Management Information Systems

In the College of Business Administration

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A Member of AACSB International—The Association to Advance Collegiate Schools of Business.

Faculty
Emeritus: Beatty, Easter, G., Feeney, Flatley, Hatch, Lackritz, Langenbach, Lyons-Lawrence, Norman, Sherrard, Spaulding, Vik
Chair: Easton, A.
Professors: Briggs, Jennex, Koster, Penrose, Raafat, Reining, Shin, Yang
Associate Professors: Addo, Easter, A., Plice
Assistant Professor: Wang
Lecturers: Judge, O’Byrne, Probett, Shaul, Tyler

Offered by the Department
Master of Business Administration.
Master of Science degree in business administration.
Master of Science degree in information systems.
Major in information systems with the B.S. degree in business administration.
Major in general business with the B.S. degree in business administration. See Business Administration.
Minor in information systems.

The Major
Good business decisions require good information. The purpose of an information system is to provide management with the information that is essential to decision making and to assist in interpreting that information.

Information Systems. Students interested in using computers to solve business problems and in devising new and more efficient solutions should consider a major in information systems. The major is intended to prepare students for their first job in information systems, which is normally as a systems analyst. The systems analyst studies problems, designs solutions, and implements those solutions using computer hardware and software. The major will also prepare students for continued growth as a manager in information systems.

The employment outlook for information systems specialists is currently very good. Positive projections continue into the future. Many graduates who major in information systems assume the following positions: systems analysts plan the activities necessary to solve a business problem by structuring the problem in logical form, identifying the data needed, and specifying the procedures to be followed in programming the data processing; information systems specialists represent various departments of a business in assuring that each department’s information processing needs are provided for effectively and efficiently; programmers and analysts plan and write computer programs to process business information; computer center managers direct the work of information processing in a company; and technical marketing specialists sell and coordinate the installation of computer systems.

Typical places of employment for information systems graduates include large businesses, government agencies, computer manufacturers, universities, and independent computer service organizations.

Business Honors Program
The Business Honors Program offers excellent upper division business students the opportunity to explore issues in our local, regional, and global business environments focusing on the social and ethical responsibility that business has to the community and society. Honors students will enroll in one unit business honors seminar each semester. During their enrollment they will participate in activities to promote their academic and personal growth, documenting their work in a written portfolio.

Generally, students should apply to this program at the time of application to upper division business. Applicants must submit an essay with their application. Applicants must have a 3.6 cumulative GPA or good standing in the Weber Honors College. Students not meeting these requirements may petition for admission to the program. Successful completion of the Business Honors Program will be recognized at graduation. Contact Dr. Robert A. Judge, Department of Management Information Systems, for more information about this program.

Statement on Computers
Before enrolling in upper division courses in the College of Business Administration, students must be competent in the operation of personal computers, including word processing and spreadsheets. Business students are strongly encouraged to have their own computers capable of running word processing, spreadsheet, presentation, e-mail, and Internet applications such as those found in packages sold by major software publishers. Availability of on-campus computing resources can be limited due to increasing demand across the University.

Retention Policy
The College of Business Administration expects that all business students will make reasonable academic progress towards the degree. Business premajors who have completed major preparatory courses, earned 60 units, but have less than a 2.9 may be removed from the premajors and placed in undeclared. Upper division business majors earning less than a 2.0 average in their major GPA for two consecutive semesters may be removed from business and placed in undeclared.

Business Passport
All majors in the College of Business Administration will be introduced to the Business Passport in Business Administration 310, and complete the Business Passport in the capstone course (Business Administration 404, 405, or 458). Contact the Business Advising Center (EBA-448), 619-594-5828, for more information.

Transfer Credit
Lower Division: Courses clearly equivalent in scope and content to San Diego State University courses required for minors or as preparation for all business majors will be accepted from accredited United States institutions and from foreign institutions recognized by San Diego State University and the College of Business Administration.

Upper Division: It is the policy of the San Diego State University College of Business Administration to accept upper division transfer credits where (a) the course content, requirements, and level are equivalent to San Diego State University courses and (b) where the course was taught in an AACSB International—The Association to Advance Collegiate Schools of Business—accredited program. Exceptions require thorough documentation evidencing the above standards.

