

Programmer, Certificate of Completion

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Requirements

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

Total Program Credits: 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	Introduction to Academic Writing	3
or ENGH 1005	Literacies and Composition Across Context (5.0)	
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 (3.0)	
CS 2550	Web Programming I (3.0)	
CS 281R	Internship (1.0) (Must be taken for 3 credits)	
CS 3060	Operating Systems Theory (3.0)	
CS 3250	Java Software Development (3.0)	
CS 3260	CsharpNET Software Development (3.0)	
CS 3520	Database Theory (3.0)	
CS 3370	C plus plus Software Development (3.0)	
IT 1510	Introduction to System Administration--Linux/UNIX (3.0)	

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.

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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
<i>CS 1400</i>	Fundamentals of Programming	3
ENGL 1010 or ENGH 1005	Introduction to Academic Writing or Literacies and Composition Across Context	3
Computer Electives	Choose from approved list. See CS Department Advisor	3
Semester total:		9
Semester 2	Course Title	Credit Hours
<i>CS 1410</i>	Object-Oriented Programming	3
<i>CS 2810</i>	Computer Organization and Architecture	3
Computer Electives	Choose from approved list. See CS Department Advisor	3
Semester total:		9
Semester 3	Course Title	Credit Hours
CS 2300	Discrete Mathematical Structures I	3
CS 2420	Introduction to Algorithms and Data Structures	3
CS 2600	Computer Networks I	3
Computer Electives	Choose from approved list. See CS Department Advisor	3
Semester total:		12
Note: If contemplating BS degree, comply with BS pre-req and matriculation requirements		
Degree total:		30