

BACHELOR OF SCIENCE IN APPLIED MATHEMATICS



BS APPLIED MATHEMATICS DATA SCIENCE TRACK

FIRST SEMESTER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
GED0101	College Academic Skills in English	3		
GED0102	Life and Works of Rizal	3		
GED0106	Arts Appreciation	3		
GED0110	Understanding the Self	3		
APM1101	Fundamental Concepts of Mathematics	3		
APM1103	Fundamentals of Computing 1	4		
APM1121	Calculus 1	4		
WRP0201	Wellness and Recreation Program 1	1.5		
NST0101	National Service Training Program 1	3		
	Total Units	27.5		

SECOND SEMESTER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
GED0103	Mathematics in the Modern World	3		
GED0109	Speech Communication	3		
GED0116	Retorika	3		
APM1105	Fundamentals of Computing 2 with Python	2	1	APM1103
APM1107	Discrete Mathematics	3		
APM1122	Calculus 2	4		APM1121
ITC1101	Multimedia 1	2	1	
WRP0202	Wellness and Recreation Program 2	1.5		WRP0101
NST0102	National Service Training Program 2	3		
	Total Units	24.5	2	

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Course Code	Course Title	Lec.	Lab.	Pre-Requisites
GED0119	Purposive Communication	3		GED0101
GED0113	The Filipino in the Contemporary World	3		
APM1123	Calculus 3	4		APM1122
APM1201	Data Structures and Algorithms with Python	2	1	APM1105
APM1301	General Physics 1 - Lecture	3		
APM1302	General Physics 1 - Laboratory		1	
ITC1105	Database Management Systems 1	2	1	APM1104, APM1105
WRP0203	Wellness and Recreation Program 3	1.5		
	Total Units	18.5	3	

SECOND SEMESTER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
GED0107	Readings in Philippine History	3		
GED0120	Scholarly Inquiry	3		GED0119
GED0114	Applied Ethics in Contemporary Times	3		
APM1110	Probability & Probability Distributions	2	1	APM1101
APM1303	General Physics 2	3		APM1301, APM1302
ITC1104	Web Programming	2	1	ITC1101, APM1105
WRP0204	Wellness and Recreation Program 4	1.5		
	Total Units	17.5	2	

SUMMER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
GED0104	Science, Technology, and Society	3		
GED0117	Culture, Society, Ideas, and Innovations	3		
GED0118	Talakayan sa Makabuluhang Araling Pangkultura, Panlipunan at Reyalistikong Usapin sa Wika	3		
	Total Units	9		

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Course Code	Course Title	Lec.	Lab.	Pre-Requisites
APM1111	Statistical Theory	2	1	APM1110
APM1124	Differential Equations 1	3		APM1123
APM1127	Linear Algebra	3		APM1123
APM1129	Advanced Calculus 1	3		APM1123
DSC1101	Introduction to Data Science	2	1	APM1123, APM1110, ITC1105
DSC1103	Data Warehousing and Management	2	1	APM1110, APM1201
WRP0205	Wellness and Recreation Program 5	1.5		
	Total Units	16.5	3	

SECOND SEMESTER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
APM1131	Theory of Interest	3		APM1101, APM1121
APM1134	Operations Research 1	2	1	APM1127
APM1137	Numerical Analysis	3		APM1124, APM1127
APM1205	Linear Models	2	1	APM1111, APM1127
DSC1105	Exploratory Data Analysis	2	1	APM1111, APM1201
DSC1107	Data Mining and Wrangling	2	1	DSC1101, DSC1103
WRP0206	Wellness and Recreation Program 6	1.5		
	Total Units	15.5	4	

SUMMER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
DSC1111	Data Visualization and Storytelling	2	1	DSC1101, DSC1103, DSC1105
APM1210	Statistical Computing	2	1	APM1111, DSC1107
	Total Units	4	2	

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FIRST SEMESTER

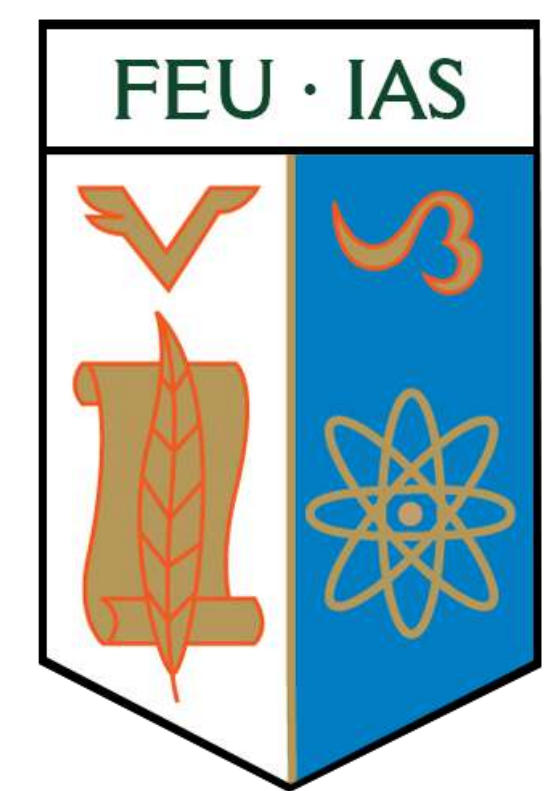
Course Code	Course Title	Lec.	Lab.	Pre-Requisites
APM1140	Mathematical Modeling	2	1	APM1111, APM1124, APM1127
APM1215	Time Series Analysis	2	1	APM1110, DSC1103, APM1205
APM1220	Applied Multivariate Data Analysis	2	1	APM1111, APM1205
DSC1109	Machine Learning	2	1	DSC1101, DSC1103, DSC1105
DSC1117	Cloud Computing	2	1	DSC1107, DSC1111, APM1205
DSC1201	Capstone Project 1	2	1	DSC1107, DSC1111, APM1205
WRP0207	Wellness and Recreation Program 7	1.5		
	Total Units	13.5	6	

SECOND SEMESTER

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
DSC1113	Big Data Analytics	2	1	DSC1107, DSC1111, APM1205
DSC1115	Predictive Analytics	2	1	DSC1107, DSC1111, APM1205
DSC1202	Capstone Project 2	2	1	DSC1201
ELS1309	Technical Writing for the Professions	3		
	Free Elective 1	3		
	Free Elective 2	3		
WRP0208	Wellness and Recreation Program 8	1.5		
	Total Units	16.5	3	

ELECTIVES

Course Code	Course Title	Lec.	Lab.	Pre-Requisites
MGT1101	Leadership and Decision Making	3		DSC1101, DSC1103, DSC1105
MGT1104	Organizational Behavior	3		APM1111, DSC1107
ACT1101	Financial Accounting and Reporting	2	1	
MGT1107	Management Science	3		



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