COLLEGE OF BUSINESS
JAMES MADISON UNIVERSITY

Computer Information Systems

Bachelor of Business Administration (B.B.A.)

Prepared to Make the Difference.™

CONTACT INFORMATION

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CO-CURRICULAR ORGS

Association for Information Systems (AIS)
Beta Alpha Psi
Women in Technology
International Telecommunications Education Research Association (ITERA)

INTERNSHIP/JOB POSTINGS

Recruit-A-Duke
Internships.com

CERTIFICATIONS/TECH SKILLS

Project Management (pmi.org)
CISSP (cissp.com)
Security Plus
Improving the Profession of Software Development (scrum.org)

CAREER & ACADEMIC PLANNING

Student Success Center, 3rd floor
(540) 568-6555
Choosing/Changing Majors
Resource Center
Job Search/Graduate School
Career Counseling
On-Campus Interviewing
Practice Interviews
Recruit-A-Duke Questions
Employer Relations

What is a CIS major?

The Computer Information Systems major prepares students for careers in designing, developing, implementing, and managing information systems. The field of CIS, using the latest computer-based technology, centers on significant problems in organizing, representing, manipulating and presenting data, information, and knowledge.

Computer Information Systems professionals analyze business opportunities and problems, then design and build solutions using the power of information technologies. Students in the CIS program gain the business and technical skills that will prepare them to move quickly from technical to leadership roles within the organization. The CIS and BSAN faculty use a variety of teaching methods including lectures, cases, projects, and business simulations to prepare graduates with strong technical, analytical, and problem-solving skills; effective communication and presentation skills; hands-on experience; and the ability to work effectively in individual and team-oriented environments.

Students majoring in CIS will have the opportunity to study a variety of programming languages, Internet technologies, object-oriented concepts, database design, computer security, networking, telecommunications, and data analytics. The course work focuses on business applications and analysis. Students are offered the opportunity to gain practical technical experience through internships and co-op programs.

The CIS & BSAN department also offers minors in Computer Information Systems and in Business Analytics.

The CIS program is ABET accredited, and is ranked as a top-10 information systems program by Bloomberg Businessweek.

Career Possibilities

- Business Analyst
- Business Application Developer
- Business Intelligence Specialist
- Chief Information Officer
- Computer Forensics Specialist
- Customer Support Manager
- Database Analyst
- IT Auditor
- IT Consultant
- IT Risk Advisor
- Management Consultant
- Network Manager
- Project Manager
- Security Analyst
- Software Engineer
- Systems Analyst
- Systems Integration Consultant
- Technical Sales Manager
- Telecommunications Analyst
- Web Developer

Accredited ABET Computing Accreditation Commission

AACSB ACCREDITED

COLLEGE OF BUSINESS ACCEPTANCE REQUIREMENTS

The College of Business offers three degrees (B.A., B.B.A., and B.S.). B.B.A students planning to take upper-level business courses must first be accepted. B.A. and B.S. students have progression standards that must be completed. For more information on current requirements, contact the College of Business Academic Services Center in Suite 205 Zane Showker Hall or call (540) 568-2785.

All business majors must complete 60 non-business credit hours which include general education courses.

A minimum of 120 hours is required for graduation as well as an overall grade point average of 2.00 and a 2.00 within the major.

All graduates must earn at least 60 hours from a four year university.

MAJOR REQUIREMENTS

General Education	41 hrs
BBA lower level	30 hrs
BBA upper level	15 hrs
Non-Business electives	See Advisor
CIS Core Courses	28 hrs

COOPERATIVE EDUCATION CONCENTRATION

A co-op experience will substitute 12 major credit hours (6 required hours and 6 elective credits). More prerequisites and guidelines: see coordinator.

Academic Plan

Freshman & Sophomore

B.B.A. Lower-Level Core

COB 191.	Business and Economics Statistics
COB 202.	Interpersonal Skills
COB 204.	Computer Information Systems
COB 218.	Legal Environment of Business
COB 241.	Financial Accounting
COB 242.	Managerial Accounting
COB 291.	Introduction to Management Science
ECON 201.	Principles of Economics
GECON 200.	Macroeconomics
MATH 205 or 235.	Calculus

CIS Major Courses

CIS 221.	Principles of Programming

Notes:
COB 191 and MATH 205 are prerequisites for COB 291.
COB 241 is a prerequisite for COB 242.
MATH 220 may be substituted for COB 191.

Junior

First Semester

B.B.A. Upper-Level Core

COB 300A. Management
COB 300B. Finance
COB 300C. Operations
COB 300D. Marketing

CIS Major Courses

CIS 304. Enterprise Architecture

Second Semester

CIS 320. Computing & Telecom. Networks
CIS 301. Operating Systems & Server Administration
CIS 330. Database Design & Application

Notes:
COB 300A-D must be taken in the same semester

Senior

First Semester

CIS XXX*
CIS 331. Intermediate Computer Programing
CIS 454. Systems Analysis & Design

Second Semester

CIS XXX*
COB 487. Strategic Management
CIS 484. Information Systems Development & Implementation

Notes:
COB 487 is taken in the senior year
* Choose any two of the following:

CIS 366	CIS/BSAN 393
CIS 420	CIS 424
CIS 428	CIS 425
CIS 434	CIS 463
CIS 464	CIS 498

Career Plan

Freshman

- Explore majors
- Complete self assessments
- Adjust to campus life
- Build rapport with faculty
- Establish solid GPA
- Join a student organization
- Apply for summer job
- Consider study abroad programs
- Practice professional etiquette

Sophomore

- Identify skills & values
- Build resume & references
- Activate Recruit-A-Duke account
- Attend career related events
- Research employers
- Develop academic plan
- Apply for COB 300
- Gain career related experience
- Apply for externship
- Join AIS to create a network

Junior

- Apply for internship
- Brand online presence (Linkedin)
- Practice mock interviews
- Attend career/internship fairs
- Seek leadership roles
- Consider graduate school and test preparation
- Develop job search strategy

Senior

- Apply for full time employment
- Follow up on job leads
- Negotiate salary
- Use on-campus recruiting
- Connect with Alumni Relations