

Information Systems - Application Development Emphasis, B.S.

Requirements

The BS in Information Systems program prepares students to be Information Systems professionals. Graduates develop and deploy enterprise-level systems to meet organizational needs.

Total Program Credits: 124

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| General Education Requirements: | | 36 Credits |
| | ENGL 1010 Introduction to Writing (3.0) | 3 |
| | ENGL 2010 Intermediate Writing--Humanities/Social Sciences (3.0) | 3 |
| or | ENGL 2020 Intermediate Writing--Science and Technology (3.0) | |
| | MATH 1050 College Algebra (4.0) | 4 |
| or | MATH 1055 College Algebra with Preliminaries (5.0) | |
| American Institutions: Complete one of the following: | | 3 |
| | HIST 2700 US History to 1877 (3.0) | |
| and | HIST 2710 US History since 1877 (3.0) | |
| | HIST 1700 American Civilization (3.0) | |
| | HIST 1740 US Economic History (3.0) | |
| | POLS 1000 American Heritage (3.0) | |
| | POLS 1100 American National Government (3.0) | |
| Complete the following: | | |
| | PHIL 2050 Ethics and Values (3.0) | 3 |
| | HLTH 1100 Personal Health and Wellness (2.0) | 2 |
| or | PES 1097 Fitness for Life (2.0) | |
| Distribution Courses: | | |
| | Biology Distribution | 3 |
| | Physical Science Distribution | 3 |
| | An Additional Biology or Physical Science Distribution Course | 3 |
| | Fine Arts Distribution | 3 |
| | Humanities Distribution | 3 |
| | Social/Behavioral Science Distribution (ECON 2020 recommended) | 3 |
| Discipline Core Requirements: | | 67 Credits |
| Math Requirement: | | 3 |
| | MGMT 2340 Business Statistics I (3.0) | |
| IS Core Requirements: | | |
| | INFO 1120 Information Systems and Technology Fundamentals | 3 |
| | INFO 1200 Computer Programming I for IS/IT | 3 |
| | INFO 2200 Computer Programming II for IS/IT | 3 |
| | INFO 2410 Database Fundamentals | 3 |
| | INFO 2420 Web Application Design | 3 |
| | IM 2600 Spreadsheet Applications | 3 |
| | IT 2600 Data Communication Fundamentals | 3 |
| | IT 2700 Information Security Fundamentals | 3 |
| | COMP 301R Digital Lecture Series (1.0) | 1 |

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| INFO 3130 | Introduction to Applied Data Analytics | 3 |
| INFO 3410 | Database Systems and Warehousing | 3 |
| INFO 3420 | Web Systems Development | 3 |
| INFO 3430 | Systems Analysis and Design | 3 |
| INFO 3700 | Health Informatics Fundamentals | 3 |
| INFO 405G | Global Ethical and Professional Perspectives in IS and IT | 3 |
| INFO 4430 | Systems Design and Implementation | 3 |
| INFO 4440 | Enterprise Computing Environments | 3 |
| IS Environment/Business Foundation Requirements: | | |
| ACC 2010 | Financial Accounting (3.0) | 3 |
| ACC 2020 | Managerial Accounting (3.0) | 3 |
| MKTG 2200 | Written Business Communication (3.0) | 3 |
| MGMT 3000 | Organizational Behavior (3.0) | 3 |
| MKTG 3600 | Principles of Marketing (3.0) | 3 |
| Emphasis Requirements: | | 12 Credits |
| INFO 3422 | PHP Web Application Development | 3 |
| INFO 3426 | Web Content Management Systems Site Development | 3 |
| INFO 4420 | Mobile Business Application Development | 3 |
| INFO 4425 | Web Application Security | 3 |
| Emphasis Elective Requirements: | | 9 Credits |
| Choose 9 credit hours from the following: | | 9 |
| INFO 3750 | Healthcare Information Systems Applications (3.0) | |
| INFO 4422 | Advanced PHP Web Application Development (3.0) | |
| CS 2550 | Web Programming I (3.0) | |
| CS 3410 | Human Factors in Software Development (3.0) | |
| CS 3660 | Web Programming II (3.0) | |
| DGM 2760 | Web Languages I (3.0) | |
| DGM 2780 | Web Tools and Frameworks I (3.0) | |
| Other approved upper-division Information Systems courses | | |

Graduation Requirements:

1. Completion of at least 124 semester credits required in the BS degree; at least 40 credit hours must be upper-division courses.
2. Overall grade point average 2.0 or above with a minimum of 2.5 GPA in all discipline core, specialty core, and elective courses with no grade lower than a "C-."
3. Residency hours: Minimum of 30 credit hours through course attendance at UVU, with at least 10 hours earned in the last 45 hours.
4. Completion of GE and specified departmental requirements. Students are responsible for completing all prerequisite courses.
5. Successful completion of at least one Global/Intercultural course.

