

Information Systems and Operations Management
(Formerly Decision Sciences and Management Information Systems)

Description

Information Systems and Operations Management (ISOM) - formerly Decision Sciences and Management Information Systems (DMIS) - is a new curriculum designed to meet the market demand for graduates who can design and manage technology-driven business solutions. The BS in ISOM prepares students for a range of career options that intersect people, processes, and technology. The ISOM curriculum emphasizes business-relevant concepts of information technology (IT) combined with practical application through hands-on training. The program of study teaches students how to apply their knowledge of IT and business functions to design, improve, and manage operations and business processes. ISOM graduates work to define requirements, identify IT-driven business solutions, and assist in managing complex technology projects. Some majors manage database systems, networks and websites, while others work as consultants and project managers designing production and distribution facilities. If you are interested in forecasting economic and business activities, implementing information systems, and solving supply-chain management problems, ISOM may be for you.

Skills Needed

Analytical abilities	Oral communication	System evaluation
Computer programming	Problem solving	Systems analysis
Designing systems	Project planning	Technical writing
Management	Research and data investigation	Technology design
Mathematics	System development	

Sample Occupations

Visit the Bureau of Labor and Statistic's online Occupational Outlook Handbook:
<http://www.bls.gov> for more information.

- Applications Development Specialist
- [Computer Programmer](#)
- Computer Security Specialist
- [Computer Support Specialist](#)
- [Computer Systems Analyst](#)
- Computer Training Specialist
- [Database Administrator](#)
- Data Communications Analyst
- Data Processing Manager
- Data Security Specialist
- Forms Analyst
- [Graphic Designer](#)
- Help Desk Analyst
- Information Risk Management
- [Information Systems Manager](#)
- [Management Analyst/Consultant](#)
- Methods Analyst
- [Network Analyst](#)
- Operations Analyst
- Records and Information Analyst
- Reports Analyst
- [Systems Analyst](#)
- [Technical Trainer](#)
- [Technical Support Specialist](#)
- [Technical Writer](#)
- [Web Designer / Web Master](#)

Organizations That Have Employed Mason DMIS Graduates

*To view the on-line version of this information, please visit: <http://som.gmu.edu/OptionsKnowledge>
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Accenture, Alion Science and Technology, AmCad, Booz Allen Hamilton, CACI, Centre Consulting, CGI Federal, Defense Intelligence Agency, Deloitte, Department of Agriculture, EDS, Ernst & Young, Fannie Mae, Freddie Mac, General Accounting Office, General Dynamics Network Systems, KPMG, Nortel Government Solutions, Northrup Grumman, Raytheon Systems, SAIC, SRA International, Verizon and World Bank

Sample Professional Associations

- [American Society for Information Science and Technology](http://asis.org): <http://asis.org>
Focuses on improving theories, techniques and technologies to improve access to information. Offering industry information, access to publications, networking and training opportunities.
- [Association for Women in Computing](http://www.awc-hq.org): <http://www.awc-hq.org>
Dedicated to the advancement of women in technology fields. Providing networking opportunities, seminars, publications and job search assistance.
- [Association of Records Managers and Administrators](http://www.arma.org): <http://www.arma.org>
Provides education, networking and research to information professionals.
- [Society for Information Management](http://www.simnet.org): <http://www.simnet.org>
Provides networking opportunities, knowledge sharing, and advocacy for IT leadership.

Student Clubs

[International Management of Information Technology Society](#)

Visit <http://som.gmu.edu/studentorganizations> for a complete listing of SOM's student organizations.

Sample SOM Career Services Library Resources

- Ace the IT Resume
- Resumes that Knock 'em Dead
- eResumes: Everything you need to know about using electronic resumes.
- Get your IT Career in Gear
- Guide to Internet Job Searching
- Best 109 Internships
- Big Book of Jobs (03-04)
- Networking Survival Guide
- WetFeet Insider Guide to Careers in Information Technologies