Program Overview

The Information Systems (IS) program equips students with the practical and analytical skillsets required to manage businesses using information technologies. We help students build an adaptable knowledge base for their continued career advancement by gaining deeper understanding of the capabilities of rapidly advancing information technologies. Upon completion of our IS program, students will understand how to innovate organizational practices by acquiring, developing, deploying, and managing information technologies in an organization.

Academic Advising

It is recommended that students meet with an advisor regarding their individualized degree plan at least once per year.

Business School Advising

[undergrad.advising@ucdenver.edu](mailto:undergrad.advising@ucdenver.edu)

<https://business.ucdenver.edu/current-students/undergraduate-advising>   
Business School Building, floor 4; 303-315-8110

General Graduation Requirements & Policies

All CU Denver Business students are required to complete the following minimum general graduation requirements:

1. Complete a minimum of 120 applicable course hours.
2. Achieve a minimum 2.0 CU cumulative grade point average (GPA) and business GPA.
3. Complete a minimum of 45 upper division (3000/4000 level) credits.
4. Complete a minimum of 30 CU Denver business course hours in good standing.

Course Schedule & Delivery Modes

CU Denver offers courses in both in person (IP) and online (OL) delivery modes. Students may complete this degree either entirely in person OR entirely online. Students that need to take classes either online or in person will need to pay attention to when courses are offered in the format needed. Below are the required classes for this major and when they are generally offered in person and online. Students will need to choose core classes and electives that meet their individual needs:

**COURSE SCHEDULES ARE SUBJECT TO CHANGE!**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **When** | **Fall** | **Spring** | **Summer** |
| **Core Classes** |  |  |  |  |
| ENGL 1020 | Semester 1 | IP & OL | IP & OL | IP & OL |
| ENGL 2030 | Semester 2 | IP & OL | IP & OL | IP & OL |
| MATH 1060 Finite Math | Semester 1 | IP & OL | IP & OL | OL |
| Social Sciences: ECON 2012 | Semester 3 | IP & OL | IP & OL | IP & OL |
| **Graduation Requirements for Business** |  |  |  |  |
| UNIV 1110 College Success | Semester 1 | IP & OL | IP & OL | - |
| COMM 2050 Business and Professional Speaking | Semester 2 | IP & OL | IP & OL | OL |
| ECON 2022 Principles of Economics: Microeconomics | Semester 4 | IP & OL | IP & OL | IP & OL |
| ENGL 3170 Business Writing | Semester 4 | IP & OL | IP & OL | OL |
| **Business Core:** |  |  |  |  |
| BUSN 2110+BUSN 3110 | Semesters 2 & 3 | IP & OL | IP & OL | - |
| ISMG 2050 Introduction to Business Problem Solving | Semester 2 | IP & OL | IP & OL | OL |
| BANA 2010 Business Statistics | Semester 3 | IP & OL | IP & OL | IP & OL |
| ACCT 2200 Financial Accounting & Financial Statement Analysis | Semester 3 | IP & OL | IP & OL | Either IP or OL |
| ACCT 2220 Managerial Accounting and Professional Issues | Semester 4 | IP & OL | IP & OL | OL |
| BLAW 3050 Business Law and Ethics | Semester 6 | IP & OL | IP & OL | OL |
| BANA 3000 Operations Management | Semester 7 | IP & OL | IP & OL | IP & OL |
| FNCE 3000 Principles of Finance | Semester 6 | IP & OL | IP & OL | OL |
| ISMG 3000 Technology in Business | Semester 5 | IP & OL | IP & OL | OL |
| MGMT 3000 Managing Individuals and Teams | Semester 5 | IP & OL | IP & OL | OL |
| MKTG 3000 Principles of Marketing | Semester 5 | IP & OL | IP & OL | OL |
| MGMT 4500 Business Policy and Strategic Management | Semester 8 | IP & OL | IP & OL | OL (May) |
| **Information Systems Required Classes** |  |  |  |  |
| ISMG 3500 Business Data & Database Management | Semester 5 or 6 | IP | OL | - |
| ISMG 3600 System Strategy, Architecture and Design | Semester 5 or 6 | OL | IP | - |
| ISMG 4300 Information Security & Privacy | Semester 6 or 7 | OL | IP | - |
| ISMG 4400 Python Programming Fund. | Semester 6 or 7 | IP | OL | - |
| ISMG 4700 Business Data Communications and Networking | Sem 7 or Summer | IP | - | OL |
| ISMG/MGMT 4900 Project Management and Practice | Semester 7 or 8 | IP & OL | IP & OL | Either IP or OL |
| ISMG 4720 Enterprise Security (NEW COURSE) | Semester 6 or 7 | IP & OL | - | - |
| ISMG 4860 Ethical Hacking Concepts & Methodologies | Semester 7 or 8 | IP & OL | - | - |
| ISMG 4865 Digital Forensics Analysis | Semester 7 or 8 | - | IP & OL | - |

