

# Information Systems and Technology, Undergraduate Certificate

Visit the Information Systems and Technology Department page (<https://www.uvu.edu/ist/>) for more information on the program and access to advising.

## Program Description

The Undergraduate Certificate in Information Systems and Technology is available to all UVU Students with a particular focus designed to provide high school students an opportunity to obtain a stackable certificate with an emphasis in career and technical education while still enrolled in high school. This certificate will be available from the University for college students/adults looking for basic entry-level skills leading to further academic advancement. Students complete a foundational core in programming, database, web application design, data communication, and networking.

## Program Requirements

Code	Title	Credit Hours
<b>Total Credit Hours</b>		<b>16</b>
<b>Discipline Core Requirements</b>		<b>10 Credits</b>
ENGL 1010 or ENGL 1005	Introduction to Academic Writing Foundations of Academic Writing	3
MATH 1050 or MATH 1055	College Algebra College Algebra with Preliminaries	4
INFO 1120	Information Systems and Technology Fundamentals	3
<b>Domain Requirements</b>		<b>6 Credits</b>
Complete 6 credits from one domain:		6
Information Systems Domain		
INFO 1200 or CS 1400	Computer Programming I for IS IT (3) Fundamentals of Programming	
INFO 2420	Web Application Design (3)	
Information Technology Domain		
IT 1510	Introduction to System Administration--Linux/UNIX (3)	
IT 1600	Computer Architecture and Systems Software (3)	

## Graduation Requirements

1. Completion of a minimum of 16 semester credits.
2. Minimum grade of C required in all courses.
3. Overall grade point average of 2.5 (C) or above.
4. Residency hours: minimum of 5 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
ENGL 1010 or ENGL 1005	Introduction to Academic Writing or Foundations of Academic Writing	3
MATH 1050 or MATH 1055	College Algebra or College Algebra with Preliminaries	4
INFO 1120	Information Systems and Technology Fundamentals	3
<b>Credit Hours</b>		<b>10</b>

### Semester 2

Complete 6 credits from one domain		6
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Information Systems Domain:	
INFO 1200 or CS 1400	Computer Programming I for IS IT or Fundamentals of Programming
INFO 2420	Web Application Design
Information Technology Domain:	
IT 1510	Introduction to System Administration--Linux/UNIX
IT 1600	Computer Architecture and Systems Software
<b>Credit Hours</b>	
<b>6</b>	
<b>Total Credit Hours</b>	
<b>16</b>	

## Program Learning Outcomes

1. Analyze a complex computing problem and to apply principles of computing and other relevant disciplines to identify solutions.
2. Support the delivery, use, and management of information systems within an information systems environment.
3. Apply tools, concepts, and computing techniques to solve business problems.

## Computer and information systems managers

- Total Positions 613,500
- Field Growth 17.4%
- Median Salary \$169,510
- Average Openings 54.7

## Computer systems analysts

- Total Positions 527,200
- Field Growth 10.7%
- Median Salary \$103,800
- Average Openings 37.3

## Computer and information research scientists

- Total Positions 36,600
- Field Growth 25.6%
- Median Salary \$145,080
- Average Openings 3.4

## Computer network architects

- Total Positions 177,800
- Field Growth 13.4%
- Median Salary \$129,840
- Average Openings 12.3

## Database administrators

- Total Positions 80,500
- Field Growth 8.2%
- Median Salary \$101,510
- Average Openings 5.3

## Database architects

- Total Positions 61,400
- Field Growth 10.8%
- Median Salary \$134,700
- Average Openings 4.2

## **Network and computer systems administrators**

- Total Positions 335,400
- Field Growth -2.6%
- Median Salary \$95,360
- Average Openings 16.4

## **Software quality assurance analysts and testers**

- Total Positions 205,000
- Field Growth 11.8%
- Median Salary \$101,800
- Average Openings 15.0

## **Web and digital interface designers**

- Total Positions 128,600
- Field Growth 7.9%
- Median Salary \$98,540
- Average Openings 9.9

## **Computer occupations, all other**

- Total Positions 470,900
- Field Growth 10.8%
- Median Salary \$104,920
- Average Openings 34.8

## **Computer science teachers, postsecondary**

- Total Positions 45,000
- Field Growth 6.1%
- Median Salary \$96,430
- Average Openings 3.7