



## Contact Information:

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## Co-curricular Activities and Organizations:

**Association of  
Information Technology  
Professionals**

<http://cob.jmu.edu/aitp>

## WHAT IS A CIS MAJOR?

The computer information systems and management science program 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 and manipulating 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 with the organization. The CIS and MS faculty use a variety of teaching methods including lectures, cases, projects and business simulations to prepare graduates with strong technical, analytic, 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 mathematical modeling. 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.

## 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

## ONLINE RESOURCES

<http://www.jmu.edu/cob/cis/>

<http://oirsacs.jmu.edu/alumni/alumempl.asp>

[http://computingcareers.acm.org/?page\\_id=9](http://computingcareers.acm.org/?page_id=9)

[http://www.ourpublicservice.org/OPS/assets/documents/computerscience\\_IT9\\_08.pdf](http://www.ourpublicservice.org/OPS/assets/documents/computerscience_IT9_08.pdf)

<http://www.careercornerstone.org/infosys/infosys.htm>

## B.B.A. CORE COURSE CURRICULUM

### 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 MATH 235. Calculus

### B.B.A. Upper-Level Core

COB 300A. Integrated Functional Systems: Management  
 COB 300B. Integrated Functional Systems: Finance  
 COB 300C. Integrated Functional Systems: Operations  
 COB 300D. Integrated Functional Systems: Marketing  
 COB 487. Strategic Management

#### 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.  
 COB 300 A-D must be taken in the same semester.  
 COB 487 is taken in the senior year.

## MAJOR REQUIREMENTS for Computer Information Systems

General Education	41 hours
Non-Business Electives	12 hours
BBA Core Curriculum	45 hours
CIS Core Courses	28 hours

CIS 221. Principles of Programming  
 CIS 301. Operating Systems and Server Administration  
 CIS 304. Enterprise Architecture  
 CIS 320. Computing and Telecommunications Networks  
 CIS 330. Database Design and Application  
 CIS 331. Intermediate Computer Programming  
 CIS 454. Systems Analysis and Design  
 CIS 484. Information Systems Development and Implementation  
 CIS Elective<sub>1</sub>  
 CIS Elective<sub>1</sub>

Students may select one of the following courses to satisfy a CIS elective: CIS 354, CIS/MS 363, CIS/MS 364, CIS 366, CIS 383, CIS 411, CIS 434, CIS 420, CIS 424, CIS 463, CIS 464, CIS 466 or CIS 498.

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

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.

Concentration in Cooperative Education:

Students will be awarded 12 hours of academic credit that will substitute for two required courses in the CIS/MS curriculum and for six credits of special topics (CIS 498 or MS 498).

*Prerequisite: CIS majors with junior standing and a minimum 3.0 GPA.*



### College of Business Acceptance Requirements

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