Mathematics AS Curriculum Map											General Education Essential Skills				
This curriculum map is designed to show how program learning outcomes are introduced, developed, and mastered across courses in the program. Use the following guidance when completing or reviewing the map:															
roduced: Indicates the course provides students with the	neir first exposure to a c	concept or skill. At this sta	ge, students are expected	d to demonstrate only a b	asic understanding.										
Developed: Indicates that students gain more in-depth knowledge, practice, and reinforcement of the concept or skill. Students are expected to begin applying what they have learned with increasing independence.											Each degree program at Luna contains an integrated core of general education requirements. This core ensures that Lu graduates possess the expected literacy and general knowledge to function well in the workforce, to pursue further educa and to participate in the cultural and political life of the local community and the larger society.				
Mastered: Indicates that students can independently and skillfully apply the outcome, demonstrating a high level of understanding and competence appropriate for graduation and entry into the workforce or a 4-year institution.											and to participate in the cultural and political life of the local community and the larger society.				
													1		1
								Mathematical							
				Graduates will effectively		Graduates will effectively use mathematical	Graduates will	Applications: Graduates will apply mathematical	Collaborative and Cooperative Learning: Graduates will	Graduates will engage in lifelong learning in					
	Graduates will possess a comprehensive	Graduates will develop strong problem-solving and critical-thinking	Graduates will be able to use mathematical	communicate mathematical ideas,	Graduates will possess the ability to reason and	software and technology, such as graphing calculators,	Graduates will understand the concepts of mathematical proof	concepts and techniques to solve real world problems in diverse areas, such as science,	collaborate effectively	the dynamic nature of the					
Courses are listed in rows and PLOs are in	understanding of fundamental	skills, applying mathematical	use mathematical models to represent and solve practical problems	concepts, and solutions through written, verbal, and visual	the ability to reason and make informed decisions based on numerical and	mathematical modeling	and	problems in diverse areas, such as science,	with peers, engaging in cooperative learning	need to continually update			Information and Digitial		Personal and Sc
columns	mathematical concepts, including algebra, calculus, geometry, statistics, and discrete	reasoning and analytical abilities to solve complex mathematical problems and real-world	in various fields, applying mathematical techniques and tools to analyze and interpret data.	representations, demonstrating clarity, coherence, and precision in their mathematical	quantitative information, evaluating data, identifying patterns, and drawing meaningful	software, spreadsheets, and statistical software, to enhance problem solving, data analysis, and	evaluate mathematical arguments, demonstrating logical reasoning and a solid foundation in	finance, and social sciences,	cooperative learning activities, group projects, and mathematical discussions, demonstrating the ability	Graduates will engage in lifelong learning in mathematics, recognizing the dynamic nature of the discipline and the need to continually update their knowledge and skills, pursuing further education, professional development, and staying current with	Communication	Critical Thinking	racy	Quantitative Reasoning	Personal and Social Responsibility
						visualization.		contexts.	problems.	applications.					
ATH1350 Introduction to Statistics	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
ATH1230 Trigonometry	Mastered	Mastered	Mastered	Mastered	Mastered	Developed	Mastered	Mastered	Developed	Developed					
ATH1511 Calculus I	Mastered	Mastered	Mastered	Mastered	Mastered	Developed	Mastered	Mastered	Developed	Developed					
ATH1520 Calculus II	Mastered	Mastered	Mastered	Mastered	Mastered	Developed	Mastered	Mastered	Developed	Developed					
ATH213 Calculus III	Mastered	Mastered	Mastered	Mastered	Mastered	Developed	Mastered	Mastered	Developed	Developed	-				
CIS1110 Introduction to Information Systems TEM250 STEM Capstone	Introduced Mastered	Introduced Mastered	Introduced Mastered	Not Addressed Mastered	Not Addressed Mastered	Developed Mastered	Not Addressed Mastered	Developed Mastered	Not Addressed Mastered	Developed Mastered	-				
ATH1215 Intermediate Algebra	Not Addressed	Introduced	Developed	Not Addressed	Not Addressed	Not Addressed	Not Addressed	Not Addressed	Introduced	Not Addressed	+				
ATH215 Linear Algebra	Mastered	Mastered	Developed	Mastered	Mastered	Introduced	Mastered	Mastered	Mastered	Mastered	-				
ATH220 Differential Equations	Mastered	Mastered	Mastered	Mastered	Mastered	Developed	Mastered	Mastered	Mastered	Mastered	-				
ATTIZZO DINOTORIAL EQUATIONS	Musicica	Mastered	Madicica	Wastered	Madicica	Бечеюреа	Madicica	Musicica	Mastered	Madicica					
en Ed Courses											Five essential sk	ills are associated v	vith each of six conte	ent areas, as shown	in the table bel
ea I - Communication: ENGL 1110 Composition I; ENGL 20 Composition II; COMM 1130 Public Speaking; COMM											х	х	х		
20 Interpersonal Communication ea II – Mathematics: MATH 1350 Statistics; MATH 1220															
llege Algebra											Х	Х		Х	
ea III – Laboratory Science: BIOL 1110 General Biology; DL 1140 Biology for Health Sciences; BIOL 2110 Principles															
Biology: Cell & Molecular Biology; BIOL 2310 Microbiology; DL 2210 Human Anatomy & Physiology I; BIOL 2225															
man Anatomy & Physiology II; CHEM 1120 Introduction to emistry; CHEM 1215 General Chemistry I; CHEM 1226												x		x	х
neral Chemistry II; ENVS 1110 Environmental Science; EOL 1110 Physical Geology; GEOL 2110 Historical sology; PHYS 1115 Survey of Physics; PHYS 1230 Algebra-															
ology; PHYS 1115 Survey of Physics; PHYS 1230 Algebra- sed Physics I; PHYS 1240 Algebra-based Physics II; PHYS 10 Calculus-based Physics I; PHYS 1320 Calculus-based															
ysics II															
ea IV – Social and Behavioral Sciences: ANTH 1115 roduction to Anthropology; ANTH 1141 Cultures of the															
orld; ECON 2110 Macroeconomics Principles; ECON 2120 croeconomics Principles; POLS 1120 American National											х	x			х
vernment; POLS 2160 State and Local Government; PSYC 10 Introduction to Psychology; PSYC 2120 Developmental															
ychology; SOCI 1110 Introduction to Sociology															
nerican Literature I; ENGL 2310 Introduction to Creative															
nerican Literature II; HIST 1150 Western Civilization I; HIST 30 Western Civilization II: HIST 1110 United States History												v	v		v
HIST 1120 United States History II; HIST 2110 Survey of story of New Mexico: PHIL 1110 Introduction to Philosophy:												X	X		Х
LG 2115 World Religions; SPAN 1110 Spanish I; BCIS 10 Introduction to Information Systems; MATH 1215															
ermediate Algebra															
ea VI - Creative and Fine Arts: ARTS 1610 Drawing I; ITH 1120 Introduction to Art; ARTH 2110 History of Art I; JSC 1130 Music Appreciation: Western Music; THEA 1220											х	x			х
ginning Acting															