

## 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 15 .....Introduction to Business Programming *(MIS 1, 2, 3 or equivalents)*
- MIS 120 .....Advanced Object-Oriented Programming for Business *(MIS 15)*
- MIS 140 .....Business Telecommunications *(MIS 15)*
- MIS 150 .....Database Systems for Business *(MIS 101, MIS 120)*
- MIS 160 .....Systems Development Life Cycle I *(MIS 101, MIS 120, MGMT 102)*
- MIS 161 .....Systems 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 105 .....COBOL Programming *(MIS 15 or CSC 15)*
- MIS 122 .....Object Oriented Programming for Business Java *(MIS 15 or CSC 15)*
- MIS 124 .....Web Programming for Business Applications in Visual Basic *(MIS 120)*
- MIS 155 .....Fourth Generation Language Applications *(MIS 150)*

#### Group B Electives

- CSC 120 .....Web Server Administration *(CSC 80 or Instructor permission)*
- CSC 121 .....Using Scripts on the Web *(CSC 80 or Instructor permission)*
- CSC 122 .....Web Database Systems *(CSC 10, CSC 22, CSC 80 or equivalent)*
- CSC 123 .....Web Application Development *(CSC 22, CSC 121, CSC 122, or equivalent experience)*
- GEOG 109.....Geographic Information Systems
- MIS 132 .....Management Science Techniques *(DS 101)*
- MIS 180 .....Advanced Management Support Systems *(MIS 150)*
- MIS 182 .....Topics in MIS *(MIS 150, 160)*
- MIS 194\* .....Cooperative Education Experience in MIS *(MIS 160, minimum overall Sac State 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

Undergraduate Business Advising Center  
Tahoe Hall 1030  
College of Business Administration  
6000 J Street • Sacramento, CA 95819-6088

(916) 278-BIZZ (2499)  
[cba-ugrad@csus.edu](mailto:cba-ugrad@csus.edu)  
[www.cba.csus.edu/ubac](http://www.cba.csus.edu/ubac)