

**Bachelor of Science in Applied Mathematics
UP Tacloban College**

**STUDY PLAN
(141 units)**

FIRST YEAR

First Semester				Second Semester			
Course	Title	Units	Pre-requisite	Course	Title	Units	Pre-requisite
GE Core 1		3		GE Core 3		3	
GE Core 2		3		Math 53	Calculus I	4	Math 18
Econ 11	Introductory Economics	3		Math 107	Logic and Set Theory	3	Math 18
Math 18	Precalculus Mathematics	5		Math 154	Computer Programming II	3	Math 153
Math 153	Computer Programming I	3		Physics 71	Elementary Physics I	4	Math 18 Coreq: Math 53
PE 1	Foundations of Physical Fitness	(2)		Physics 71.1	Elementary Physics Laboratory I	1	Coreq: Physics 71
NSTP		(3)		PE 2		(2)	
				NSTP		(3)	
Subtotal		17		Subtotal		18	

SECOND YEAR

First Semester				Second Semester			
Course	Title	Units	Pre-requisite	Course	Title	Units	Pre-requisite
GE Core 4		3		GE Core 5		3	
Math 54	Calculus II	4	Math 53	GE Elective 1		3	
Math 110	Abstract Algebra	3	Math 107	Math 55	Calculus III	4	Math 54

Math 114	Linear Algebra	3	Math 107	Math 121	Elementary Differential Equations	3	Coreq: Math 55
Math 135	Combinatorial Mathematics	3	Math 107	Math 162	Theory of Interest	3	Math 54
PE 2		(2)		Math 173	Numerical Methods I	3	Math 54, Math 114, Math 154
				PE 2		(2)	
Subtotal		16		Subtotal		19	
THIRD YEAR							
First Semester				Second Semester			
Course	Title	Units	Pre-requisite	Course	Title	Units	Pre-requisite
GE Core 6		3		GE Core 7		3	
GE Elective 2		3		Comm 12	Technical Communication	3	Comm 10
Math 174	Numerical Methods II	3	Math 121, Math 173	Math 175	Mathematical Modeling	3	Math 174
Math 183	Linear and Integer Programming	3	Math 114	Stat 111	Statistical Methods and Inference	4	Stat 110
Stat 110	Non-Bayesian	4	Math 54 or equiv.	Math Elective 2		3	
Math Elective 1		3					
Subtotal		19		Subtotal		16	
Midyear							
Course	Title	Units	Pre-requisite				
Math 195	Practicum (Math Elective)	3	Must have taken at least 30 units of upper division courses				

Subtotal		3					
FOURTH YEAR							
First Semester				Second Semester			
Course	Title	Units	Pre-requisite	Course	Title	Units	Pre-requisite
GE Elective 3		3		GE Elective 5		3	
GE Elective 4		3		PI 100		3	
Math 123	Advanced Calculus I	3	Math 55 or equiv.	Math 128	Math 55 or equiv.	3	
Math 198.1	Special Problem I	1	Math 175, Math 183, Comm 12	Math 198.2	Math 198.1	2	
Qualified Elective 1		3		Qualified Elective 2		3	
Elective 1		3		Elective 2		3	
Subtotal		16		Subtotal		17	