

Ateneo de Davao University
 School of Engineering and Architecture
 Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN ELECTRICAL 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		
Philo 1000	PHILOSOPHY	3.0	3.0		
GE 1107	ART APPRECIATION	3.0	3.0		
GE 1108	MATHEMATICS IN THE MODERN WORLD	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 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	3.0	0.0		
Total Number of Units			<u>30.0</u>		
1st Year, 2nd Semester					
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 1031	ENGINEERING CALCULUS 2 (INTEGRAL CALCULUS)	5.0	5.0		ESM 1030
ESM 2036	COMPUTER-AIDED DRAFTING	3.0	1.0		
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
Theo 1000	THEOLOGY	3.0	3.0		
GE 1105	UNDERSTANDING THE SELF	3.0	3.0		
PHYS 1261	PHYSICS FOR ENGINEERS LEC	3.0	3.0		ESM 1030
PHYS 1262	PHYSICS FOR ENGINEERS LAB	6.0	2.0		ESM 1030
EE 1230	BUILDING WIRING TECHNOLOGY AND MOTOR CONTROLS	6.0	2.0		
Total Number of Units			<u>27.0</u>		
2nd Year, 1st Semester					
EE 2131	ELECTRICAL CIRCUITS 1 LEC	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
EE 2132	ELECTRICAL CIRCUITS 1 LAB	3.0	1.0		ESM 1031, PHYS 1261, PHYS 1262
CPE 2171	COMPUTER FUNDAMENTALS & PROGRAMMING	3.0	1.0		
ME 2131	THERMODYNAMICS 1	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
ESM 2037	ENGINEERING MECHANICS	3.0	3.0		ESM 1031, PHYS 1261, PHYS 1262
GE 1106	PURPOSIVE COMMUNICATION	3.0	3.0		
GE 1109	ETHICS	3.0	3.0		
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
ESM 2034	DIFFERENTIAL EQUATIONS	3.0	3.0		ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	3.0		ESM 1031
Total Number of Units			<u>25.0</u>		
2nd Year, 2nd Semester					
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
EE 2233	ELECTRICAL CIRCUITS 2 LEC	3.0	3.0		EE 2131, EE 2132
EE 2234	ELECTRICAL CIRCUITS 2 LAB	3.0	1.0		EE 2131, EE 2132
EE 2235	ELECTROMAGNETICS	4.0	4.0		ESM 2034, PHYS 1261, PHYS 1262
EE 2236	ENGINEERING MATHEMATICS FOR EE	3.0	3.0		ESM 2034
ESM 2046	FUNDAMENTALS OF DEFORMABLE BODIES	2.0	2.0		ESM 2037
CPE 2272	ADVANCED COMPUTER PROGRAMMING	3.0	1.0		CPE 2171
ECE 2230	ELECTRONIC DEVICES & CIRCUITS LEC	3.0	3.0		EE 2131, EE 2132

