



University of Science and Technology of Southern Philippines
College of Science and Mathematics

**BACHELOR OF SCIENCE IN
 APPLIED MATHEMATICS**

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	3	0	3	3	NONE	NONE
PE	101	Physical Education 1	0	2	2	2	NONE	NONE
NSTP	101	ROTC/CWTS/LTS	0	3	3	3		
				Total	22	22		

<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
Math	121	Calculus II	4		4	4	Calculus I	NONE
Math	112	Fundamentals of Computing II	3	1	4	4	Fundamentals of Computing I	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	Physical Education II	0	2	2	2	NONE	NONE
NSTP	201	ROTC/CWTS/LTS	0	3	3	3		
				Total	22	22		



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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	Calculus II	NONE
Math	212	Fundamentals of Concepts of	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 Education III	0	2	2	2	NONE	NONE
				Total	22	22	NONE	NONE
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
Math	221	Differential Equations	3	0	3	3	Calculus III	NONE
Math	222	Linear Algebra	3	0	3	3	Fundamentals of Mathematics in the Modern	NONE
Math	223	Statistical Theory	3	0	3	3		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 Education IV	0	2	2	2	NONE	NONE
				Total	20	20		



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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	MMW, Fundamental Concepts of Math	NONE
Math	312	Advanced Calculus	3	0	3	3	Calculus III	NONE
AM	311	Simulation	3	1	4	4	Fundamentals of Computing II, Statistical Theory	NONE
Math	313	Probability	3	0	3	3	Calculus II, Statistical Theory	NONE
SS	102	Readings in Philippine History	3	0	3	3	NONE	NONE
Math	314	Operations Research I	3	1	4	4	Calculus II, Linear Algebra	NONE
				Total	20	20		
Second Semester								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
Math	321	Numerical Analysis	3	0	3	3	DE, Linear Algebra	NONE
Math	322	Theory of Interest	3	0	3	3	NONE	NONE
AM	321	Operations Research II	3	0	3	3	Operations	NONE
Math	103	Modeling the Business	3	0	3	3	NONE	NONE
AM	322	Directed Research	4	0	4	4	NONE	NONE
Math	323	Mathematical Modeling	3	0	3	3	Fundamentals	NONE
				Total	19	19		



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THIRD YEAR								
<i>First Semester</i>								
Course Code		Description	<i>No. of Hours</i>			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
AM	331	On-the-Job Training* *240 hours	0	4	4	4	NONE	NONE
				Total	4	4		



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FOURTH YEAR								
<i>First Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
AM	411	Time Series Analysis	3	0	3	3	Probability	NONE
AM	412	Applied Multivariate Analysis	3	0	3	3	Probability	NONE
		Free Elective I	3	0	3	3	NONE	NONE
ES	101	Science, Technology and Society	3	0	3	3	NONE	NONE
AM	413	Thesis I	3	0	3	3	NONE	NONE
				Total	15	15	NONE	NONE
<i>Second Semester</i>								
Course Code		Description	No. of Hours			Units	Pre-requisites	Co-requisites
			Lec	Lab	Total			
AM	421	Nonlinear Programming	3	0	3	3	Operations Research I,	NONE
		Free Elective 2	3	0	3	3	NONE	NONE
JEEP	101	Job Enabling English Proficiency	3	0	3	3	NONE	NONE
AM	422	Thesis II	3	0	3	3	Thesis I	NONE
				Total	12	12		