Ateneo de Davao University
School of Arts and Sciences
Curriculum Effective 2019 - 2020
BACHELOR OF SCIENCE IN COMPUTER SCIENCE

Course#	Description	Units Pay	Units Credit	Prof	Pre-requisites
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 1105	UNDERSTANDING THE SELF	3.0	3.0		
GE 1106	PURPOSIVE COMMUNICATION	3.0	3.0		
Philo 1000	PHILOSOPHY	3.0	3.0		
GE 1108	MATHEMATICS IN THE MODERN WORLD	3.0	3.0		
PE 1114	PATH-FIT I	2.0	2.0		
CS 1130	INTRODUCTION TO COMPUTING	5.0	3.0		
CS 1131	COMPUTER PROGRAMMING 1	5.0	3.0		
	Total Number of Units		27.0		
1st Year, 2nd Semester					
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
Theo 1000	THEOLOGY	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
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	3.0	3.0		
CS 1232	DISCRETE STRUCTURES 1	3.0	3.0		
CS 1233	COMPUTER PROGRAMMING 2	5.0	3.0		CS 1131
	Total Number of Units		23.0		
1st Year, Summer					
CS 1334	DISCRETE STRUCTURES 2	3.0	3.0		
MATH 1368	COLLEGE TRIGONOMETRY	3.0	3.0		
	Total Number of Units		6.0		
2nd Year, 1st Semester					
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
CS 2136	OBJECT-ORIENTED PROGRAMMING	5.0	3.0		CS 1233
CS 2137	INFORMATION MANAGEMENT	5.0	3.0		CS 1233
MATH 2171	DIFFERENTIAL CALCULUS	5.0	5.0		MATH 1368
GE 1109	ETHICS	3.0	3.0		
GE 1107	ART APPRECIATION	3.0	3.0		
GE 3118	ELECTIVE 1	3.0	3.0		
CS 2135	DATA STRUCTURES AND ALGORITHMS	5.0	3.0		CS 1334, CS 1233
	Total Number of Units		25.0		
2nd Year, 2nd Semester					
MATH 2272	INTEGRAL CALCULUS	5.0	5.0		MATH 2171
CS 2240	APPLICATIONS DEVELOPMENT AND EMERGING	5.0	3.0		CS 2137
IT 2241	EVENT-DRIVEN PROGRAMMING	5.0	3.0		CS 2136
GE 3219	ELECTIVE 2	3.0	3.0		
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
CS 2238	BASIC ELECTRONICS	5.0	5.0		
CS 2239	SOFTWARE ENGINEERING 1	5.0	3.0		CS 2136
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
	Total Number of Units		27.0		

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3rd Year, 1st Semester					
MATH 2138	LINEAR ALGEBRA	3.0	3.0		GE 1108
CS 3142	ALGORITHMS AND COMPLEXITY	3.0	3.0		CS 2135
CS 3143	AUTOMATA THEORY AND FORMAL LANGUAGES	3.0	3.0		CS 2135
GE 4120	ELECTIVE 3	3.0	3.0		
CS 3145	SOFTWARE ENGINEERING 2	5.0	3.0		
CS 3144	HUMAN COMPUTER INTERACTION	3.0	3.0		CS 2136
	Total Number of Units		18.0		
3rd Year, 2nd Semester					
CS 3249	PROGRAMMING LANGUAGES	0.0	3.0		
MATH 3274	PROBABILITY AND STATISTICS	0.0	3.0		MATH 2272
CS 3247	NETWORKS AND COMMUNICATIONS	0.0	3.0		
CS 3246	ELECTIVE MATH/CS ELECTIVE 1	0.0	3.0		
CS 3248	CS THESIS WRITING 1	0.0	3.0		
	Total Number of Units		15.0		
3rd Year, Summer					
CS 3350	CS PRACTICUM	0.0	3.0		CS 3145
	Total Number of Units		3.0		
4th Year, 1st Semester					
CS 4151	CS ELECTIVE 2	0.0	3.0		CS 2135
CS 4152	DIGITAL DESIGN	0.0	3.0		CS 2135
CS 4153	OPERATING SYSTEMS	0.0	3.0		CS 2135
CS 4155	CS ELECTIVE 3	0.0	3.0		
CS 4154	CS THESIS WRITING 2	0.0	3.0		CS 3248
	Total Number of Units		15.0		
4th Year, 2nd Semester					
CS 4256	CS ELECTIVE 4	0.0	3.0		CS 3246
CS 4257	ARCHITECTURE AND ORGANIZATION	0.0	3.0		CS 4152
IT 4258	INFORMATION ASSURANCE AND SECURITY 1	0.0	3.0		GE 1109
CS 4253	SOCIAL ISSUES AND PROFESSIONAL PRACTICE	0.0	3.0		GE 1109, CS 3350
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
	Total Number of Units		14.0		