



## BACHELOR OF SCIENCE IN APPLIED MATHEMATICS

EFFECTIVE S.Y. 2018-2019

FIRST YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	111	Calculus I	4	0	4	4	None	None
Math	112	Fundamentals of Computing I	3	1	4	4	None	None
Eng	101	Purposive Communication	3	0	3	3	None	None
SS	104	Ethics	3	0	3	3	None	None
Math	101	Mathematics in the Modern World	3	0	3	3	None	None
PE	101	Movement Enhancement	0	2	2	2	None	None
NSTP	101	ROTC / CWTS / LTS 1	0	3	3	3	None	None
			Total		22	22		

FIRST YEAR								
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	121	Calculus II	4	0	4	4	Math111	None
Math	112	Fundamentals of Computing II	3	1	4	4	Math112	None
Math	102	Mathematics of Measurement	3	0	3	3	None	None
Eng	102	Art Appreciation	3	0	3	3	None	None
SS	101	Understanding the Self	3	0	3	3	None	None
PE	102	Fitness Exercise and Activities	0	2	2	2	PE101	None
NSTP	201	ROTC / CWTS / LTS 2	0	3	3	3	NSTP101	None
			Total		22	22		

**SECOND YEAR****First Semester**

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites	
			LEC	LAB	Total				
Math	211	Calculus III	4	0	4	4	Math121	None	
Math	212	Fundamental Concepts of Mathematics	3	0	3	3	Pre-Calculus	None	
Phys	111	General Physics I	3	1	4	4	None	None	
Fil	101	Wika, Kultura at Lipunan	3	0	3	3	None	None	
Acctg	211	Accounting	3	0	3	3	None	None	
SS	103	The Contemporary World	3	0	3	3	None	None	
PE	103	Physical Activity Towards Health and Fitness (PATH Fit) 1	0	2	2	2	None	None	
			Total			22	22		

**SECOND YEAR****Second Semester**

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites	
			LEC	LAB	Total				
Math	221	Differential Equations	3	0	3	3	Math211	None	
Math	222	Linear Algebra	3	0	3	3	Math212	None	
Math	223	Statistical Theory	3	0	3	3	Math101	None	
Bio	400	Fundamentals of Biology	3	0	3	3	None	None	
Fil	102	Panitikan	3	0	3	3	None	None	
SS	105	Life and Works of Rizal	3	0	3	3	None	None	
PE	104	Physical Activity Towards Health and Fitness (PATH Fit) 2	0	2	2	2	None	None	
			Total			20	20		

**THIRD YEAR**

***First Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	311	Discrete Mathematics	3	0	3	3	Math101, Math212	None
Math	312	Advanced Calculus	3	0	3	3	Math211	None
AM	311	Simulation	3	1	4	4	Math112, Math223	None
Math	313	Probability	3	0	3	3	Math121, Math223	None
SS	102	Readings in Philippine History	3	0	3	3	None	None
Math	314	Operations Research I	3	1	4	4	Math121, Math222	None
			Total		<b>20</b>	<b>20</b>		

**THIRD YEAR**

***Second Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
Math	321	Numerical Analysis	3	0	3	3	Math221, Math222	None
Math	322	Theory of Interest	3	0	3	3	None	None
AM	321	Operations Research II	3	0	3	3	Math314	None
Math	103	Modeling the Business World	3	0	3	3	None	None
AM	322	Directed Research	4	0	4	4	None	None
Math	323	Mathematical Modeling	3	0	3	3	Math112, Math221, Math222	None
			Total		<b>19</b>	<b>19</b>		

**THIRD YEAR**

***Summer***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AM	331	On-the-Job Training* *240 hours		4	4	4	None	None
			Total		<b>19</b>	<b>19</b>		

**FOURTH YEAR*****First Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AM	411	Time Series Analysis	3	0	3	<b>3</b>	Math313	None
AM	412	Applied Multivariate Analysis	3	0	3	<b>3</b>	Math313	None
		Free Elective I	3	0	3	<b>3</b>	None	None
ES	101	Science, Technology and Society	3	0	3	<b>3</b>	None	None
AM	413	Thesis I	3	0	3	<b>3</b>	None	None
			Total		<b>15</b>	<b>15</b>		

**FOURTH YEAR*****Second Semester***

Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			LEC	LAB	Total			
AM	421	Nonlinear Programming	3	0	3	<b>3</b>	Math314, AM321	None
		Free Elective 2	3	0	3	<b>3</b>	None	None
JEEP	101	Job Enabling English Proficiency	3	0	3	<b>3</b>	None	None
AM	422	Thesis II	3	0	3	<b>3</b>	Thesis I	None
			Total		<b>12</b>	<b>12</b>		