

Programmer, Certificate of Completion

The program introduces the students to basic, entry level programming.

Program Requirements

Code	Title	Credit Hours
Total Credit Hours		30
Discipline Core Requirements		21 Credits
CS 1400	Fundamentals of Programming	3
CS 1410	Object Oriented Programming	3
CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2600	Computer Networks I	3
CS 2810	Computer Organization and Architecture	3
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC Literacies and Composition Across Contexts CC	3
Elective Requirements		9 Credits
Choose 9 credits from the following courses (Must be approved by CSE Department. See CSE adviser):		9
CS 2450	Software Engineering WE (3)	
CS 2550	Web Programming I (3)	
CS 281R	Internship (1-8) (Must be taken for 3 credits)	
CS 3060	Operating Systems Theory (3)	
CS 3250	Java Software Development (3)	
CS 3260	CsharpNET Software Development (3)	
CS 3370	C Plus Plus Software Development (3)	
CS 3520	Database Theory (3)	
IT 1510	Introduction to System Administration--Linux/UNIX (3)	

Graduation Requirements

1. Completion of a minimum of 30 semester credits.
2. Minimum grade of C- required in all courses.
3. Overall grade point average of 2.0 (C) or above.
4. Residency hours -- minimum of 10 credit hours through course attendance at UVU.

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 (<http://www.uvu.edu/wolverinetrack/>).

First Year

Semester 1		Credit Hours
CS 1400	Fundamentals of Programming	3
ENGL 1010 or ENGH 1005	Introduction to Academic Writing CC or Literacies and Composition Across Contexts CC	3
Computer Electives		3
Credit Hours		9
Semester 2		
CS 1410	Object Oriented Programming	3
CS 2810	Computer Organization and Architecture	3
Computer Electives		3
Credit Hours		9

Second Year

Semester 3

CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2600	Computer Networks I	3
Computer Electives		3
Credit Hours		12
Total Credit Hours		30

Program Learning Outcomes

1. Graduates are able to develop solutions to moderately complex computing problems.
2. Graduates have proficiency in discrete mathematics.
3. Students understand the fundamentals of net-centric computing.