



University of Southeastern Philippines
College of Arts and Sciences

BACHELOR OF SCIENCE IN MATHEMATICS

CMO No. 48, series of 2017

Approved per BOR Resolution No. 58, series of 2018

Approved per BOR Referendum No. 10, S. 2020, confirmed per BOR Resolution No. 63, s.2020

Effective S.Y. 2018-2019

FIRST YEAR					
1st Semester			2nd Semester		
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
GE 113	Understanding the Self	3	0	3	None
GE 114	Ethics	3	0	3	None
Math 111	Pre-calculus	6	0	6	None
Stat 111	Descriptive Statistics	3	0	3	None
Nat Sci 1	General Biology	2	1	3	None
PE 111	Movement Enhancement	2	0	2	None
NSTP 111	National Service Training Program 1	3	0	3	None
Total				23	

GE 111	Purposive Communication	3	0	3	None
GE 112	Mathematics in the Modern World	3	0	3	None
Math 121	Fundamental Concepts of Mathematics	3	0	3	Math 111
Math 122	Calculus 1	5	0	5	Math 111
Stat 121	Statistical Methods	3	0	3	Stat 111
PE 122	Fitness Exercise	2	0	2	PE 111
NSTP 122	National Service Training Program 2	3	0	3	NSTP 111
Total				22	

SECOND YEAR					
1st Semester			2nd Semester		
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
GE 215	Life and Works of Rizal	3	0	3	None
GE 216	Readings in Philippine History	3	0	3	None
Math 211	Calculus 2	5	0	5	Math 122
Math 212	Set Theory	3	0	3	Math 121
Nat Sci 2	General Chemistry	2	1	3	None
Elective 1	Intro to Info Tech	2	1	3	None
PE 213	Physical Activities Towards Health & Fitness I	2	0	2	PE 122
Total				22	

GE 217	Science, Technology and Society	3	0	3	None
GE 218	Art Appreciation	3	0	3	None
Math 221	Calculus 3	5	0	5	Math 211
Math 222	Linear Algebra	3	0	3	Math 121
Phy Sci 1	General Physics	3	1	4	Math 111
CS 2	Fundamental of Computing 1	2	1	3	Math 111
PE 224	Physical Activities Towards Health & Fitness II	2	0	2	PE 213
Total				23	

THIRD YEAR					
1st Semester			2nd Semester		
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
EGE 311	General Education Elective 1	3	0	3	None
GE 319	Contemporary World	3	0	3	None
Math 311	Operations Research 1	2	1	3	Math 222
Math 312	Abstract Algebra 1	3	0	3	Math 121
Math 313	Probability	3	0	3	Math 221
Math 314	Graph Theory and Applications	3	0	3	Math 121
Math 315	Differential Equations 1	3	0	3	Math 221
Math 316	Combinatorics	3	0	3	Math 212
Total				24	

EGE 312	General Education Elective 2	3	0	3	None
EGE 313	General Education Elective 3	3	0	3	None
Math 321	Statistical Theory	3	0	3	Math 121 & Math 221
Math 322	Abstract Algebra 2	3	0	3	Math 312
Math 323	Advanced Calculus 1	3	0	3	Math 221
Math 324	Mathematical Modeling	3	0	3	Math 315, CS 2, & Math 222
Math 325	Mathematical Research Methods	3	0	3	Math 311, Math 314, Math 316
Elective 2	Math/Stat/Computing Elective 2	3	0	3	None**
Total				24	

FOURTH YEAR					
1st Semester			2nd Semester		
Course No.	Course Title	Credit			Pre/Co-Requisite
		Lec	Lab	Total Units Credit	
Math 411	Modern Geometry	3	0	3	Math 222 & Math 312
Math 412	Elementary Number Theory	3	0	3	Math 121
Math Res 400	Thesis*	0	3	3	Math 325
Math 414	Practicum	0	3	3	Math 321, Math 322, Math 323, Math 324 & Math 325
Elective 3	Math/Stat/Computing Elective 3	3	0	3	None**
Total				15	

Math 421	Real Analysis	3	0	3	Math 323
Math 422	Complex Analysis	3	0	3	Math 323
Math 423	Topology	3	0	3	Math 323
Math Res 400	Thesis	0	3	3	Math 325 & Math 414
Elective 4	Math/Stat/Computing Elective 4	3	0	3	None**
Total				15	

Note: Thesis*- A subject to be enrolled continuously until the last prescribed semester where student's grade will appear
None** - May vary depending on the pre-requisite subject/s.

Electives:
Any three allied courses

EGE Electives:

1. People and the Earth's Ecosystem
2. Environmental Science
3. Gender and Society

4. Philippine Indigenous Communities
5. Reading Visual Arts
6. Foreign Language

7. Living in the IT Era

Summary	
General Education	36 units
Core Courses	66 units
Non-Math Foundational Courses	10 units
Qualified Electives/Cognates (Descriptive Statistics, Statistical Methods, Combinatorics)	9 units
Math Electives (Set Theory, Real Analysis, Graph Theory and Applications, Operations Research 1)	12 units
Free Electives (Elective 1-4)	12 units
Thesis	6 units
Practicum	3 units
PE	8 units
NSTP	6 units
Total number of units	168 units

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