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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>ENGL 1010</i> | Introduction to Writing | 3 |
| <i>MATH 1050</i> | College Algebra | 4 |
| HLTH 1100 or PES 1097 | Personal Health & Wellness or Fitness for life | 2 |
| Fine Arts Distribution | | 3 |
| <i>INFO 1120</i> | Information Systems and Technology Fundamentals | 3 |
| Semester total: | | 15 |
| Notes: (1) Take INFO 1120 first or second semester. | | |
| Semester 2 | Course Title | Credit Hours |
| <i>ENGL 2010</i> or <i>ENGL 2020</i> | Intermediate Writing--Humanities/Social Sciences or Intermediate Writing--Science and Technology | 3 |
| Biology Distribution | | 3 |
| <i>INFO 1200</i> | Computer Programming I for IS/IT | 3 |
| <i>INFO 2420</i> | Web Application Design | 3 |
| IM 2600 | Spreadsheet Applications | 3 |
| <i>ACC 2010</i> | Financial Accounting | 3 |
| Semester total: | | 18 |
| Notes: (1) Must take INFO 1200 before taking INFO 2200 next semester. (2) Must take ACC 2010 before taking ACC 2020 next semester or the following semester. | | |
| Semester 3 | Course Title | Credit Hours |
| STAT 2050 or MGMT 2340 | Intro to Statistical Methods or Business Statistics I | 3 |
| INFO 2200 | Computer Programming II for IS/IT | 3 |
| <i>INFO 2410</i> | Database Fundamentals | 3 |
| <i>IT 2600</i> | Data Communication Fundamentals | 3 |
| <i>MKTG 2200</i> | Written Business Communication | 3 |
| Semester total: | | 15 |
| Notes: (1) Must take IT 2600 before taking IT 2700 next semester. | | |
| Semester 4 | Course Title | Credit Hours |
| ECON 2020 | Microeconomics (fulfills Social/Behavioral Science Distrib) | 3 |
| IT 2700 | Information Security Fundamentals | 3 |
| INFO 3130 | Intro to Applied Data Analytics | 3 |
| INFO 3700 | Health Informatics Fundamentals | 3 |
| ACC 2020 | Managerial Accounting | 3 |
| MGMT 3000 | Organizational Behavior | 3 |
| Semester total: | | 18 |

Notes: (1) Make sure you take statistics class by end of fourth semester. (2) INFO 3700 is offered fall semesters only.

| Semester 5 | Course Title | Credit Hours |
|---|---|--------------|
| American Institutions | | 3 |
| PHIL 2050 | Ethics and Values | 3 |
| INFO 3410 | Database Systems and Warehousing | 3 |
| INFO 3420 | Web Systems Development | 3 |
| <i>GEOG 1000</i> | Introduction to Physical Geography | 3 |
| <i>GEOG 1005</i> | Introduction to Physical Geography Lab | 1 |
| Semester total: | | 16 |
| Semester 6 | Course Title | Credit Hours |
| Physical Science Distribution | | 3 |
| Humanities Distribution | | 3 |
| Elective | | 3 |
| <i>MKTG 3600</i> | Principles of Marketing | 3 |
| Semester total: | | 12 |
| Notes: (1) Elective INFO 4130 offered Spring semesters only. (2) Electives offered Fall only: INFO 4410 and INFO 4420 | | |
| Semester 7 | Course Title | Credit Hours |
| Additional Biology or Physical Science | | 3 |
| <i>INFO 3430</i> | Systems Analysis and Design | 3 |
| INFO 405G | Global Ethical and Professional Perspectives in IS and IT | 3 |
| <i>GEOG 3600</i> or <i>GIS 3600</i> | Introduction to Geographic Information Systems | 4 |
| Elective | | 3 |
| Semester total: | | 16 |
| Notes: (1) Elective INFO 4130 offered Spring semesters only. (2) Electives offered Fall only: INFO 4410 and INFO 4420 | | |
| Semester 8 | Course Title | Credit Hours |
| COMP 301R | Digital Lecture Series | 1 |
| INFO 4430 | Systems Design and Implementation | 3 |
| INFO 4440 | Enterprise Computing Environments | 3 |
| MKTG 3620 or MKTG 3670 | Consumer Behavior or Advertising and Promotion | 3 |
| GEOG 3650 | Advanced Geographic Information Systems | 4 |
| Semester total: | | 14 |
| Notes: Must take INFO 4430 semester after taking INFO 3430. | | |
| Degree total: | | 124 |