

# BACHELOR OF SCIENCE IN INFORMATION SYSTEMS MANAGEMENT

"FOR WE ARE GOD'S WORKMANSHIP, CREATED IN CHRIST JESUS TO DO GOOD WORKS, WHICH GOD PREPARED IN ADVANCE FOR US TO DO." - EPHESIANS 2:10

In *Business @ the Speed of Thought*, Bill Gates posits that the gathering, management, and use of information determine whether companies will win or lose in today's competitive business environment. CCU's Management of Information Systems degree prepares you for success in the highly competitive business world through an integrated curriculum that combines key aspects of computer technology with essential business-management principles.

## THIS DEGREE IS FOR YOU IF:

- You're looking for a career change after being out of the workforce.
- You want to advance in your current position, but don't have the necessary degree.
- You're currently working and want to update your knowledge base.

## Management of Information Systems Program Focus Areas

**Management of Information Systems:** Learn the importance of the interplay between technology and managerial skills required for today's business-information and communication systems, including project management, systems analysis and design, database management, interfacing rules, protocols, standards, and networking solutions.

**Internet Development and e-Commerce:** Explore emerging information systems and communication technologies and their influence in today's global marketplace.

**Infrastructure and System Planning:** Understand the development cycle, structured and event-driven programming methods, decision structures for effective design, and management and acquisition.

**Information Security:** Analyze various aspects of project risk and its effective use to enhance organizational opportunities. Understand vulnerabilities, exposures, and appropriate countermeasures to address.

## WHY YOU WANT TO CHOOSE CCU

**You have the opportunity to learn with a biblical worldview.** CCU offers a complete education designed to develop you intellectually, professionally, and spiritually.

**Your life before CCU can work to your benefit.** CCU's life experience policy lets you earn credits toward your degree through examination, prior military service, or a business internship program that earns credits in a real-life work environment.

**You can attend a program designed for the adult learner.** A combination of online instruction and Web-enhanced, in-seat courses gives you greater flexibility to complete assignments while honoring important family and work commitments. We also recognize your work experience as a valuable contribution to online discussions and assignments.

**You matter as a person at CCU.** You'll receive personal attention from faculty and staff who want to know you as an individual, and help you reach your goals.

**Your experience will be reinforced with an emphasis on personal and professional ethics.** You will explore philosophy, theories, and values as the basis for ethical decision making.

**Your degree is from an accredited institution.** CCU is accredited by the Higher Learning Commission of the North Central Association of Colleges and Schools.



*The information technology field will be one of the fastest-growing industries for new jobs between now and 2012.*

—U.S. Department of Labor estimate

## OFFERED AT:

- Colorado Springs Center
- Denver Tech Center
- Lakewood Center
- Northglenn Center
- Global Enrollment Center
- Grand Junction Center
- Loveland Center

Contact an enrollment counselor at 303.963.3311 or visit our Web site at [www.ccu.edu/ags](http://www.ccu.edu/ags)

## WHY LEARNING IS DIFFERENT AT CCU

CCU's personal approach to teaching and learning means you'll receive the finest education available in a small-class-size environment. Our faculty members bring scholarship and experience alive in the classroom, applying a wealth of academic and professional experience, and affording you the advantages of real-life perspectives while you learn.

### Major Courses for a Bachelor of Science Degree in Information Systems Management

Please visit [www.ccu.edu/catalog](http://www.ccu.edu/catalog) for additional general education or elective course requirements for this degree.

#### PHL205A Worldviews (3)

Examines the most prominent worldviews existing today to help understand the basis of each while presenting a valid case for Christian theism.

#### HUM425A Personal and Social Ethics (3)

Explores the philosophy of life, ethical theories, and values as a basis for social ethics, institutional administration, and a responsible lifestyle.

#### BUS452A Organizational Behavior (3)

How group behavior affects organizational effectiveness, decision making, and group conflicts; strategies for efficient group and task management; introduction to effective written communication.

#### MGT270A Project Management Fundamentals (3)

Explores strategic aspects and focuses on the development of leadership skills in the management of project teams.

#### ISM270A Management of Information Systems (3)

Study of information systems focusing on delivering value to the user and organization, and creating process efficiencies through the analysis, design, and implementation of systems.

#### ISM312A Internet Development and e-Commerce (3)

An overview of today's technology-based marketplace that uses electronic commerce to buy and sell products and services and to enhance business processes over the Internet. Students review current Internet languages for programming, appearance, and organization of information, and they examine applications of marketing and business strategies, as well as legal, ethical, tax, and payment issues when conducting business on the Internet.

#### ISM316A Information Security (3)

Basic information goals of availability, integrity, accuracy, and confidentiality. Vocabulary and terminology are discussed with specific regard to the field of information security. Identification of exposures, vulnerabilities, and appropriate countermeasures are addressed. The importance of appropriate planning and administrative controls is also discussed.

#### ISM330A Information Technology Infrastructure (3)

Covers the unique dimensions of leading information-technology employees and resources toward organizational goals; aligning IT infrastructure with business process.

