

**Bachelor of Science in Mathematics**  
(Revised per CMO No. 19 s. 2007)

Subject	Description	Units	Pre-Requisite
<b>First Year, 1<sup>st</sup> Semester</b>			
* English Plus	Critical Grammatical Structure	-	
English 1	Study and Thinking Skills in English	3	None
Filipino 1	Komunikasyon sa Akademikong Filipino	3	None
Pre Calculus Math 1	College Algebra	3	None
Pre Calculus Math 2	Plane Trigonometry	3	None
Natural Science 1A	Environmental Science	3	None
Physical Education 1	Physical Fitness Testing	2	None
NSTP 1	CWTS/LTS/ROTC		None
<i>* To be taken by those who did not pass the English Placement Test</i>			
<b>First Year, 2<sup>nd</sup> Semester</b>		(3)	
* English 1	Study and Thinking Skills in English	3	
English 2	Writing in the Discipline	3	English 1
Filipino 2	Pagbasa at Pagsulat Tungo sa Pananaliksik		Filipino 1
Math 7	Fundamental Concepts in Math	5	Pre Calculus Math 1 & 2
Math 8	Plane and Solid Geometry	3	Pre Calculus Math 2
Natural Science 2	Physical Science	3	None
Physical Education 2	Rhythmic Activities	2	Physical Education 1
NSTP 2	CWTS/LTS/ROTC	3	NSTP 1
<b>Second Year, 1<sup>st</sup> Semester</b>			
Math 9	Calculus 1	5	Pre Calculus Math 1 & 2
Math 10	Statistics	3	Pre Calculus Math 1
Literature 1	Philippine Literature	3	English 2
Social Science 1	Philippine Government and Constitution	3	None
Physics 1	General Physics Lecture	3	Pre Calculus Math 1 & 2
Physics 1L	General Physics Laboratory	2	Pre Calculus Math 1 & 2
Information Technology 1	Fundamentals of Computer Software Application with e-Commerce	3	None
Physical Education 3	Individual/Dual Team Sports and Games	2	Physical Education 2
<b>Second Year, 2<sup>nd</sup> Semester</b>			

Math 11	Calculus II	5	Math 9
Math 12	Probability	3	Math 9
Math 13	Fundamentals of Computing 1	3	None
Elective 1		3	
Philosophy 1	Logic	3	None
Literature 2	World Literature	3	Literature 1
Physical Education 4	Team Sports and Recreational Activities	2	Physical Education 3
<b>Third Year, 1<sup>st</sup> Semester</b>			
Math 14	Calculus III	3	Math 11
Math 15	Abstract Algebra	3	Math 7
Math 16	Linear Algebra	3	Math 7
Elective 2		3	
Social Science 2	General Psychology	3	None
Humanities 1	Art Appreciation	3	None
<b>Third Year, 2<sup>nd</sup> Semester</b>			
Math 17	Modern Geometry	3	Math 15 & 16
Math 18	Differential Equations I	3	Math 14
Elective 3		3	
Elective 4		3	
Natural Science 3	Biological Science	3	None
<b>Fourth Year, 1<sup>st</sup> Semester</b>			
History 1	Philippine History	3	None
Math 19	Advanced Calculus I	3	Math 14
Elective 5		3	
Free Elective 1		3	
Thesis	Undergraduate Thesis/Special Problem	3	Math 7 to 18
<b>Fourth Year, 2<sup>nd</sup> Semester</b>			
Math 20	Complex Analysis	3	Math 19
Math 21	Advanced Calculus II	3	Math 19
Free Elective 2		3	
Economics 1	Economics with Land Reform and Taxation	3	None
Rizal Course	Life and Works of Rizal	3	None

Elective Courses:

Abstract Algebra2  
Actuarial Mathematics 1  
Actuarial Mathematics 2  
Graph Theory & Applications  
Differential Equations 2

Discrete Mathematics  
Fundamentals of Computing 2  
Mathematical Modeling

Numerical Analysis

Suggested Free-Electives:

Linear Models  
Time Series Analysis  
Data Structure & Algorithms  
Risk Theory

Pre-Requisite

Abstract Algebra 1  
Probability & Theory of Interest  
Actuarial Mathematics 1  
Discrete Mathematics  
Differential Equations 1 and  
Advanced Calculus

Plane Trigonometry  
Fundamentals of Computing 1  
Differential Equations 1,  
Statistics and Linear Algebra

Differential Equations 1 and  
Linear Algebra

Pre-Requisite

Probability, Statistics and Statistical Theory  
Probability, Statistics and Statistical Theory  
Fundamental of Computing  
Probability

Elective Subjects

Operations Research 1  
Operations Research 2  
Number Theory  
Real Analysis  
Set Theory  
Topology

Statistical Theory  
Theory of Interest