Associate of Programming, AP

Program Description

The Programming degree prepares students for a Bachelor of Science degree in Computer Science, Data Science, or Software Engineering. It includes foundational courses needed in computing disciplines. To earn the degree, students will complete focused coursework in Software Engineering, Computer Science, or Data Science, with fewer general education requirements. This degree includes a minimum of 69 credit hours and a minimum of 30 credits of preparatory, specialized coursework. Students interested in pursuing Computer Science, Data Science, or Software Engineering can earn the Associate of Programming as a milestone to their chosen degree.

Program Curriculum

69 credits

Code	Title	Hours
General Education Requirements		6
Required Courses		
ENGL 1010	Introduction to Writing (EN)	3-4
or ENGL 1010D	Introduction to Writing (EN)	
CS 1030	Problem Solving with Computers	3-4
or MATH 1010	Intermediate Algebra	
CS 1400	Fundamentals of Programming	3
CS 1410	Object Oriented Programming	3
CS 2100	Discrete Structures	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2450	Software Engineering	3
CS 2810	Computer Organization and Architecture	3
MATH 1100	Business Calculus (MA)	3-4
or MATH 1210	Calculus I (MA)	
SET 1000	Graduation Planning & Career Prep I	0
Elective Courses		
It is recommended that students choose 8 elective courses based on their intended program of study		24

Select one of the following tracks.

Code	Title	Hours
Software Engineering Track		
ENGL 2100	Technical Writing (ALCS)	3
MATH 2050	Applied Statistics with Programming	3
SE 1400	Web Design Fundamentals (ALCS)	3
IT 1100	Introduction to Unix/Linux	3
Computer Science Track		
BIOL 1610	Principles of Biology I (LS)	4
or CHEM 1210	Principles of Chemistry I (PS)	
or PHYS 2210	Physics/Scientists Engineers I (PS)	
BIOL 1615	Principles of Biology I Lab (LAB)	1
or CHEM 1215	Principles of Chemistry I Lab (LAB)	
or PHYS 2215	Physics/Scientists Engineers I Lab (LAB)	
Data Science Track		
CS 2500	Data Wrangling	3

IT 1500	Cloud Fundamentals	1
MATH 1220	Calculus II (MA)	4

Graduation Requirements

1. Complete a minimum of 69 college-level credits (1000 and above).
2. Complete at least 20 lower-division credits at Utah Tech for institutional residency.
3. Cumulative GPA 2.0 or higher.
4. Grade C or higher in all Math and Science Requirements, Programming Requirements, and Programming Elective Requirements.