BACHELOR OF SCIENCE IN MATHEMATICS

EFFECTIVE ACADEMIC YEAR 2018-2019

(Updated Program of Study as of Academic Year 2020-2021)

COURSE CODE	COURSE TITLE	HOURS LEC	HOURS LAB	UNITS	PRE-REQUISITE
FIRST YEAR					
FIRST SEMESTER		15	3	21	
MATH137A	Calculus 1 with Analytic Geometry	4	0	4	Precalculus Mathematics (Algebra and Trigonometry)
CSIT121	Fundamentals of Programming/ Computing I	2	3	3	Precalculus
MATH031	Mathematics in the Modern World	3	0	3	
ENGL031	Purposive Communication	3	0	3	
PSYCH031	Understanding the Self	3	0	3	
PE103	Movement Enhancement			2	
NSTP111	National Service Training Program 1			3	
SECOND SEMESTER		15	3	21	
MATH138A	Calculus II	4	0	4	MATH137A
MATH152	Fundamental Concepts of Math	3	0	3	Precalculus
CSIT112	Discrete Structures 1	3	0	3	Precalculus
CSIT122	Intermediate Programming	2	3	3	CSIT121
SOCSCI031	Readings in Philippine History	3	0	3	
PE104	Fitness Exercises			2	PE103
NSTP112	National Service Training Program 2			3	
SECOND YEAR					
FIRST SEMESTER		18	6	22	
MATH215	Calculus III	4	0	4	MATH138A
MATH233	Abstract Algebra 1	3	0	3	MATH152
MATH235	Linear Algebra	3	0	3	MATH152
PHYS231	General Physics, lec	3	0	3	Precalculus
PHYS281	General Physics, lab	0	3	1	Precalculus
CSIT221	Data Structures and Algorithms	2	3	3	CSIT122
CS231	Discrete Stuctures 2	3	0	3	CSIT112
PE205	Physical Activities Towards Health and Fitness I			2	PE103
SECOND SEMESTER		20	3	23	
MATH232	Advanced Calculus 1	3	0	3	MATH215
MATH234	Abstract Algebra 2	3	0	3	MATH233
MATH236	Probability Theory	3	0	3	MATH215
MATH238	Modern Geometry	3	0	3	MATH235; MATH233
CSIT227	Object-oriented Programming	2	3	3	CSIT122
ENGL014	Technical Writing/ Communication	3	0	3	
PHILO031	Ethics	3	0	3	
PE206	Physical Activities Towards Health and Fitness II			2	PE103

THIRD YEAR					
FIRST SEMESTER		**24**	**0**	**24**	
MATH237	Differential Equations	3	0	3	MATH215
MATH335	Advanced Calculus 2	3	0	3	MATH232
STAT337	Statistical Theory	3	0	3	MATH152; MATH 215
CHEM113	Inorganic Chemistry, lec	3	0	3	
SOCSCI032	The Contemporary World	3	0	3	
GE-MATH1	General Education Elective 1	3	0	3	
RIZAL031	The Life and Works of Rizal	3	0	3	
SECOND SEMESTER		**18**	**0**	**18**	
MATH334	Numerical Analysis	3	0	3	MATH237; MATH235
MATH336	Number Theory	3	0	3	MATH152
THESIS338	Research 1	3	0	3	MATH335
CSIT212	Quantitative Methods	3	0	3	CSIT112
GE-MATH2	General Education Elective 2	3	0	3	
HUM031	Art Appreciation	3	0	3	
FOURTH YEAR					
FIRST SEMESTER		**14**	**3**	**15**	
MATH431	Complex Analysis	3	0	3	MATH232
THESIS435	Research 2	3	0	3	THESIS338
IT365	Data Analytics 1	2	3	3	CSIT212
FREE EL1	Free Elective 1	3	0	3	
STS031	Science, Technology and Society	3	0	3	
SECOND SEMESTER		**12**	**0**	**12**	
MATH432	Practicum	6	0	6	THESIS435
FREE EL2	Free Elective 2	3	0	3	
GE-MATH3	General Education Elective 3	3	0	3	
GRAND TOTAL		**133**	**18**	**153**	
RECOMMENDED FREE ELECTIVES					
Any relevant courses under the BSCS and BSIT curricula without pre-requisites					
Any relevant professional education or major courses under the BSED major in Mathematics curriculum.					
GENERAL EDUCATION ELECTIVES					
ES036B	Environmental Science	3	0	3	
SSP033	Gender and Society	3	0	3	
LIT031	Sosyedad at Literatura/Panitikang Panlipunan (SOSLIT)	3	0	3	