

# Computer Science Major, Information Technology Emphasis Plan

The following suggested four-year plan is for students working toward a Bachelor of Science or Bachelor of Arts degree in Computer Science with an Information Technology Emphasis. Students should consult with their advisor to develop a plan of study tailored to their individual needs and interests.

## Freshman Year (30 credits)

### Fall Semester (15 credits)

<b>CS 1400</b> Introduction to Computer Science—CS 1.....	3
<b>CS 1405</b> Introduction to Computer Science—CS 1 Lab.....	1
<b>ENGL 1010 (CL1)</b> Introduction to Writing: Academic Prose .....	3
<b>MATH 1100 (QL)</b> Calculus Techniques .....	3
<b>USU 1010</b> University Connections .....	2
One University Studies breadth course .....	3

### Spring Semester (15 credits)

<b>ACCT 2010</b> Financial Accounting Principles .....	3
<b>CS 1410</b> Introduction to Computer Science—CS 2.....	3
<b>ECN 1500 (BAI)</b> Introduction to Economic Institutions, History, and Principles .....	3
Two University Studies breadth courses .....	6

## Sophomore Year (30-32 credits)

### Fall Semester (16-17 credits)

<b>ACCT 2020</b> Managerial Accounting Principles.....	3
<b>CS 2420 (QI)</b> Algorithms and Data Structures—CS 3.....	3
<b>CS 2810</b> Computer Systems Organization and Architecture I.....	3
Science Sequence I course.....	4-5
<b>ENGL 2010 (CL2)</b> Intermediate Writing: Research Writing in a Persuasive Mode .....	3

### Spring Semester (14-15 credits)

<b>CS 2450 (CI)</b> Introduction to Software Engineering I .....	3
<b>CS 3000</b> Undergraduate Seminar .....	1
<b>CS 3810</b> Computer Systems Organization and Architecture II.....	3
Science Sequence II course.....	4-5
One University Studies breadth course .....	3

## Junior Year (31 credits)

### Fall Semester (16 credits)

<b>CS 3410 (QI)</b> Computational Science: JAVA/Internet (F,Sp) (3 cr) <b>or</b>	
<b>CS 3420 (QI)</b> Computational Science: C# and .NET (F,Sp,Su) (3 cr) <b>or</b>	
<b>CS 3430 (QI)</b> Computational Science: Python and Perl Programming (Sp,Su) (3 cr) .....	3
<b>CS 3450 (CI)</b> Introduction to Software Engineering II .....	3
<b>CS 5800</b> Introduction to Database Systems.....	3
<b>MGT 3110 (DSS)</b> Managing Organizations and People.....	3
<b>STAT 2300 (QL)</b> Business Statistics .....	4

### Spring Semester (15 credits)

<b>CS 3100</b> Operating Systems and Concurrency.....	3
<b>CS 4700</b> Programming Languages .....	3
<b>FIN 3400 (QI)</b> Corporate Finance.....	3
<b>MGT 3500</b> Fundamentals of Marketing.....	3
<b>SPCH 1020 (BHU/CI)</b> Public Speaking (3 cr) <b>or</b>	
<b>ENGL 3080 (CI)</b> Introduction to Technical Communication (3 cr) .....	3

## Senior Year (29 credits)

### Fall Semester (14 credits)

<b>CS 5070</b> Computer Science Capstone I.....	1
<b>MGT 3710</b> Developing Team and Interpersonal Skills .....	3
<b>CS 5700</b> Object-Oriented Software Development .....	3
CS 5000-level elective course .....	4
One University Studies depth course .....	3

### Spring Semester (15 credits)

<b>CS 5050</b> Advanced Algorithms .....	3
<b>CS 5071</b> Computer Science Capstone II.....	3
<b>MGT 3080 (QI)</b> Operations Research .....	3
Advisor-approved elective courses.....	6