

Computer 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	Summarize and interpret the history and evolution of computer systems and social issues involving computers.	Analyze and interpret data when developing programs using C++ and Java	Maintain and differentiate between different operating systems	Communicate effectively, engage in lifelong learning, and function on teams	Distinguish between the hardware and software of a computer system	Identify various applications as well as their functions	Maintain and implement small home and office networks	Use the techniques and skills for professional practice	Understanding of professional and ethical responsibility	Knowledge of contemporary issues	Communication	Critical Thinking	Information and Digital	Quantitative Reasoning	Personal and Social Responsibility
CS105 Introduction to Computer Science	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced	Introduced					
CS112 Introduction to Operating Systems	Introduced	Not Addressed	Mastered	Developed	Developed	Developed	Introduced	Developed	Developed	Developed					
CS121 Introduction to Programming	Introduced	Introduced	Not Addressed	Developed	Introduced	Introduced	Not Addressed	Introduced	Introduced	Developed					
CS130 Introduction to Networking	Introduced	Not Addressed	Developed	Developed	Developed	Developed	Mastered	Developed	Developed	Developed					
CS140 Computer Science I	Introduced	Mastered	Not Addressed	Developed	Not Addressed	Not Addressed	Not Addressed	Developed	Developed	Developed					
CS220 A+ Essential with Practical Applications	Introduced	Developed	Developed	Developed	Mastered	Developed	Developed	Developed	Developed	Developed					
CS245 Security+	Introduced	Not Addressed	Introduced	Developed	Developed	Developed	Mastered	Mastered	Developed	Developed					
CS215 Java Programming.	Introduced	Mastered	Introduced	Developed	Introduced	Developed	Not Addressed	Mastered	Mastered	Introduced					
CS248 Web Design and Programming	Introduced	Not Addressed	Mastered	Developed	Introduced	Mastered	Not Addressed	Mastered	Mastered	Developed					
CS261 Network Concepts I	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Developed	Mastered	Developed					
CS267 Network Concepts II	Mastered	Not Addressed	Developed	Mastered	Developed	Introduced	Mastered	Mastered	Mastered	Mastered					
CS216 Windows Server I	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Developed	Mastered	Developed					
CS217 Windows Server II	Developed	Not Addressed	Introduced	Developed	Developed	Introduced	Mastered	Mastered	Mastered	Developed					
CS219 Ethical Hacking	Developed	Not Addressed	Developed	Developed	Mastered	Developed	Mastered	Mastered	Mastered	Developed					
CS231 Linux+	Developed	Not Addressed	Developed	Developed	Developed	Introduced	Introduced	Mastered	Mastered	Developed					
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; BCIS 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