Sample Academic Plan of Study

The following academic plan is a ***sample*** pathway to completing degree requirements. This schedule can be adjusted to accommodate AP, IB, and/or CLEP credits, as well as courses taken during the summer sessions. Students should tailor this plan based on transfer credit, course availability, and individual preferences related to course load, schedules, and add-on programs such as minors or double majors. Students must complete an experiential learning credit (internship, study abroad program, or project-based course) and a capstone course taken in their final semester. **This plan assumes that the foreign language graduation requirement has been completed with high school courses or proficiency exam.**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year One | **Semester 1** | Credits |  | **Semester** **2** | Credits |
| ENGL 1020 Core Composition I | 3 |  | ISMG 2050 Intro to Business Problem Solving | 3 |
| MATH 1060 Finite Math | 3 |  | ENGL 2030 Core Composition II | 3 |
| Arts, Humanities, OR Behavioral Science | 3 |  | COMM 2050 Business and Professional Speaking | 3 |
| Arts, Humanities, OR Behavioral Science | 3 |  | Natural and Physical Sciences with a Lab | 4 |
| UNIV 1110 College Success | 1 |  | Arts, Humanities, OR Behavioral Science | 3 |
|  |  |  |  |  |
| **TOTAL SEMESTER HOURS** | **13** |  | **TOTAL SEMESTER HOURS** | **16** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year Two | **Semester 3** | Credits |  | **Semester 4** | Credits |
| ACCT 2200 Financial Accounting and Financial Statement Analysis | 3 |  | ACCT 2220 Managerial Accounting and Professional Issues | 3 |
| BANA 2010 Business Statistics | 3 |  | ECON 2022 Principles of Economics: Microeconomics | 3 |
| Social Sciences: ECON 2012 Macroeconomics | 3 |  | Natural and Physical Sciences | 3 |
| ENGL 3170 Business Writing | 3 |  | General Elective *(or Regional Expertise/ Language)* | 3 |
| General Elective *(or Regional Expertise/ Language)* | 3 |  | General Elective *(or Regional Expertise)* | 3 |
| BUSN 2110 Cultivating Emotional Intelligence | 1 |  | BUSN 3110 Career & Professional Development | 1 |
| **TOTAL SEMESTER HOURS** | **16** |  | **TOTAL SEMESTER HOURS** | **16** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Year Three | **Semester 5** | Credits |  | **Semester 6** | Credits |
| ISMG 3500 Business Data & Database Mgmt. (or 3600) | 3 |  | ISMG 3600 System Strategy, Arch. And Design (or 3500) | 3 |
| ISMG 4700 IT Infrastructure (OL in summer) | 3 |  | ISMG 4300 Information Security & Privacy (or 4400) | 3 |
| BANA 3000 Operations Management | 3 |  | BLAW 3050 Business Law and Ethics | 3 |
| ISMG 3000 Technology in Business | 3 |  | FNCE 3000 Principles of Finance | 3 |
| MGMT 3000 Managing Individuals and Teams | 3 |  | MKTG 3000 Principles of Marketing | 3 |
| **TOTAL SEMESTER HOURS** | **15** |  | **TOTAL SEMESTER HOURS** | **15** |

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| --- | --- | --- | --- | --- | --- |
| Year Four | **Semester 7** | Credits |  | **Semester 8** | Credits |
| ISMG 4400 Python Programming Fund. (or 4300) | 3 |  | ISMG/MGMT 4900 Project Management and Practice | 3 |
| ISMG 4720 Enterprise Security  ISMG 4865 Digital Forensics Analysis | 3 |  | ISMG 4865 Digital Forensics Analysis | 3 |
| ISMG 4860 Ethical Hacking Concepts & Methodologies | 3 |  | MGMT 4500 Business Policy and Strategic Management | 3 |
| International Studies | 3 |  | Cultural Diversity | 3 |
| General Elective | 2 |  | International Perspectives | 3 |
| **TOTAL SEMESTER HOURS** | **14** |  | **TOTAL SEMESTER HOURS** | **15** |

