

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. *(Prerequisite courses are noted in parentheses.)*

REQUIRED COURSES:

- MIS 15Introduction to Business Programming *(MIS 1, 2, 3 or equivalents)*
- MIS 120Advanced Object-Oriented Programming for Business *(MIS 15)*
- MIS 140Business Telecommunications *(MIS 15)*
- MIS 150Database Systems for Business *(MIS 101, MIS 120)*
- MIS 160Systems Development Life Cycle I *(MIS 101, MIS 120, MGMT 102)*
- 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 170IT Auditing, Security and Architecture *(MIS 140 and MIS 150)*
- MIS 171Enterprise Resource Planning Systems *(MIS 101)*

Group B Electives

- GEOG 109Geographic Information Systems
- MIS 122Object-Oriented Programming for Business in Java *(MIS 15 or CSC 15)*
- MIS 124Web Programming for Business Applications in Visual Basic *(MIS 120)*
- MIS 132Management Science Techniques *(DS 101)*
- MIS 181Machine Learning Applications in Business *(DS 101 and MIS 150 or MIS 151)*
- MIS 182Topics in MIS *(MIS 150, MIS 160)*
- MIS 183Business Intelligence Applications *(MIS 150 or MIS 151)*
- MIS 194*Cooperative Education Experience in MIS *(MIS 160, minimum Sac State overall GPA of 2.75)*

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

Career Opportunities

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

Academic Advising for Business Majors

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