

Management Information Systems Concentration (24 units)

The Management Information Systems concentration provides the analytical framework and the methodology to analyze, design, implement, and manage complex computer-based information/decision systems. Information is recognized as a resource of the organization and is the common link binding the elements of the organization together. As organizations grow in size and complexity, the need for better and more timely information and for improved decision making techniques becomes critical for effective management.

REQUIRED COURSES:

- MIS 15Introduction to Business Programming (*MIS 1A, B, C or equivalents*)
- MIS 120Advanced Object-Oriented Programming for Business (*MIS 15*)
- MIS 140Business Telecommunications (*MIS 15*)
- MIS 150Database Systems for Business (*MIS 120, MIS 175*)
- MIS 160Systems Development Life Cycle I (*MIS 120, MIS 175, OBE 130*)
- MIS 161Systems Development Life Cycle II (*MIS 140, MIS 150, MIS 160*)

ELECTIVE COURSES:

Select **two** courses from the following (at least one must be from Group A):

Group A Electives

- MIS 105COBOL Programming (*MIS 15 or CSC 15*)
- MIS 122Object Oriented Programming for Business Java (*MIS 15 or CSC 15*)
- MIS 124Web Programming for Business Application in Visual Basic (*MIS 120*)
- MIS 155Fourth Generation Language Applications (*MIS 150*)

Group B Electives

- CSC 120Setting up and Maintaining a Web Server (*CSC 80 or Instructor permission*)
- CSC 121Using Scripts on the Web (*CSC 80 or Instructor permission*)
- CSC 122Web Database Systems (*CSC 120 or Instructor permission*)
- CSC 123Server Side Web Programming (*CSC 22 or equivalent experience with Visual Basic or Visual Basic for applications (VBA); CSC 80 or equivalent HTML skills*)
- GEOG 109Geographic Information Systems
- MIS 132Management Science Techniques (*MIS 131*)
- MIS 180Advanced Management Support Systems (*MIS 150*)
- MIS 182Topics in MIS (*MIS 150, 160*)
- MIS 194*Cooperative Education Experience in MIS (*MIS 160, minimum overall CSUS GPA of 2.75*)

* Only 3 units of a 12-unit MIS 194 may count as an elective.

Career Opportunities

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| Business Applications Programmer | Operations Manager |
| Communications Analyst | Programmer/Analyst |
| Data Base Specialist | Research Analyst |
| End-user Consultant | Software Specialist |
| Information Systems Manager | Systems Analyst |
| Information Systems Specialist | Technical Writer |
| Management Systems Consultant | |
| Operations Analyst | |

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