

Ateneo de Davao University
 School of Arts and Sciences
 Curriculum Effective 2020 - 2021
 Bachelor of Science in Data Science

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 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		
DSC 1130	INTRODUCTION TO COMPUTING	0.0	3.0		
DSC 1131	COMPUTER PROGRAMMING 1	5.0	3.0		
Total Number of Units			27.0		
1st Year, 2nd Semester					
DSC 1232	DISCRETE STRUCTURES 1	0.0	3.0		
DSC 1233	COMPUTER PROGRAMMING 2	0.0	3.0		DSC 1131
GE 1210	READINGS IN PHILIPPINE HISTORY	3.0	3.0		
GE 1211	THE CONTEMPORARY WORLD	3.0	3.0		
GE 1212	SCIENCE, TECHNOLOGY AND SOCIETY	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
Theo 1000	THEOLOGY	3.0	3.0		
MATH 2171	DIFFERENTIAL CALCULUS	5.0	5.0		
Total Number of Units			28.0		
2nd Year, 1st Semester					
MATH 2138	LINEAR ALGEBRA	3.0	3.0		GE 1108
MATH 2272	INTEGRAL CALCULUS	5.0	5.0		MATH 2171
GE 3118	ELECTIVE 1	3.0	3.0		
GE 1109	ETHICS	3.0	3.0		
GE 1107	ART APPRECIATION	3.0	3.0		
PE 2116	PATH-FIT III	2.0	2.0		PE 1114
DSC 2134	INFORMATION MANAGEMENT AND DATABASES	0.0	3.0		DSC 1233
DSC 2135	OBJECT ORIENTED PROGRAMMING	0.0	3.0		DSC 1233
Total Number of Units			25.0		
2nd Year, 2nd Semester					
DSC 2236	LINEAR MODELS	0.0	3.0		MATH 2138
DSC 2237	BUSINESS INTELLIGENCE	0.0	3.0		
DSC 2238	DATA SCIENCE FUNDAMENTALS	0.0	3.0		
DSC 2239	DATA STRUCTURES AND ALGORITHMS	0.0	3.0		DSC 1232, DSC 1233
PE 2217	PATH-FIT IV	2.0	2.0		PE 1114
GE 1213	LIFE AND WORKS OF RIZAL	3.0	3.0		
GE 3219	ELECTIVE 2	3.0	3.0		
MATH 3274	PROBABILITY AND STATISTICS	0.0	3.0		MATH 2272
DSC 2240	PHYSICS FOR COMPUTING	0.0	5.0		
Total Number of Units			28.0		
3rd Year, 1st Semester					
GE 4120	ELECTIVE 3	3.0	3.0		
DSC 3140	NONLINEAR MODELS	0.0	5.0		DSC 2236
DSC 3141	MACHINE LEARNING 1	0.0	3.0		DSC 2236

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DSC 3242	DATA VISUALIZATION	0.0	3.0		DSC 2238
DSC 3143	ALGORITHMS AND COMPLEXITY	0.0	3.0		DSC 2239
DSC 3144	DS ELECTIVE 1	0.0	3.0		
DSC 3145	INTRODUCTION TO ARTIFICIAL INTELLIGENCE	0.0	3.0		
Total Number of Units			23.0		
3rd Year, 2nd Semester					
DSC 3246	SOFTWARE ENGINEERING	0.0	3.0		DSC 2135
DSC 3247	MULTIVARIATE STATISTICS	0.0	3.0		MATH 3274
DSC 3248	MACHINE LEARNING 2	0.0	3.0		DSC 3141
DSC 3249	DATA WAREHOUSING	0.0	3.0		
DSC 3250	PROGRAMMING PARADIGMS AND LANGUAGES	0.0	3.0		
DSC 3251	DS THESIS WRITING 1	0.0	3.0		
Total Number of Units			18.0		
3rd Year, Summer					
DSC 3352	DS PRACTICUM	0.0	3.0		DSC 3246
Total Number of Units			3.0		
4th Year, 1st Semester					
DSC 4153	DS ELECTIVE 2	0.0	3.0		
DSC 4154	APPLICATIONS DEVELOPMENT AND EMERGING	0.0	3.0		
DSC 4156	DS ELECTIVE 3	0.0	3.0		
DSC 4157	WORKING WITH BIG DATA	0.0	3.0		DSC 2238
DSC 4155	DS THESIS WRITING 2	0.0	3.0		DSC 3246
Total Number of Units			15.0		
4th Year, 2nd Semester					
ASF 4204	SENIORS' INTEGRATION PROGRAM	0.0	2.0		
DSC 4258	DS ELECTIVE 4	0.0	3.0		
DSC 4259	INTELLIGENT SYSTEMS	0.0	3.0		DSC 3145
DSC 4260	MODELING AND SIMULATION	0.0	3.0		DSC 3145
DSC 4261	SOCIAL ISSUES AND PROFESSIONAL PRACTICE	0.0	3.0		GE 1109, DSC 3352
Total Number of Units			14.0		