

COMPUTER SCIENCE PATHWAY, A.S.

School of Science, Technology, Engineering & Mathematics

The Associate of Science degree in Computer Science introduces students to fundamental principles underlying the field of computer science. Students will gain foundational knowledge in computing, programming, problem-solving, and algorithm development, which will provide the groundwork for future studies and/or careers in computer science, software development, cybersecurity, information technology, and networking.

To qualify for graduation, students must meet all graduation requirements (<http://catalog.highlands.edu/academic-information/#graduationrequirements>).

Code	Title	Hours	Completed
A. Essential Skills			
ENGL 1101	English Composition I	3	_____
ENGL 1102	English Composition II	3	_____
Select one of the following or a mathematics course for which one of the following is a prerequisite:		3	_____
MATH 1113	Precalculus		_____
B. Institutional Options			
COMM 1100	Human Communication	2-3	_____
or COMM 1110 Public Speaking			_____
Select one of the following:		2	_____
GHHU 2901	Special Topics: Humanities		_____
GHMA 2901	Special Topics: Mathematics		_____
GHSC 2901	Special Topics: Science		_____
GHSS 2901	Special Topics: Social Science		_____
C. Humanities/Fine Arts			
Select one of the following:		3	_____
ENGL 2111	World Literature I		_____
ENGL 2112	World Literature II		_____
ENGL 2121	British Literature I		_____
ENGL 2122	British Literature II		_____
ENGL 2131	American Literature I		_____
ENGL 2132	American Literature II		_____
ENGL 2135	Latino Literature		_____
ENGL 2140	African-American Literature		_____
Select one of the following:		3	_____

ARTS 1100	Art Appreciation	_____
ARTS 1111	Art History to Renaissance	_____
ARTS 1112	Art History Renaissance to Pre	_____
ENGL 2010	Humanities in Drama	_____
ENGL 2111	World Literature I	_____
ENGL 2112	World Literature II	_____
ENGL 2121	British Literature I	_____
ENGL 2122	British Literature II	_____
ENGL 2131	American Literature I	_____
ENGL 2132	American Literature II	_____
ENGL 2135	Latino Literature	_____
ENGL 2140	African-American Literature	_____
FILM 1100	Film Appreciation	_____
FILM 2700	History of Motion Pictures	_____
HUMS 2011	Studies In Humanities	_____
MUSC 1100	Music Appreciation	_____
PHIL 2010	Introduction to Philosophy	_____
RELI 1116	Intro to Religion	_____
SPAN 1001	Elementary Spanish I	_____
SPAN 1002	Elementary Spanish II	_____
SPAN 2001	Intermediate Spanish I	_____
SPAN 2002	Intermediate Spanish II	_____
THEA 1100	Theater Appreciation	_____
D. Science, Mathematics, and Technology		
Select a two-course science sequence of the following:		8
BIOL 1107K & BIOL 1108K	Principles of Biology I and Principles of Biology II	_____
CHEM 1211 & 1211L & CHEM 1212 & CHEM 1212L	Principles of Chemistry I and Principles of Chemistry I Lab and Principles of Chemistry II and Principles of Chemistry II Lab	_____

PHYS 1111K & PHYS 1112K	Introductory Physics I and Introductory Physics II			CSCI 1302	Computer Science II	4	
PHYS 2211K & PHYS 2212K	Principles of Physics I and Principles of Physics II			Area D excess		2	
MATH 2261	Calculus I	4		Select eight hours from the following:		7-8	
E. Social Sciences				CSCI 2153	Intro to Database Systems		
POLS 1101	American Government	3		CSCI 2323	Introduction to Networking		
HIST 2111	American History I	3		MATH 2262	Calculus II		
or HIST 2112	American History II			MATH 2263	Calculus III		
Select one of the following:		3		MATH 2280	Discrete Mathematics		
HIST 1111	World Civilization to 1500			MATH 2285	Linear Algebra		
HIST 1112	World Civ Since 1500			STAT 1401	Elementary Statistics		
HIST 1121	Western Civilization I			Institutional Requirements Outside the Core			
HIST 1122	Western Civilization II			PHED 1010	Concepts of Fitness/Health	2	
Select one of the following:		3		Additional two credit hours of physical education		2	
ECON 2105	Principles of Macroeconomics			Total Hours		64	
HIST 1111	World Civilization to 1500						
HIST 1112	World Civ Since 1500						
HIST 1121	Western Civilization I						
HIST 1122	Western Civilization II						
HIST 2111	American History I						
HIST 2112	American History II						
HIST 2154	Minorities in U.S. History						
HIST 2400	Economic History						
POLS 2401	Intro to Global Issues						
POLS 2501	Intro to Domestic Issues						
PSYC 1101	Intro to General Psychology						
RELI 1116	Intro to Religion						
SOCI 1101	Introductory Sociology						
SOCI 1160	Intro to Social Problems						
F. Courses Related to the Pathway							
CSCI 1301	Computer Science I	4					