE 1114	PATH-FIT I	2.0	
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	
Chem 1035	CHEMISTRY FOR ENGINEERS LEC	3.0	
Chem 1036	CHEMISTRY FOR ENGINEERS LAB	1.0	
ESM 1030	ENGINEERING CALCULUS 1 (DIFFERENTIAL CALCULUS)	5.0	
ESM 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	0.0	
Total Number of Units		30.0	
<b>1st Year, 2nd Semester</b>			
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	
GE 1211	THE CONTEMPORARY WORLD	3.0	
Theo 1000	THEOLOGY	3.0	
GE 1105	UNDERSTANDING THE SELF	3.0	
ASF 1203	NATIONAL SERVICE TRAINING PROGRAM - CIVIC WELFARE TRAINING SERVICE 2	3.0	ASF 1102
PE 1215	PATH-FIT II	2.0	PE 1114
ESM 1031	ENGINEERING CALCULUS 2 (INTEGRAL CALCULUS)	5.0	ESM 1030
PHYS 1263	PHYSICS 1 FOR ECE LEC	3.0	ESM 1030
PHYS 1264	PHYSICS 1 FOR ECE LAB	2.0	ESM 1030
Total Number of Units		27.0	
<b>2nd Year, 1st Semester</b>			
PHYS 2165	PHYSICS 2 FOR ECE LEC	3.0	PHYS 1263, PHYS 1264
PHYS 2166	PHYSICS 2 FOR ECE LAB	2.0	PHYS 1263, PHYS 1264
CPE 2169	COMPUTER PROGRAMMING	2.0	
ESM 2034	DIFFERENTIAL EQUATIONS	3.0	ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	ESM 1030
ESM 2036	COMPUTER-AIDED DRAFTING	1.0	
CHE 2234	FUNDAMENTALS OF MATERIALS SCIENCE & ENGINEERING	3.0	Chem 1035, Chem 1036
GE 1106	PURPOSIVE COMMUNICATION	3.0	
GE 1109	ETHICS	3.0	
PE 2116	PATH-FIT III	2.0	PE 1114
Total Number of Units		25.0	
<b>2nd Year, 2nd Semester</b>			
GE 1213	LIFE AND WORKS OF RIZAL	3.0	
EE 2131	ELECTRICAL CIRCUITS 1 LEC	3.0	ESM 1031, PHYS 2165, PHYS 2166
EE 2132	ELECTRICAL CIRCUITS 1 LAB	1.0	ESM 1031, PHYS 2165, PHYS 2166
ESM 3043	ENGINEERING ECONOMICS	3.0	ESM 2035
ECE 2230	ELECTRONIC DEVICES & CIRCUITS LEC	3.0	ESM 1031, PHYS 2165, PHYS 2166
ECE 2231	ELECTRONIC DEVICES & CIRCUITS LAB	1.0	ESM 1031, PHYS 2165, PHYS 2166
PE 2217	PATH-FIT IV	2.0	PE 1114
ECE 2232	ADVANCED ENGINEERING MATHEMATICS FOR ECE	4.0	ESM 2034
CPE 2270	ADVANCED COMPUTER PROGRAMMING	2.0	CPE 2169
CHE 3137	ENVIRONMENTAL SCIENCE & ENGINEERING	3.0	Chem 1035, Chem 1036

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Total Number of Units		25.0	
<b>3rd Year, 1st Semester</b>			
GE 3118	ELECTIVE 1	3.0	
ECE 3133	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN LEC	3.0	ECE 2230, ECE 2231
ECE 3134	ELECTRONIC CIRCUIT ANALYSIS AND DESIGN LAB	1.0	ECE 2230, ECE 2231
ECE 3135	PRINCIPLES OF COMMUNICATION SYSTEM LEC	3.0	ECE 2230, ECE 2231
