

Fire Science AAS 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: Introduced: Indicates the course provides students with their first exposure to a concept or skill. At this stage, students are expected to demonstrate only a basic 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. 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.							Each degree program at Luna contains an integrated core of general education requirements. This core ensures that Luna graduates possess the expected literacy and general knowledge to function well in the workforce, to pursue further education and to participate in the cultural and political life of the local community and the larger society.				
Courses are listed in rows and PLOs are in columns	Illustrate the history of the fire service; describe the components and development of the fire and emergency services; recognize careers in fire and emergency services.	Identify various classifications of building construction; understand theoretical concepts of how fire impacts major types of building construction.	Identify laws, codes, ordinances, and regulations as they relate to fire prevention; understand code enforcement as it impacts life and property loss.	Identify the fundamental theories of fire behavior and combustion; differentiate the various types of extinguishment agents.	Identify and describe various types and uses of fire protection systems; describe the basic elements of a public water supply system as it relates to fire protection.	Identify and explain the 16 life safety initiatives; understand the concepts of risk management and mitigation as it pertains to emergency services.	Communication	Critical Thinking	Information and Digital	Quantitative Reasoning	Personal and Social Responsibility
FS118 Principles of Emergency Services	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
FS133 Building Construction for Fire Protection	Developed	Introduced	Introduced	Introduced	Introduced	Introduced					
FS165 Fire Prevention	Developed	Developed	Developed	Developed	Developed	Developed					
FS170 Fire Behavior and Combustion	Developed	Introduced	Developed	Developed	Developed	Developed					
FS214 Fire Protection Services	Developed	Developed	Developed	Developed	Developed	Developed					
FS232 Firefighter Safety and Survival	Developed	Developed	Developed	Developed	Developed	Developed					
FS250 Research Methods in Fire Science	Developed	Developed	Developed	Developed	Developed	Developed					
STEM250 STEM Capstone	Developed	Developed	Developed	Developed	Developed	Developed					
FS110 Hazardous Materials Responder	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
FS115 Introduction to Firefighting	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
FS125 Firefighter I	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
FS130 Fire and Life Safety Education	Introduced	Introduced	Developed	Developed	Developed	Developed					
FS160 Fire Investigation I	Introduced	Introduced	Developed	Developed	Developed	Developed					
FS205 Firefighting Strategy and Tactics	Introduced	Developed	Developed	Developed	Developed	Developed					
FS210 Firefighter Leadership	Introduced	Developed	Mastered	Mastered	Mastered	Mastered					
FS220 Fire Service Instructor I	Introduced	Developed	Mastered	Mastered	Mastered	Mastered					
FS224 Principles of Code Enforcement	Introduced	Mastered	Mastered	Mastered	Mastered	Mastered					
FS230 Fire and Emergency Services Administration	Introduced	Mastered	Mastered	Mastered	Mastered	Mastered					
FS281 Firefighter Internship	Mastered	Mastered	Mastered	Mastered	Mastered	Mastered					
Gen Ed Courses							Five essential skills are associated with each of six content areas, as shown in the table below				
Area I – Communication: ENGL 1110 Composition I; ENGL 1120 Composition II; COMM 1130 Public Speaking; COMM 2120 Interpersonal Communication							X	X	X		
Area II – Mathematics: MATH 1350 Statistics; MATH 1220 College Algebra							X	X		X	
Area III – Laboratory Science: BIOL 1110 General Biology; BIOL 1140 Biology for Health Sciences; BIOL 2110 Principles of Biology; Cell & Molecular Biology; BIOL 2310 Microbiology; BIOL 2210 Human Anatomy & Physiology I; BIOL 2225 Human Anatomy & Physiology II; CHEM 1120 Introduction to Chemistry; CHEM 1215 General Chemistry I; CHEM 1226 General Chemistry II; ENVS 1110 Environmental Science; GEOL 1110 Physical Geology; GEOL 2110 Historical Geology; PHYS 1115 Survey of Physics; PHYS 1230 Algebra-based Physics I; PHYS 1240 Algebra-based Physics II; PHYS 1310 Calculus-based Physics I; PHYS 1320 Calculus-based Physics II								X		X	X
Area IV – Social and Behavioral Sciences: ANTH 1115 Introduction to Anthropology; ANTH 1141 Cultures of the World; ECON 2110 Macroeconomics Principles; ECON 2120 Microeconomics Principles; POLS 1120 American National Government; POLS 2160 State and Local Government; PSYC 1110 Introduction to Psychology; PSYC 2120 Developmental Psychology; SOCI 1110 Introduction to Sociology							X	X			X
Area V – Humanities (AA & AS) / Flex (AAS): ENGL 2610 American Literature I; ENGL 2310 Introduction to Creative Writing; ENGL 2380 Introduction to Short Fiction; ENGL 2620 American Literature II; HIST 1150 Western Civilization I; HIST 1160 Western Civilization II; HIST 1110 United States History I; HIST 1120 United States History II; HIST 2110 Survey of History of New Mexico; PHIL 1110 Introduction to Philosophy; RELG 2115 World Religions; SPAN 1110 Spanish I; BGIS 1110 Introduction to Information Systems; MATH 1215 Intermediate Algebra								X	X		X
Area VI – Creative and Fine Arts: ARTS 1610 Drawing I; ARTH 1120 Introduction to Art; ARTH 2110 History of Art I; MUSC 1130 Music Appreciation: Western Music; THEA 1220 Beginning Acting							X	X			X