Impacted Program
The information systems major is impacted. Before enrolling in any upper division courses in business administration, students must advance to an upper division business major and obtain a business major code. To be admitted to an upper division business major (accounting, finance, financial services, real estate, information systems, management, or marketing), students must meet the following criteria:

a. Complete with a grade of C or higher: Accountancy 201, 202; Economics 101, 102; Finance 240 (or an approved business law course); Management Information Systems 180; Mathematics 120 (or an approved calculus course or an approved three-unit finite mathematics course); Rhetoric and Writing Studies 290 (RWS 290 is not required for the accounting major); and either Statistics 119 or Economics 201. These courses cannot be taken for credit/no credit (Cr/NC);

b. Complete a minimum of 60 transferable semester units;

c. Have a cumulative GPA of 2.9.
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Students who meet all requirements except the GPA may request to be placed on the waiting list. While all spaces are usually filled by eligible students, if there is room in the program after all the fully-qualified students have been accommodated, students will be admitted from the waiting list in GPA order. Contact the Business Advising Center (EBA-448), 619-594-5628, for more information.

To complete the major, students must fulfill the degree requirements for the major described in the catalog in effect at the time they are accepted into the premajor at SDSU (assuming continuous enrollment).

Major Academic Plans (MAPs)
Visit http://www.sdsu.edu/mymap for the recommended courses needed to fulfill your major requirements. The MAPs website was created to help students navigate the course requirements for their majors and to identify which General Education courses will also fulfill a major preparation course requirement.

Information Systems Major
With the B.S. Degree in Business Administration (Major Code: 07021) (SIMS Code: 222336) A minor is not required with this major.

Preparation for the Major: Complete with a grade of C or higher: Management Information Systems 180; Accountancy 201, 202; Economics 101, 102; Finance 240 (or an approved business law course); Mathematics 120 (or an approved calculus course or an approved three-unit finite mathematics course); Rhetoric and Writing Studies 290, and either Statistics 119 or Economics 201. (27 units)

These prerequisite courses may not be taken C/NC; the minimum grade in each class is C. Additional progress requirements must be met before a student is admitted to an upper division major.

Graduation Writing Assessment Requirement. Students must have fulfilled the Writing Placement Assessment with a score of 8 or above before taking Management Information Systems 396W and earn a grade of C (2.0) or better. See “Graduation Requirements” section for a complete listing of requirements.

Major. Forty-four upper division units consisting of Management Information Systems 306, 315, 380, 396W, 406, 483, 492; Business Administration 300, 310, 393, 390, 360, 370; Business Administration 404, 405, or 458 (three units); six units selected from Management Information Systems 301, 305, 375, 460, 481, 482, 515, 520. A “C” (2.0) average or better is required in the courses stipulated here for the major.

Students must complete all upper division courses in the major within seven years prior to graduation. Students who will have completed any of those courses more than seven years before the projected date of graduation must contact the department chair for information about ways to certify knowledge of current course content.

Information Systems Minor
(SIMS Code: 222337)
The minor in information systems consists of a minimum of 18 units to include Management Information Systems 180 and 15 units selected from Management Information Systems 305, 306, 315, 375, 380, 406, 481, 482, 483, 492, 515, 520.

Courses in the minor may not be counted toward the major, but may be used to satisfy preparation for the major and general education requirements, if applicable. A minimum of six upper division units must be completed in residence at San Diego State University. Students with a major in the College of Business Administration, Hospitality and Tourism Management, or International Business should choose courses carefully with an advisor in their major department and the Business Advising Center (EBA-448).

Students must meet the prerequisites for the minor in effect at the time that they declare the minor. Contact the Business Advising Center (EBA-448) for admissions criteria and procedures.

Courses (MIS)
Refer to Courses and Curricula and University Policies sections of this catalog for explanation of the course numbering system, unit or credit hour, prerequisites, and related information.

LOWER DIVISION COURSES


MIS 299. Special Study (3) Prerequisites: Consent of department chair and instructor. Individual study.

