

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

UVU strives to ensure the accessibility of our catalogs. However, if individuals with disabilities need assistance with this information, they may contact the Assistive Technology Center at ACCESSIBLETECH@uvu.edu or 801-863-6788.

Requirements

The program introduces the student to a wide range of networking and data communications technologies and entry level programming.

Total Program Credits: 64

General Education Requirements:		13 Credits	
A minimum of 16 credits of General Education requirements are required for graduation. Not all GE requirements are listed in this section (see Specialty Core requirements for more details).			
	ENGL 1010	Introduction to Academic Writing	3
or	ENGL 1005	Literacies and Composition Across Contexts (5)	
HUMANITIES/FINE ARTS/FOREIGN LANGUAGE ¹			3
	COMM 2110	Interpersonal Communication (Minimum grade of C- required)	3
BIOLOGY			3
or	PHYS 2210	Physics for Scientists and Engineers I (4) (Minimum grade of C- required)	
PHYSICAL EDUCATION/HEALTH/SAFETY OR ENVIRONMENT ²			1
Discipline Core Requirements:		9 Credits	
Complete the following:			
	CS 1400	Fundamentals of Programming (Minimum grade of C- required)	3
	CS 2600	Computer Networks I (Minimum grade of C- required)	3
	CS 2810	Computer Organization and Architecture (Minimum grade of C- required)	3
Emphasis Requirements:		26 Credits	
Complete the following:			
	CS 1410	Object-Oriented Programming	3
	CS 2300	Discrete Mathematical Structures I	3
	CS 2370	C plus plus Programming WE	3
	CS 2420	Introduction to Algorithms and Data Structures	3
	CS 2450	Software Engineering	3
	CS 2550	Web Programming I	3
	CS 2690	Computer Networks II	3
	MATH 1210	Calculus	5
Emphasis Elective Requirements:		16 Credits	
Complete 16 credits from the following courses (minimum grade of C- required). (Must be approved by CSE Department. See CSE Advisor):			
	CS 1030	Foundations of Computer Science (3)	
	CS 281R	Internship (3.0 credits max.) (1)	

	ECE 2700	Digital Design I (3)	
and	ECE 2705	Digital Design I Lab (1)	
	IT 1510	Introduction to System Administration--Linux/UNIX (3)	
	MATH 1220	Calculus II (5)	
	PHYS 2215	Physics for Scientists and Engineers I Lab (1)	

Graduation Requirements:

1. Completion of a minimum of 64 semester credits.
2. Overall grade point average of 2.0 (C) or above.
3. Residency hours -- minimum of 20 credit hours through course attendance at UVU.

Footnote:

¹ COMM 1020 and COMM 1025 recommended

² HLTH 1100 or PES 1097 recommended

Computer Science - Computing and Networking Sciences Emphasis, A.A.S.

Computer Science - Computing and Networking Sciences Emphasis, A.A.S. Graduation Plan

This graduation plan is a sample plan and is intended to be a guide. Your specific plan may differ based on your Math and English placement and/or transfer credits applied. You are encouraged to meet with an advisor and set up an individualized graduation plan in [Wolverine Track](#).

Milestone courses (pre-requisites for a course in one of the subsequent semesters) are marked in red and italicized.

Semester 1	Course Title	Credit Hours
CS 1400	Fundamentals of Programming	3
ENGL 1010 or ENGH 1005	Introduction to Academic Writing or Literacies and Composition Across Context	3
COMM 2110	Interpersonal Communications	3
General Education	Choose HLTH 1100 or PES 1097	1
CS Elective	Choose from approved list	3
	Semester total:	13
Notes: Approved electives:CS 1030; CS 281R; ECE 2700/05; IT 1510; Math 1220		
Semester 2	Course Title	Credit Hours
CS 1410	Object Oriented Programming	3
CS 2810	Computer Organization & Architecture	3
MATH 1210	Calculus I	5
COMM 1020 and COMM 1025	Public Speaking and Public Speaking Lab	3
	Semester total:	14
Semester 3	Course Title	Credit Hours
CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms & Data Structures	3
CS 2370	C plus plus Programming WE	3
Biology or PHYS 2210	Biology or Physics for Scientists and Engineers I	3
PHYS 2215	Physics for Scientists and Engineers I Lab (Approved Elective)	1
	Semester total:	13
Semester 4	Course Title	Credit Hours
CS 2450	Software Engineering	3
CS 2550	Web Programming I	3
CS 2600	Computer Networks I	3
CS 2690	Computer Networks II	3
	Semester total:	12
Notes: Approved electives:CS 1030; CS 281R; ECE 2700/05; IT 1510; Math 1220		
Semester 5	Course Title	Credit Hours

CS Elective	Choose from approved list	3
CS Elective	Choose from approved list	3
CS Elective	Choose from approved list	3
CS Elective	Choose from approved list	3
	Semester total:	12
Notes: Approved electives:CS 1030; CS 281R; ECE 2700/05; IT 1510; Math 1220		
Notes: If contemplating BS degree, comply with BS pre-req and matriculation requirements		
	Degree total:	64