

Information Systems and Decision Sciences

The Field

Information Systems and Decision Sciences focuses on the development of computer applications and systems, the quantitative analysis of business data, and the newly developed and rapidly growing areas of the management of information resources and end-user computing.

The Department of Information Systems and Decision Sciences

The Department of Information Systems and Decision Sciences prepares students to assist management in the utilization of computer technology to solve business problems. Graduates use data communication channels to integrate diverse hardware and decision support software into effective, technologically sound management information systems.

The department's full-time faculty members have extensive expertise in systems analysis and design, computer language programming, statistics, business and data communications, networking, geographic information systems, and database systems. The faculty members come from all over the world and have doctorates from major American and foreign universities.

Modern computer laboratories offer students an opportunity to become acquainted with new developments in computer technology and applications. In addition to traditional experiences of classroom instruction, and guest speakers, students have access to specialized and generalized computer laboratories including anytime-anywhere remote access.

Option

Computer Information Systems offers an introduction to the vast area of computer technology and provides students with the knowledge and skills needed to identify, analyze, and understand managerial problems, design solutions to these problems utilizing the computer, and implement the technology within an organization. Included are courses in systems analysis and design, data communication, end-user computing, web-page design, database systems, and programming.

Certificates

The **Certificate in Business Information Systems** enhances the knowledge of candidates with nonbusiness bachelor degrees for entry-level data processing related positions.

Students earning the **Certificate in Network Administration** must have a background in CIS and a strong interest in computer network environment. They must be eligible to enroll

in the Craig School of Business Internship Program.

These certificates are not available to students currently enrolled in the CIS option. Please consult the university's *General Catalog* for additional admission requirements for the certificates.

Career Opportunities

Business administration graduates with an option in information systems are in high demand and find entry-level positions as programmers, systems analysts, website designers, information center support personnel, database administrators, network specialists, or management information consultants. With the advent of the microcomputer and the variety of computer software available, students are successful in securing high paying positions in business, government, or other profit or nonprofit institutions.

Future Education

The classwork, the prerequisites, and the depth of study offered in the department are geared toward advanced-level education as well as undergraduate education. An M.B.A. is offered with an emphasis in the area of Management Information Systems. Many graduates have gone on to pursue doctorates.

General Preparation

Students should have a good background in applied mathematics, including intermediate algebra and oral and written

**California State
University, Fresno**

**Department of
Information
Systems and
Decision Sciences**

559.278.2823

www.fresnostate.edu/craig

**B.S. in Business
Administration**

Option:

- **Computer
Information Systems**

Certificates in:

- **Business
Information Systems**
- **Network
Administration**

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Information Systems and Decision Sciences

communication, to successfully complete these programs. Students who do well in these career fields have a wealth of curiosity and a love for problem-solving. They enjoy the challenges and rewards associated with helping others solve their problems.

High School Preparation

Students should meet California State University's admission requirements in terms of college preparatory course requirements, grade point average, and test scores.

College Program

Students should consult the university's *General Catalog* for specific major and university requirements. Community college transfers should consult the catalog to ensure that baccalaureate level courses are CSU transferrable.

General Education

Students should complete as many of the Fresno State General Education requirements as possible during the freshman and sophomore years, whether they are attending Fresno State or a community college. Community colleges can certify up to 39 of the units required in Fresno State's General Education pattern.

Suggested Related Activities

Students are also encouraged to participate in the summer study abroad program. For details, contact International Programs in PB 189, 559.278.4653

Course Requirements

Since changes may occur, students should consult the university's *General Catalog* and a Fresno State adviser prior to registering for courses.

Lower Division

Freshman-Sophomore level courses
(may be taken at a community college)

Financial and Managerial Accounting Principles and Systems (ACCT 4A-B)

Business and the Legal Environment (BA 18)
or appropriate 4 unit courses only

Quantitative Analysis (DS 71)

Statistical Analysis I (DS 73)

Principles of Microeconomics (ECON 40) or
Introductory Agricultural Economics
(AGBS 1)

Principles of Macroeconomics (ECON 50)

Computer Competency Exam or IS 52 and 52L

Note: The Craig School of Business requires students to earn a grade of C or better for each course used to satisfy the requirements for the major and to have a cumulative GPA of 2.25 *before declaring their option*. In addition, international (foreign) students must have a TOEFL score of at least 500.

Upper Division

Junior-Senior level courses
(to be taken in the Craig School of Business)

Statistical Analysis II (DS 123)

Principles of Finance (FIN 120)

Management Information Systems (IS 130)

Production/Operations Management
(MGT 124)

Administration and Organizational Behavior
(MGT 110)

Marketing Concepts (MKTG 100S)

Business Communication (BA 105W)

Option — Computer Information Systems

Programming Fundamentals (IS 51)

Database Systems (IS 158)

Information Systems Analysis and Design
(IS 166)

Computer Networks Management
(IS 181)

Project Management (IS 186)

IS Practicum (IS 187)

*9 units of approved Computer Information
Systems Electives*

(Three approved courses)

Certificate in

Business Information Systems

Database Systems (IS 158)

Information Systems Analysis and Design
(IS 166)

Computer Networks Management (IS 181)

Two courses from Information Systems list
(See Department of Information Systems and
Decision Sciences, *General Catalog*)

Certificate in Network Administration

Data Communications (IS 162)

Computer Networks Management (IS 181)

Advanced Network Design and Management
(IS 182)

Two courses from Information Systems list
(See Department of Information Systems and
Decision Sciences, *General Catalog*)

**For additional
information, write**

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Department of
Information Systems
and Decision Sciences**

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Visit or call

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[www.fresnostate.edu/craig/
depts-programs/isds](http://www.fresnostate.edu/craig/depts-programs/isds)

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PLEASE NOTE: This document is for general informational purposes only. The information is subject to change; consult the appropriate department or an academic adviser. Entering freshmen must follow the revised General Education program effective fall 1999 and thereafter. The university catalog and schedule of courses are available online at www.fresnostate.edu/ClassSchedule and www.fresnostate.edu/catalog.

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