INFORMATION SYSTEMS

College of Business
Interim Dean: Dr. Yim-Yu Wong

Department of Information Systems
BUS 310
Phone: (415) 338-2138
Email: is@sfsu.edu
Chair: Dr. Luftus Sayeed
Undergraduate Advisors: Beckman, Chao, Jin, Mak, Shahrasbi, Verma

Professor
DAVID D. CHAO (1990), Professor of Information Systems; B.S. (1976), National Taiwan University; M.S. (1982), University of Georgia; Ph.D. (1990), University of Washington.

Associate Professor
LEIGH JIN (2001), Associate Professor of Information Systems; B.S. (1993), Beijing University of Aeronautics and Astronautics; Ph.D. (2001), Georgia State University.
LIK MUI (2003), Associate Professor of Information Systems; B.S. (1995), Massachusetts Institute of Technology; M.Phil. (1997), Oxford University; Ph.D. (2003), Massachusetts Institute of Technology.

Assistant Professor
TAI-YIN CHI (2018), Assistant Professor of Information Systems; B.B.A. (1996), Feng Chia University; M.B.A. (2002), California State University, San Bernardino; Ph.D. (2016), Claremont Graduate University.
MATTHEW LEVY (2013), Assistant Professor of Information Systems; B.B.A. (1999), Texas Tech University; M.B.A. (2007), San Diego State University; Ph.D. (2013), Louisiana State University.

Major
• Bachelor of Science in Business Administration: Concentration in Information Systems (bulletin.sfsu.edu/colleges/business/information-systems/minor-information-systems)

Minor
• Minor in Information Systems (bulletin.sfsu.edu/colleges/business/information-systems/minor-information-systems)

Certificate
• Certificate in Information Technology Auditing (bulletin.sfsu.edu/colleges/business/information-systems/certificate-information-technology-auditing)

ISYS 198 Information Systems Spreadsheet Make-Up (Unit: 1)
Prerequisite: Consent of instructor.

ISYS 263 Introduction to Information Systems (Units: 3)
Prerequisite: GE Area B4* or DS 212*.

ISYS 339 Information Technology for International Hospitality and Tourism (Units: 3)
Prerequisite: GE Areas A1, A2, A3, B4, and E.

Course Attributes:
• UD-D: Social Sciences
• Global Perspectives

ISYS 350 Building Business Applications (Units: 3)
Prerequisite: ISYS 263 with a grade of C- or better.

Development of a multi-tier e-business application using high level tools. Design and implement a business rule tier, presentation tier, and data access tier in order to rapidly deliver innovative and extensible business solutions. Mini-projects culminate into a complete solution for an e-business application.

ISYS 363 Information Systems for Management (Units: 3)
Prerequisites: ISYS 263* and ACCT 100* with grades of C- or better.

Information systems for management decision-making. Information system development from the end-user’s perspective. Applications software used to develop solutions to business problems.

ISYS 412 Application Development for Data Analytics (Units: 3)
Prerequisites: Restricted to upper-division standing; ISYS 350* and ISYS 363* with grades of C- or better.

Development of business applications with an emphasis for data analytics. Application development tools and analytics libraries. Selection of tools and libraries will vary based on instructor preference.
ISYS 475 Building Web Applications with Open Source Software (Units: 3)
Prerequisites: ISYS 363 and ISYS 350 with grades of C- or better.

Concepts, techniques, and tools to develop Internet-oriented business application systems with emphasis on the web.

ISYS 512 Business Application Design and Development with .NET (Units: 3)
Prerequisites: ISYS 350 and ISYS 363 with grades of C- or better.

Theory and practice of distributed business application design and development. Architecture and components of a business application system, how to design and develop a business application, and how to develop the web-based components of a business application. (Plus-minus letter grade only)

ISYS 556 Building Mobile Business Applications (Units: 3)
Prerequisites: Restricted to upper-division standing; ISYS 350 or one semester of programming with a grade of C- or better.

