COMPUTER INFORMATION SYSTEMS

Successful business strategies in 21stcentury organizations depend on integrating information technology in planning, production, marketing, and management. Bentley's Computer Information Systems (CIS) graduates are among the most highly sought-after business professionals in today's job market.

Our CIS degree focuses on essential information technologies, providing specific expertise to analyze, design and develop information systems ranging over all business functions, and across every industry. You also will learn how to recognize the ethical implications in all business decisions and how to incorporate these considerations into business decision-making.

The CIS Sandbox is Bentley's technology social learning space, located in Smith 234. Students visit the CIS Sandbox to meet with peer tutors, collaborate on group projects, and try out technology devices including Android tablets, Raspberry Pi computers, and an Oculus Rift virtual reality headset. The CIS Sandbox also offers informal educational events such as career talks by CIS alumni and site visits to area high tech companies. For more information, visit cissandbox.com.

EXPERIENTIAL LEARNING

You can choose to further your classroom knowledge through our hands-on learning programs: corporate partnerships, internships, service-learning and study abroad.

By participating in these opportunities, you will gain valuable real-world experience, learn about diverse people and perspectives, and gain new skills for living and working in a global community.

CAREERS

The CIS degree prepares you to succeed in any of the emerging and varied roles of the IT professional, including business analyst, systems analyst, application developer. systems integrator, IT liaison, end-user support, network manager, vendor representative, and technical support specialist. Specific positions for CIS graduates can include:

- Business Analyst
- Database analyst/developer
- Data security analyst/risk analyst
- E-commerce analyst
- Networking analyst/architect
- Quality assurance analyst/tester
- Software engineer
- Web designer
- Web developer

REQUIRED AND **ELECTIVE COURSES**

MAJOR REQUIREMENTS

Data and Information Management

Programming Fundamentals with Java

Business Processing and Communication Infrastructure

Database Management Systems

Business Systems Analysis and Modeling

IN ADDITION, YOU MUST CHOOSE THREE OF THE FOLLOWING **ELECTIVES:**

Object-Oriented Application Development

Multi-Tiered/Web Application Development

Advanced Net-Centric Computing

IS Project Management and Practice

Mobile Application Development

Programming with Python

Directed Study in Computer Systems

MINOR REQUIREMENTS

Introduction to Data and Information Management

The World Wide Web

IN ADDITION, YOU MUST CHOOSE TWO OF THE FOLLOWING **ELECTIVES:**

Object-Oriented Application Development

Business Systems Analysis and Modeling

Advanced Net-Centric Computing

Business Processing and Communications Infrastructure

Database Management Systems

Applied Software Project Management

Programming Fundamentals with Java

Programming with Python

Additional requirements apply for degree completion



FOR MORE INFORMATION

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MAIL Bentley University, 175 Forest Street, Waltham, MA 02452 USA

Most Bentley students pursuing a Bachelor of Science degree take the following courses:

GENERAL EDUCATION REQUIREMENTS

Information Technology Expository Writing I Expository Writing II Mathematical Sciences I

Mathematical Sciences II

Government

Problems of Philosophy
Principles of Microeconomics
Principles of Macroeconomics

First-Year Seminar (one credit)

For each of the following requirements you can choose an applicable course from a wide variety of offerings:

Literature/Cinema

Natural Sciences

Math or Natural Sciences elective

History

Behavioral Sciences

Humanities/Social Science elective

BUSINESS CORE REQUIREMENTS

Legal and Ethical Environment of Business Tools and Concepts

in Accounting and Finance

Practice and Applications in Accounting and Finance

Business Statistics

Marketing-Operations Fundamentals

Human Behavior and Organizations

Business Processes and Systems

Integrated Business Project

Global Strategy

BUSINESS-RELATED ELECTIVES

Choose one course

ARTS AND SCIENCES

Choose five courses

UNRESTRICTED ELECTIVES

Choose two courses

TAKE IT TO THE NEXT LEVEL.

After you've selected a major, what else can you do to make your education work harder? Customize your degree with an optional second major, choose a minor or get a head start on graduate study.

LIBERAL STUDIES MAJOR You can choose to pair your business degree with the Liberal Studies major (LSM), an optional second major with eight different concentrations. The LSM is designed to help you learn how to connect your business studies with key topics in the arts and sciences, providing you with skills in critical thinking, problem solving, creative analysis and communication — all of which will help you stand out to future employers. The LSM does not require any extra courses beyond the normal curriculum requirements.

The LSM concentrations are:

- American Studies
- Diversity and Society
- Earth, Environment and Global Sustainability
- Ethics and Social Responsibility
- Global Perspectives
- Health and Industry
- Media Arts and Society
- Quantitative Perspectives

MINORS You can further specialize your studies through one of our minors.

- Accountancy
- Actuarial Science
- Business Economics
- Business Risk Assurance
- Business Studies
- Computer Information Systems
- Data Technologies
- Earth, Environment and Global Sustainability
- English and Media Studies
- Entrepreneurial Studies
- Ethics and Compliance
- Finance
- Gender Studies
- Global Management
- Health and Industry
- History
- Human Resources Management
- Information and Process Management

- Information Design and Corporate Communication
- International Affairs
- International Economics
- Law
- Leadership
- Management
- Marketing
- Mathematical Sciences
- Modern Languages
- Nonprofit Organizations
- Philosophy
- Politics
- Psychology
- Public Policy
- Sociology
- Spanish for Business
- Sports Business Management
- Supply Chain and Operations Management
- Sustainable Investing

FALCON FAST-TRACK PROGRAM The Falcon Fast-Track program is designed for motivated undergraduate students with high academic standing in ANY undergraduate major. Depending on the program of study, master's degree requirements may be completed with one year of additional full-time academic work. Students enrolled in the Falcon Fast-Track Program have the opportunity to pursue a variety of master's programs.

For more information, visit bentley.edu/fast-track.