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

Course#	Description	Units		Prof	Pre-requisites
		Pay	Credit		
ECE 2231	ELECTRONIC DEVICES & CIRCUITS LAB	3.0	1.0		EE 2131, EE 2132
Total Number of Units			26.0		
3rd Year, 1st Semester					
EE 3137	ELECTRICAL MACHINES 1 LEC	2.0	2.0		EE 2233, EE 2234, EE 2235, EE 2236
EE 3138	ELECTRICAL MACHINES 1 LAB	3.0	1.0		EE 2233, EE 2234, EE 2235, EE 2236
EE 3139	EE LAWS, CODES AND PROFESSIONAL ETHICS	2.0	2.0		GE 1109, EE 2233, EE 2234
EE 3140	NUMERICAL METHODS AND ANALYSIS LEC	2.0	2.0		EE 2236
EE 3141	NUMERICAL METHODS AND ANALYSIS LAB	3.0	1.0		EE 2236
CPE 3173	LOGIC CIRCUITS AND SWITCHING THEORY LEC	2.0	2.0		ECE 2230, ECE 2231
CPE 3174	LOGIC CIRCUITS AND SWITCHING THEORY LAB	3.0	1.0		ECE 2230, ECE 2231
ESM 3047	FLUID MECHANICS	0.0	2.0		ESM 2037
ECE 3266	FUNDAMENTALS OF ELECTRONIC COMMUNICATIONS	0.0	3.0		EE 2236, ECE 2230, ECE 2231
ESM 3043	ENGINEERING ECONOMICS	3.0	3.0		ESM 2035
GE 3118	ELECTIVE 1	0.0	3.0		
CHE 3137	ENVIRONMENTAL SCIENCE & ENGINEERING	3.0	3.0		Chem 1035, Chem 1036
Total Number of Units			25.0		
3rd Year, 2nd Semester					
GE 3219	GE ELECTIVE II	0.0	3.0		
ESM 3044	BASIC OCCUPATIONAL SAFETY & HEALTH	3.0	3.0		
ECE 4264	INDUSTRIAL ELECTRONICS LEC	0.0	3.0		EE 2236, ECE 2230, ECE 2231
ECE 4265	INDUSTRIAL ELECTRONICS LAB	0.0	1.0		EE 2236, ECE 2230, ECE 2231
EE 3242	ELECTRICAL MACHINES 2 LEC	0.0	3.0		EE 3137, EE 3138
EE 3243	ELECTRICAL MACHINES 2 LAB	0.0	1.0		EE 3137, EE 3138
EE 3244	ELECTRICAL APPARATUS AND DEVICES LEC	0.0	2.0		EE 3137, EE 3138
EE 3245	ELECTRICAL APPARATUS AND DEVICES LAB	0.0	1.0		EE 3137, EE 3138
EE 3246	ELECTRICAL STANDARDS AND PRACTICES	0.0	1.0		EE 3137, EE 3138, EE 3139
EE 3247	RESEARCH METHODS	0.0	1.0		ESM 2035, EE 3137, EE 3138
CHE 3265	MATERIAL SCIENCE AND ENGINEERING	0.0	2.0		Chem 1035, Chem 1036, ESM 2046
CPE 3275	MICROPROCESSOR SYSTEMS	0.0	2.0		CPE 3173, CPE 3174
Total Number of Units			23.0		
3rd Year, Summer					
EE 3348	ON-THE-JOB-TRAINING	0.0	2.0		ESM 3044, EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
Total Number of Units			2.0		
4th Year, 1st Semester					
EE 4149	ELECTRICAL SYSTEMS AND ILLUMINATION ENGINEERING	0.0	3.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
EE 4150	ELECTRICAL SYSTEMS AND ILLUMINATION ENGINEERING	0.0	2.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
EE 4151	FEEDBACK CONTROL SYSTEMS	0.0	2.0		EE 2236, ECE 2230, ECE 2231
EE 4152	POWER SYSTEMS ANALYSIS LEC	0.0	3.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
EE 4153	POWER SYSTEMS ANALYSIS LAB	0.0	1.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
EE 4154	RESEARCH PROJECT OR CAPSTONE DESIGN PROJECT 1	0.0	1.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246, EE 3247
EE 4155	MANAGEMENT OF ENGINEERING PROJECTS	0.0	2.0		ESM 3043
EE 4156	PROFESSIONAL ELECTIVE 1	0.0	3.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
GE 4120	ELECTIVE 3	3.0	3.0		

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

Course#	Description	Units		Prof	Pre-requisites
		Pay	Credit		
TECH 1001	TECHNOPRENEURSHIP 101	3.0	3.0		
Total Number of Units			<u>23.0</u>		

4th Year, 2nd Semester

ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
EE 4257	DISTRIBUTION SYSTEMS AND SUBSTATION DESIGN LEC	0.0	2.0		EE 4152, EE 4153
EE 4258	DISTRIBUTION SYSTEMS AND SUBSTATION DESIGN LAB	0.0	1.0		EE 4152, EE 4153
EE 4259	FUNDAMENTALS OF POWER PLANT ENGINEERING DESIGN	0.0	1.0		EE 4152, EE 4153
EE 4260	INSTRUMENTATION AND CONTROL LEC	0.0	2.0		EE 4151
EE 4261	INSTRUMENTATION AND CONTROL LAB	0.0	1.0		EE 4151
EE 4262	RESEARCH PROJECT OR CAPSTONE DESIGN PROJECT 2	0.0	1.0		EE 4154
EE 4263	SEMINARS / COLLOQUIA	0.0	1.0		EE 3242, EE 3243, EE 3244, EE 3245, EE 3246
EE 4264	PROFESSIONAL ELECTIVE 2	0.0	3.0		EE 4156
Total Number of Units			<u>14.0</u>		