#### ISM410A Enterprise Architecture and Knowledge Management (3)

Study of the need for supporting knowledge management and also of the technical knowledge necessary to plan and manage enterprise architecture for today's business-technology and communication systems. Focus on problems in computer communications and interfacing, rules, protocols, and current and future standards, including designing and implementing business networking solutions (LANs, WANs) and network security.

#### ISM426A Data and Information Management (3)

Course provides technical and managerial skills in planning, analysis, logical design, physical design, and implementation of a database. Course topics include: database concepts; data models query languages; SQL; entity-relationship modeling, normalization, object-oriented databases, ORACLE database management, data warehousing, database integrity management (data security), database replication/synchronization; and transaction management.

### DEGREE QUICK FACTS:

- **120 Credit Hours**
  - 48 General Education
  - 39 Major
  - 33 Electives
- Apply up to 31 credits earned from your prior life experiences



**ISM440A Systems Analysis and Design (3)**

Study of management of software teams and building software using agile methodology and scrum; object-oriented programming development methods, data types, operators, expressions, control flow, and input and output of a specific programming language.

**ISM464A Software Application and Design (3)**

Introduction to computing as a science, with an emphasis upon creating models of problems represented, manipulated, and solved by computers. A programming language will be used to introduce the concepts of developing algorithms, data models, data structures, and object-oriented software engineering, programming approaches, and Web development.

**ISM491A Information Systems Capstone (3)**

Students assimilate and apply previous coursework and experiences in the ISM program to provide a comprehensive solution to a problem in the area of management information systems.

SAMPLE DEGREE PROGRAM

**BACHELOR OF SCIENCE IN  
INFORMATION SYSTEMS MANAGEMENT**

120 Credit Hours Required for Graduation

**GENERAL EDUCATION REQUIREMENTS**

48 Hours (Transferable)

- Communication (9)
- Humanities (9)
- History, Behavioral, and Social Sciences (12)
- Biblical Studies (6)
- Mathematics (3)
- Natural/Physical Science (3)
- Computer Science (3)
- INT 200A Adult Studies Seminar (3) (Not Transferable)

**FOUNDATIONS AND ELECTIVES**

33 Hours (Transferable)

- Minor Degree (optional)
- Certificate (optional)
- Prior Learning Credit (optional)

**MAJOR**

39 Hours

- PHL 205A Worldviews (3)
- BUS 452A Organizational Behavior (3)
- ISM 270A Management of Information Systems (3)
- MGT 270A Project Management Fundamentals (3)
- ISM 316A Information Security (3)
- ISM 330A Information Technology Infrastructure (3)
- ISM 440A Systems Analysis and Design (3)
- ISM 312A Internet Development and e-Commerce (3)
- ISM 410A Enterprise Architecture and Knowledge Management (3)
- ISM 426A Data and Information Management (3)
- ISM 464A Software Application and Design (3)
- HUM 425A Personal and Social Ethics (3)
- ISM 491A Information Systems Capstone (3)

**NOTES:**

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**THANK YOU FOR YOUR INTEREST IN CCU!**

**CENTRAL COLORADO REGION**

**DENVER TECH CENTER**

304 Inverness Way South, Suite 150  
Englewood, CO 80112  
Phone: 303.963.3030, Fax: 303.301.6030

**LAKWOOD CENTER**

200 S. Garland St.  
Lakewood, CO 80226  
Phone: 303.963.3300, Fax: 303.963.3301

**NORTHERN COLORADO REGION**

**LOVELAND CENTER**

3553 Clydesdale Parkway, Suite 300  
Loveland, CO 80538  
Phone: 970.669.8700, Fax: 303.301.8320

**NORTHGLENN CENTER**

10190 Bannock St., Suite 200  
Northglenn, CO 80260  
Phone: 303.963.3320, Fax: 303.963.3321

**STERLING CENTER**

100 College Ave.  
Sterling, CO 80751  
Phone: 970.521.6855, Fax: 970.522.5542

**SOUTHERN COLORADO REGION**

**COLORADO SPRINGS CENTER**

1125 Kelly Johnson Blvd., Suite 105  
Colorado Springs, CO 80920  
Phone: 719.867.5800, Fax: 719.867.5820

**PETERSON AFB**

Phone: 719.867.5800

**SCHRIEVER AFB**

Phone: 719.867.5800

**U.S. AIR FORCE ACADEMY**

Phone: 719.867.5800

**WESTERN COLORADO REGION**

**GRAND JUNCTION CENTER**

2452 Patterson Rd., Suite 200  
Grand Junction, CO 81505  
Phone: 970.242.1811, Fax: 970.242.7092

**GLOBAL ONLINE**

**GLOBAL ENROLLMENT CENTER**

10190 Bannock St.  
Northglenn, CO 80260  
Phone: 303.963.3320

For more information about how Colorado Christian University can give rise to your educational dreams, visit [www.ccu.edu](http://www.ccu.edu) or contact an enrollment counselor at 303.963.3311

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Colorado Christian  
**UNIVERSITY**

College of Adult and Graduate Studies

8787 W. Alameda Ave.  
Lakewood, CO 80226