

Computer Information Systems

at Benedictine University

Why study computer information systems at Benedictine?

By studying Computer Information Systems at Benedictine University, you will acquire a solid foundation in information systems coupled with an understanding of and experience in its application to business, mathematics or science. You will also choose electives that allow you to concentrate on applications for the business programmer or systems analyst, or the theory and applications of computers.

Throughout the course of study, students will develop a solid foundation in problem-solving, algorithm development, data structures, programming and computer organization, as well as in accounting, economics, finance, management and marketing. A balance of technical and business skills is vital to a successful career. In addition to the University's core requirements that develop the liberal education of all students, you will complete at least 29 credit-hours in information systems, 15 credit-hours in business courses and 10 credit-hours in mathematics.

Technology Resources

The Department of Computer Science and Information Systems is part of the College of Science and is located in the Birck Hall of Science. Computer labs across the campus provide a network of more than 125 personal computers using the Microsoft Windows 7 operating system. The department maintains the Computer Research Laboratory consisting of twelve personal computers, four laptops and a multi-processor Linux cluster, plus file and web servers. Program development is accomplished through Java and the Microsoft Visual Studio, which includes Visual C++, Visual C# and Visual Basic. Microsoft Office is the standard office suite. All students are eligible for on-campus network accounts and e-mail accounts, which are accessible from off-campus.

What careers are available with a Computer Information Systems degree?

Your knowledge of information systems and its applications will make careers in information technology (IT) possible. High-growth industries include IT consulting, education, health care, computer sales, wholesale, retail, business services, financial services, insurance and real estate. Typical entry positions include systems analyst, business analyst, programmer and helpdesk/technical support. Benedictine graduates have a proven record of success. Many of our graduates are selected by their employers to pursue a master's degree.

Gaining Experience

You will have the opportunity to be involved in activities that complement your field of study. Projects, research and assisting in the computer laboratories can provide you with experience in information systems on campus. You can acquire valuable experiences off campus through part-time jobs and internships in organizations such as Navistar, Argonne National Laboratory and other local companies. Recent graduates have obtained their first job at their internship site.

Recommended Program

Bachelor of Science in Computer Information Systems (C.I.S.)

FRESHMAN

Writing Colloquium	3
Finite Math or College Algebra	3
Introduction to Information Systems	2
Visual Programming Laboratory	2
Accounting I	3
Philosophy core elective	3
	16

Research Writing	3
Computer Programming	4
Business Calculus	3
Accounting II	3
Life Science core elective	3
	16

JUNIOR

CIS Elective or Systems Analysis and Design	3
Managerial Finance, Management or Marketing	3
Cultural Heritage (HUMN 240)	3
Religion core elective	3
Psychology/Sociology core elective	3
	15

CIS Elective or Project Management	3
Managerial Finance, Management or Marketing	3
Anthropology/Political Science core elective	3
Literature/Foreign Language Core	3
Cultural Heritage (HUMN 250)	3
	15

SOPHOMORE

Speech Communication	3
Introduction to Computer Systems	3
Data Structures and Algorithms I	3
Discrete Mathematics	4
Cultural Heritage (HUMN 220)	3
	16

Object-Oriented Design and Programming	3
Principles of Macroeconomics or Microeconomics	3
Statistics I	3
Cultural Heritage (HUMN 230)	3
Physical Science core elective	3
	15

SENIOR

CIS Elective or Systems Analysis and Design	3
Fine Arts/Music core elective	3
Electives	9
	15

Capstone Project	3
Electives	9
CIS Elective or Project Management	3
	15

ELECTIVE OFFERINGS IN COMPUTER INFORMATION SYSTEMS:

- Database Management Systems
- Systems Analysis and Design
- Computer Networks and Data Communications
- Information and File Storage Systems
- Web Application Development
- Project Management

- Selected Topics
- Database Management Systems Practicum
- Computer Networks Practicum

You may choose a minor in computer information systems by taking a minimum of 21 credit-hours.