UPPER DIVISION COURSES
(Intended for Undergraduates)

MIS 301. Statistical Analysis for Business (3) Prerequisites: Management Information Systems 180; Mathematics 120; Statistics 119 or Economics 201. Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisites required: Copy of transcript. Statistical methods applied to business decision making. (Formerly numbered Information and Decision Systems 301.)

MIS 305. Business Processes, ERP, and Analytics (3) Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisites required: Copy of transcript. Fundamentals of business process planning (ERP) systems. Utilizing an ERP to run a business. How analytics are used by organizations to improve decision making.

MIS 306. Information Systems Analysis (3) Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisites required: Copy of transcript. Systems development life cycle concept, with emphasis on analysis of requirements using structured methodology. Feasibility study, needs assessment, prototyping, application design alternatives. (Formerly numbered Information and Decision Systems 306.)

MIS 315. Business Applications Programming (3) Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisites required: Copy of transcript. Computer programming for business applications. Appropriate data structures, control structures and program structures. Languages widely used in business applications. (Formerly numbered Information and Decision Systems 315.)

MIS 375. Information Systems Technology (3) Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. Proof of completion of prerequisites required: Copy of transcript. Technologies underlying information systems, including computer organization and components, computer arithmetic, I/O and storage, multimedia processing, data communications fundamentals, local area networks, internetworking, and workflow computing. (Formerly numbered Information and Decision Systems 375.)
MIS 380. Data Management Systems (3)
Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required:** Copy of transcript.

METHODOLOGY: Utilization of online data collection and database management systems for organizational decision-making; development of information systems to support decision-making processes. Emphasis on application of data management systems across organizational contexts. **Prerequisites:** Management Information Systems 180, 306, 315, 380.

MIS 399. Special Study (1-3)
Prerequisite: Consent of instructor. Individual study. Maximum credit six units.

UPPER DIVISION COURSES
(Also Acceptable for Advanced Degrees)

MIS 483. Networks and Data Communications (3)
Prerequisites: Management Information Systems 180. Approved upper division business major, business minor, or another major approved by the College of Business Administration. **Proof of completion of prerequisites required:** Copy of transcript.

MIS 492. Management of Information Systems (3)
Prerequisites: Management Information Systems 306 and 380. **Proof of completion of prerequisites required:** Copy of transcript. Role of information systems in organizations from management perspective: strategic information system planning, systems administration, and management of end user computing. Management issues related to systems development and implementation. Management of computer operations and the computer center. (Formerly numbered Information and Decision Systems 483.)

MIS 496. Selected Topics in Information Systems (1-4)
Prerequisite: Consent of department chair. Selected areas of concern in information systems. See Class Schedule for specific content. May be repeated with new content. Maximum credit six units.

MIS 498. Investigation and Report (1-3)
Prerequisite: Senior standing and consent of instructor. A comprehensive and original study of a problem connected with information systems under the direction of one or more members of the information systems staff. May be repeated with new content. Maximum credit six units. (Formerly numbered Information and Decision Systems 498.)

MIS 499. Special Study (1-3)
Prerequisite: Consent of instructor. Individual study. Maximum credit six units.

MIS 515. Intermediate Programming for Business Applications (3)
Prerequisite: Management Information Systems 315 or knowledge of one computer programming language. **Proof of completion of prerequisite required:** Copy of transcript. Intermediate programming for business applications with Java, C#, or similar languages. Data structures, control structures, and program structures. Use of object-oriented features, classes, subclasses, and inheritance for modeling and processing of business information. (Formerly numbered Information and Decision Systems 515.)

MIS 520. Advanced Programming for Business Applications (3)
Prerequisite: Management Information Systems 515. **Proof of completion of prerequisite required:** Copy of transcript. Advanced object-oriented features using Java (abstract classes, polymorphism, interfaces, generic classes) for business application programs using graphical user interfaces. Use of multithreading for business simulation. Enhancement of business applications with multimedia and database connectivity. (Formerly numbered Information and Decision Systems 520.)

GRADUATE COURSES
Refer to the Graduate Bulletin.