ECE 3136	PRINCIPLES OF COMMUNICATION SYSTEMS LAB	1.0	ECE 2230, ECE 2231
ECE 3137	ELECTROMAGNETICS FOR ECE	4.0	ESM 2034
TECH 1001	TECHNOPRENEURSHIP 101	3.0	
ESM 3045	ENGINEERING MANAGEMENT	2.0	
EE 2233	ELECTRICAL CIRCUITS 2 LEC	3.0	EE 2131, EE 2132
EE 2234	ELECTRICAL CIRCUITS 2 LAB	1.0	EE 2131, EE 2132
Total Number of Units		24.0	
<b>3rd Year, 2nd Semester</b>			
ECE 3238	ELECTRONIC SYSTEMS AND DESIGN LEC	3.0	ECE 3133, ECE 3134
ECE 3239	ELECTRONIC SYSTEMS AND DESIGN LAB	1.0	ECE 3133, ECE 3134
ECE 3240	MODULATION AND CODING TECHNIQUES LEC	3.0	ECE 3135, ECE 3136
ECE 3241	MODULATION AND CODING TECHNIQUES LAB	1.0	ECE 3135, ECE 3136
ECE 3242	LOGIC CIRCUITS AND SWITCHING THEORY LEC	3.0	ECE 2230, ECE 2231
ECE 3243	LOGIC CIRCUITS AND SWITCHING THEORY LAB	1.0	ECE 2230, ECE 2231
ECE 3244	SIGNALS, SPECTRA AND SIGNAL PROCESSING LEC	3.0	ECE 2232
ECE 3245	SIGNALS, SPECTRA AND SIGNAL PROCESSING LAB	1.0	ECE 2232
ECE 3246	METHODS OF RESEARCH	3.0	GE 1106, TECH 1001
GE 3219	GE ELECTIVE II	3.0	
Total Number of Units		22.0	
<b>3rd Year, Summer</b>			
ECE 3347	ELECTRONICS ENGINEERING IMMERSION / ON-THE-JOB TRAINING	3.0	ECE 3238, ECE 3239, ECE 3240, ECE 3241, ECE 3242, ECE 3243, ECE 3244, ECE 3245, ECE 3246
Total Number of Units		3.0	
<b>4th Year, 1st Semester</b>			
GE 4120	ELECTIVE 3	3.0	
ECE 4148	TRANSMISSION MEDIA, ANTENNA SYSTEM AND DESIGN LEC	3.0	ECE 3137, ECE 3240, ECE 3241
ECE 4149	TRANSMISSION MEDIA, ANTENNA SYSTEM AND DESIGN LAB	1.0	ECE 3137, ECE 3240, ECE 3241
ECE 4150	MICROPROCESSOR AND MICROCONTROLLER SYSTEMS LEC	3.0	ECE 3242, ECE 3243
ECE 4151	MICROPROCESSOR AND MICROCONTROLLER SYSTEMS LAB	1.0	ECE 3242, ECE 3243
ECE 4152	FEEDBACK AND CONTROL SYSTEMS LEC	3.0	ECE 2232
ECE 4153	FEEDBACK AND CONTROL SYSTEMS LAB	1.0	ECE 2232
ECE 4154	ECE ELECTIVE 1	4.0	ECE 3347
ECE 4155	DESIGN 1 / CAPSTONE PROJECT 1	1.0	ECE 3347
Total Number of Units		20.0	
<b>4th Year, 2nd Semester</b>			
ECE 4256	DATA COMMUNICATIONS LEC	3.0	ECE 3240, ECE 3241
ECE 4257	DATA COMMUNICATIONS LAB	1.0	ECE 3240, ECE 3241
ECE 4258	ECE LAWS, CONTRACTS, ETHICS, STANDARDS AND SAFETY	3.0	
ECE 4259	SEMINARS / COLLOQUIUM	1.0	ECE 3347
ECE 4260	ECE ELECTIVE 2	4.0	ECE 3347
ECE 4261	DESIGN 2 / CAPSTONE PROJECT 2	1.0	ECE 4155
ASF 4204	SENIORS' INTEGRATION PROGRAM	2.0	
Total Number of Units		15.0	