

# Oakland University

## School of Business Administration

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### Department of Decision and Information Sciences

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### MANAGEMENT INFORMATION SYSTEMS

Management Information Systems (MIS) is concerned with using computers and computer readable information to support decisions across business functional areas such as accounting, finance, marketing, human resources, and operations management. In addition to computer technology, MIS considers how managers and knowledge workers actually use information and how systems specialists and end users interact during the analysis, design, implementation, and on-going use of information systems. MIS experts attempt to bridge the gap between information technology and people's needs. A related field is Computer Science. The two majors differ in that Computer Science emphasizes the technical side of hardware and software, whereas, MIS emphasizes applications and the business context in which an information systems exists. For more information you can check our web site at <http://www.sba.oakland.edu/dis>.

### Skill and Abilities

MIS is a multi-faceted field that rewards people with a variety of skills including the following:

**Analytical skills** – the ability to analyze and model complex business situations

**Problem-solving skills** – the ability to arrive at creative solutions to problems under a variety of constraints

**Communication skills** – both oral and written communication

**Interpersonal skills** – the ability to interact productively with a variety of people

**Management skills** – the ability to manage complex projects and resources

**Perseverance** – the ability to work resolutely on difficult problems

**Logical thinking**

### MIS Faculty

Faculty members in MIS:

- Xiaodong Deng
- Mark Isken
- Thomas Lauer
- Paul Licker
- Kieran Mathieson
- Balaji Rajagopalan
- Sri Sharma
- Vijayan Sugumaran

## Major Requirements for the B.S. in MIS

MIS200:	Personal Productivity with Information Technology
MIS300:	Management Information Systems
CSE/CIT130:	Introduction to Computer Programming
or CSE/CIT141:	Computer Problem Solving in Engineering & Computer Science
MIS304:	Database Management
MIS316:	System Analysis

**Electives: choose three, at least one of which must be:**

**MIS405 or MIS407 or MIS416 or MIS426**

MIS400	Analysis of Complex Systems
MIS405	Business Data/Telecommunications
MIS407	Projects and Problem Solving
MIS416	Advanced Systems Analysis and Design
MIS418	Network Management
MIS420	Electronic Commerce
MIS421	Advanced Business Applications
MIS422	Business Object Development
MIS424	Business Application Architecture
MIS426	GUI Application Development
MIS428	Web Application Development
MIS436	Decision Support Systems
MIS442	IS Issues in Supply Chain Management
MIS444	Simulation in Management
MIS446	Business Analysis and Modeling
MIS480	Advanced Topics in MIS
POM448	Project Management Techniques
CSE/CIT220	Computer-based Information Systems I (COBOL)

## What Career Opportunities Exist for MIS?

At present, career opportunities for MIS graduates are outstanding with the prospect that this will continue into the future. The Association for Computing Machinery (ACM) states, "...the interest in information systems solutions to business problems is growing at a rapid rate, well exceeding the capabilities...to satisfy these demands. In addition to the increase in the total number of systems in use, an increase in average complexity compounds this problem." Recent forecasts by the Department of Labor project that the position of systems analyst will experience more job growth than any other. Many starting positions are possible for the MIS graduate including: programmer, systems analyst, user support group, business analyst, and web master. MIS positions reflect the continuing evolution in information technology with new job titles frequently appearing. At Oakland, we are continually updating our programs to keep up with changing technology. This is reflected in our course offerings and other opportunities available to students including internships.

## For Further Information

Choosing areas of emphasis within your major and fitting your major into your life and career goals are issues you can discuss with faculty members in your major area. Planning your schedule and monitoring your progress in your business program are tasks with which academic advisers are prepared to assist you. Plan to consult with Management Information Systems faculty members and your advisers regularly.

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Career Services  
275 Vandenberg Hall  
248-370-3250