

Ateneo de Davao University
 School of Engineering and Architecture
 Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN COMPUTER 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		
CPE 1130	PROGRAMMING LOGIC AND DESIGN	6.0	2.0		
ESM 1000	FUNDAMENTALS OF ENGINEERING MATHEMATICS	3.0	0.0		
Total Number of Units			<u>32.0</u>		
1st Year, 2nd Semester					
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		
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		
PHYS 1261	PHYSICS FOR ENGINEERS LEC	3.0	3.0		ESM 1030
PHYS 1262	PHYSICS FOR ENGINEERS LAB	6.0	2.0		ESM 1030
CPE 1231	OBJECT-ORIENTED PROGRAMMING	6.0	2.0		CPE 1130
CPE 1232	COMPUTER ENGINEERING AS A DISCIPLINE	1.0	1.0		
Total Number of Units			<u>28.0</u>		
2nd Year, 1st Semester					
CPE 2133	DISCRETE MATHEMATICS FOR ENGINEERS	3.0	3.0		ESM 1030
CPE 2134	DATA STRUCTURES AND ALGORITHMS	6.0	2.0		CPE 1231
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 2034	DIFFERENTIAL EQUATIONS	3.0	3.0		ESM 1031
ESM 2035	ENGINEERING DATA ANALYSIS	3.0	3.0		ESM 1030
GE 3118	ELECTIVE 1	0.0	3.0		
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
Total Number of Units			<u>26.0</u>		
2nd Year, 2nd Semester					
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
ESM 3043	ENGINEERING ECONOMICS	3.0	3.0		ESM 2035
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
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
CPE 2235	SOFTWARE DESIGN LEC	3.0	3.0		CPE 2134
CPE 2236	SOFTWARE DESIGN LAB	3.0	1.0		CPE 2134

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CPE 2237	NUMERICAL METHODS LEC	3.0	3.0		ESM 2034
CPE 2238	NUMERICAL METHODS LAB	3.0	1.0		ESM 2034
GE 3219	GE ELECTIVE II	0.0	3.0		
Total Number of Units			26.0		

3rd Year, 1st Semester

CPE 3139	CPE ELECTIVE 1	3.0	3.0		ECE 2262, ECE 2263
CPE 3142	DATA AND DIGITAL COMMUNICATIONS	0.0	3.0		ECE 2262, ECE 2263
CPE 3143	COMPUTER ENGINEERING DRAFTING & DESIGN	3.0	1.0		ECE 2262, ECE 2263
CPE 3144	FEEDBACK AND CONTROL SYSTEMS	0.0	3.0		EE 2165, EE 2166, CPE 2237, CPE 2238
CPE 3145	INTRODUCTION TO HDL	3.0	1.0		CPE 1130, ECE 2262, ECE 2263
TECH 1001	TECHNOPRENEURSHIP 101	3.0	3.0		
CPE 3140	LOGIC CIRCUITS AND DESIGN LEC	3.0	3.0		ECE 2262, ECE 2263
CPE 3141	LOGIC CIRCUITS AND DESIGN LAB	3.0	1.0		ECE 2262, ECE 2263
GE 4120	ELECTIVE 3	3.0	3.0		
Total Number of Units			21.0		

3rd Year, 2nd Semester

ESM 3045	ENGINEERING MANAGEMENT	2.0	2.0		ESM 3043
CPE 3246	CPE ELECTIVE 2	0.0	3.0		CPE 3139
CPE 3247	MICROPROCESSORS LEC	0.0	3.0		CPE 3140, CPE 3141
CPE 3248	MICROPROCESSORS LAB	0.0	1.0		CPE 3140, CPE 3141
CPE 3249	DIGITAL SIGNAL PROCESSING LEC	0.0	3.0		CPE 3144
CPE 3250	DIGITAL SIGNAL PROCESSING LAB	0.0	1.0		CPE 3144
CPE 3251	FUNDAMENTALS OF MIXED SIGNALS & SENSORS	0.0	3.0		ECE 2262, ECE 2263
CPE 3252	METHODS OF RESEARCH	0.0	2.0		ESM 2035, TECH 1001
CPE 3253	OPERATING SYSTEMS	0.0	3.0		CPE 2134
Total Number of Units			21.0		

3rd Year, Summer

CPE 3368	ON-THE-JOB TRAINING	0.0	3.0		CPE 3252
Total Number of Units			3.0		

4th Year, 1st Semester

CPE 4154	CPE ELECTIVE 3	0.0	3.0		CPE 3246
CPE 4155	COMPUTER ARCHITECTURE & ORGANIZATION LEC	0.0	3.0		
CPE 4156	COMPUTER ARCHITECTURE & ORGANIZATION LAB	0.0	1.0		CPE 3247, CPE 3248
CPE 4157	COMPUTER NETWORKS AND SECURITY LEC	0.0	3.0		CPE 3142
CPE 4158	COMPUTER NETWORKS AND SECURITY LAB	0.0	1.0		CPE 3142
CPE 4159	EMBEDDED SYSTEMS LEC	0.0	3.0		CPE 3247, CPE 3248
CPE 4160	EMBEDDED SYSTEMS LAB	0.0	1.0		CPE 3247, CPE 3248
CPE 4161	CPE LAWS AND PROFESSIONAL PRACTICE	0.0	2.0		CPE 1232
CPE 4162	CPE PRACTICE ABND DESIGN 1	0.0	1.0		CPE 3247, CPE 3248, CPE 3252
CPE 4163	BASIC OCCUPATIONAL HEALTH AND SAFETY	0.0	3.0		
Total Number of Units			21.0		

4th Year, 2nd Semester

CPE 4264	EMERGING TECHNOLOGIES IN CPE	0.0	3.0		CPE 4161
CPE 4265	SEMINARS AND FIELD TRIPS	0.0	1.0		CPE 4161
CPE 4266	CPE PRACTICE AND DESIGN 2	0.0	2.0		CPE 4162
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		

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Total Number of Units			8.0		