Design and develop applications for mobile devices including tablet computers and smartphones. Building successful business applications for mobile devices that interfaces with the backend system. [Formerly ISYS 573 - Topic: Building Mobile Business Applications]

ISYS 557 Managing Open Source (Units: 3)
Prerequisites: Restricted to senior standing; ISYS 363.

Detailed study of the management of open source software and related processes: open source management issues, integration of open and proprietary software, licensing, copyright and intellectual property rights. Also examines open source business models in the enterprise. [Formerly ISYS 573 - Topic: Managing Open Source]

ISYS 565 Managing Enterprise Networks (Units: 3)
Prerequisite: ISYS 363 with a grade of C- or better.

Hardware and software for communications and their application to the distributed data processing environment. Terminal-to-host communication, local and wide area networks, transaction processing monitors.

ISYS 567 Information Systems Internship (Units: 3)
Prerequisites: ISYS 363; completed an application form; a minimum GPA of 3.0 in ISYS courses; consent of instructor.

Provides Information Systems majors the opportunity to participate in a field experience in their chosen concentration. Major report required.
ISYS 850 Seminar in Business Intelligence (Units: 3)
Prerequisites: Restricted to Graduate Business students; BUS 782. Graduate students in other programs admitted with the consent of the Faculty Director of Graduate Programs.

Tools and techniques for extracting business intelligence from data to support strategic decision making. Applications of business intelligence and analytics methodologies in different functional areas. Managerial implications. (Plus-minus letter grade only)

ISYS 856 Enterprise Mobile Applications (Units: 3)
Prerequisites: Restricted to Graduate Business students; BUS 782. Graduate students in other programs admitted with the consent of the Faculty Director of Graduate Programs.

Focus on mobile enterprise technologies in the workplace that enable new business models to connect customers and enterprises; Design Thinking methodology to facilitate the creative design of enterprise mobile strategy and solutions; employment of Enterprise Resource Planning (ERP) mobile development platform to help prototype and develop innovative mobile solutions. Activity. (Plus-minus letter grade only)

ISYS 864 Data Management for Analytics (Units: 3)
Prerequisites: Restricted to graduate business students; ISYS 363 or ISYS 812 or equivalent; graduate students in other programs permitted with the consent of the Faculty Director of Graduate Programs.

Fundamentals of database management in the context of business analytics processing with an introduction to the principles, design, security, and use of database management systems in business with an emphasis on Big Data Management. (Plus-minus letter grade only)

ISYS 865 Managing Enterprise Networks (Units: 3)
Prerequisite: BUS 782.

Selection and management of distributed data processing systems and concurrent communication networks. Distributed databases, computer system network applications, communication systems and protocols, transaction processing monitors. Distributed vs. centralized data processing cost/benefit analysis.

ISYS 869 Business Process Management (Units: 3)
Prerequisites: Restricted to Graduate Business students; BUS 782. Graduate students in other programs admitted with the consent of the Faculty Director of Graduate Programs.

Design of business processes and their implementation through change management. Modeling and analysis of business processes. (Re)design and implementation of systems that enable them. Business modeling languages and techniques. (Plus-minus letter grade only)

ISYS 871 Electronic Commerce (Units: 3)
Prerequisites: Restricted to Graduate Business students; BUS 782. Graduate students in other programs admitted with the consent of the Faculty Director of Graduate Programs.


ISYS 895 Research Project in Information Systems (Units: 3)
Prerequisites: ISYS 814 and three 800-level required courses in student’s emphasis. Open only to computer information systems and electronic commerce MSBA candidates; consent of instructor and approval of Advancement to Candidacy (ATC) and Culminating Experience (CE) forms by Graduate Studies.

Research methodology and supervised research culminating in oral and written presentations. Advancement to Candidacy and Proposal for Culminating Experience Requirement forms must be approved by Graduate Studies before registration. (Plus-minus letter grade; no CR/NC allowed; RP)

ISYS 899 Independent Study (Units: 1-3)
Prerequisites: Restricted to graduate business students; consent of the instructor, adviser, and department chair; open only to graduate students who demonstrate the ability to work independently.

Intensive study of a particular problem under the direction of an Information Systems faculty member. (Plus-minus letter grade only)