Degree Requirements

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Courses** | **Credits** | **Prerequisites** | **Term** | | **Credits** | **Grade** |
| \*Students are responsible for consulting advisors for current prerequisite and scheduling information as they change regularly | | | |  |  |  |
| **Required CU Denver Core Curriculum Coursework** | **34** |  | |  |  |  |
| ENGL 1020 | 3 |  | |  |  |  |
| ENGL 2030 | 3 | ENGL 1020 | |  |  |  |
| MATH 1060 Finite Math | 3 |  | |  |  |  |
| Arts | 3 |  | |  |  |  |
| Humanities | 3 |  | |  |  |  |
| Behavioral Sciences | 3 |  | |  |  |  |
| Social Sciences: ECON 2012 | 3 |  | |  |  |  |
| Natural and Physical Sciences **with lab** | 4 |  | |  |  |  |
| Natural and Physical science | 3 |  | |  |  |  |
| Cultural Diversity | 3 | Junior Standing - BUSN/MGMT 4100 recommended | |  |  |  |
| International Perspectives | 3 | INTB 3000, INTB 4400 or MKTG4200 recommended | |  |  |  |
| **Graduation Requirements for Business** | **13** |  | |  |  |  |
| UNIV 1110 College Success | 1 | Only required for entering first term freshmen | |  |  |  |
| COMM 2050 Business and Professional Speaking | 3 |  | |  |  |  |
| ECON 2022 Principles of Economics: Microeconomics | 3 |  | |  |  |  |
| ENGL 3170 Business Writing | 3 | Sophomore standing | |  |  |  |
| Experiential Learning (ISMG/MGMT 4900 required) | 3 | [ISMG 3000](https://catalog.ucdenver.edu/search/?P=ISMG%203000) or [ACCT4054](https://catalog.ucdenver.edu/search/?P=ACCT%204054) and [MGMT3000](https://catalog.ucdenver.edu/search/?P=MGMT%203000) and [MKTG3000](https://catalog.ucdenver.edu/search/?P=MKTG%203000) OR [ISMG3000](https://catalog.ucdenver.edu/search/?P=ISMG%203000) and [ISMG3500](https://catalog.ucdenver.edu/search/?P=ISMG%203500) and [ISMG3600](https://catalog.ucdenver.edu/search/?P=ISMG%203600). | |  |  |  |
| **Business Core** | **35** |  | |  |  |  |
| BUSN 2110+BUSN 3110 | 2 | 1 credit each | |  |  |  |
| ISMG 2050 Introduction to Business Problem Solving | 3 |  | |  |  |  |
| BANA 2010 Business Statistics | 3 | MATH 1060 with **C-** or better | |  |  |  |
| ACCT 2200 Financial Acct and Statement Analysis | 3 | MATH 1060 with **C-** or better | |  |  |  |
| ACCT 2220 Managerial Acct & Professional Issues | 3 | ACCT 2200 with **C-** or better | |  |  |  |
| BLAW 3050 Business Law and Ethics | 3 | 45 + credits complete | |  |  |  |
| BANA 3000 Operations Management | 3 | ACCT 2200, BANA 2010 with **C-** or better & 45 + credits | |  |  |  |
| FNCE 3000 Principles of Finance | 3 | MATH 1060, ACCT 2200, BANA 2010 with **C-** or better, ECON 2012, ECON 2022 & 45 + credits complete | |  |  |  |
| MGMT 3000 Managing Individuals and Teams | 3 | 45 + credits complete | |  |  |  |
| MKTG 3000 Principles of Marketing | 3 | 45 + credits complete | |  |  |  |
| ISMG 3000 Technology in Business | 3 | BANA 2010, COMM 2050 with **C-** or better & 45+ credits | |  |  |  |
| MGMT 4500 Business Policy and Strategic Management | 3 | All Business Core with **C-** or better | |  |  |  |
| **International Studies** | **3** |  | |  |  |  |
| ACCT 4370, MKTG/INTB 4200, FNCE/INTB 4370,  MGMT/INTB 4400, RISK 4509 | 3 | Choose one | |  |  |  |
| **Major: Information Systems** | **24** |  | |  |  |  |
| ISMG 3500 Business Data & Database Management | 3 | ISMG 2050 with **C-** or better | |  |  |  |
| ISMG 3600 System Strategy, Architecture and Design | 3 | ISMG 2050 with **C-** or better | |  |  |  |
| ISMG 4300 Information Security & Privacy | 3 | Junior Standing, Coreq: ISMG 3000 | |  |  |  |
| ISMG 4400 Python Programming Fund. | 3 | ISMG 2050, Coreq: ISMG 3500 | |  |  |  |
| ISMG 4700 IT Infrastructure | 3 | Junior Standing | |  |  |  |
| ISMG/MGMT 4900 Project Management and Practice | 0 | (Counts for Experiential Learning), Junior Standing | |  |  |  |
| ISMG 4720 Enterprise Security (NEW COURSE) | 3 | ISMG4300 and ISMG4700 | |  |  |  |
| ISMG 4860 Ethical Hacking Concepts & Methodologies | 3 | Recommendation: ISMG 4700 or equivalent is advised, but not required | |  |  |  |
| ISMG 4865 Digital Forensics Analysis | 3 |  | |  |  |  |
| **Language Proficiency Level 1 and 2 or Regional Expertise** | **10** | If proficiency is met, student is responsible for completing 10 additional electives | |  |  |  |
| **Other Courses-Electives** | **1** | 14 if language proficiency is met | |  |  |  |
| **Total Credit Hours: 120** | | | |  |  |  |