INFORMATION SYSTEMS AND ANALYTICS

Information Systems and Analytics (ISA) is an interdisciplinary department that considers how technology can facilitate business decisions to guide organizations to success.

Our curriculum focuses on the intersection of areas like big data and business intelligence that combines theory and strategy with hands-on experience. As an undergraduate major in Management Information Systems or Accounting & Information Systems (both are STEM-designated), you'll have the chance to design applications in the lab and then put your learning into practice through credit bearing internships. You will take courses that combine theoretical concepts with applications to real-life problems, and participate in labs and projects that will allow you and your peers to work as a group to develop software programs and business applications.
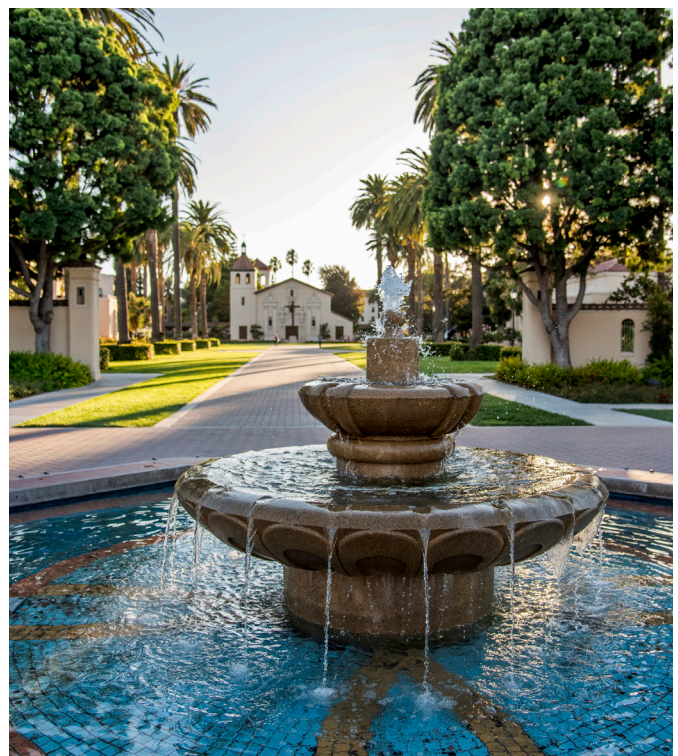
NATIONALLY RANKED

The Leavey School of Business ISA program is consistently ranked among the top in the nation. For 2023, U.S. News and World Report ranked the Business Analytics program #7 nationally in their Best School Specialty Rankings. The Management Information Systems (MIS) program was ranked #23.

CAREERS FOR INFORMATION SYSTEMS & ANALYTICS

Students experience a diverse range of internships, such as risk and financial advisory, data science, assurance and audit analysts, supply chain and operational management. Graduates of the department have pursued a variety of careers after graduation, including management consulting, operations management, technical sales and marketing, and roles as business analysts in public, private, service and non-profit sectors. Some will even continue on to various master's degrees or doctoral programs.

FACULTY RESEARCH

ISA faculty conducts research on information systems, business analytics, and operations management. Their research covers topics ranging from artificial intelligence to operations analytics, from social media to supply chain, from information security and privacy to quantitative modeling. Their research has appeared within leading academic journals, including *Management Science, Information Systems Research, Management Information Systems Quarterly, Operations Research, Manufacturing & Service Operations Management, Production and Operations Management, INFORMS Journal on Computing,* and *IEEE/ACM Transactions*.

Requirements for the Management Information Systems (MIS) Major*

☐	OMIS 30	**Introduction to Programming with Python**
☐	OMIS 105	**Database Management Systems**
☐	OMIS 106	**Systems Analysis and Design**
☐	OMIS 107	**Systems Programming**

Three courses from:

☐	OMIS 111	**Computer Communications Systems**
☐	OMIS 113	**Data Warehousing and Business Intelligence**
☐	OMIS 114	**Data Science with Python**
☐	OMIS 116	**Applied Machine Learning**
☐	OMIS 117	**Software Development Project**
☐	OMIS 118	**Social Media Analytics**
☐	OMIS 120	**Web Programming**
☐	OMIS 135	**Enterprise Resource Planning Systems**
☐	OMIS 137	**Object-Oriented Programming**
☐	OMIS 150	**Financial Information Systems**

Requirements for the Accounting & Information Systems (AIS) Major*

☐	ACTG 120	**Accounting Data Analysis and Visualization**
☐	ACTG 130	**Intermediate Financial Accounting I**
☐	ACTG 131	**Intermediate Financial Accounting II**
☐	ACTG 132	**Advanced Financial Accounting**
☐	ACTG 135	**Auditing**
☐	ACTG 136	**Cost Accounting**
☐	ACTG 138	**Tax Planning and Business Decisions**
☐	OMIS 30	**Introduction to Programming****
☐	OMIS 105	**Database Management Systems**
☐	OMIS 106	**Systems Analysis and Design**
☐	OMIS 150 (ACTG 155)	**Financial Information Systems**
☐	One course from:	**OMIS 107, 111, 113, 114, 120, 135, or 137**

*In addition to University Core Curriculum and Leavey School of Business requirements for B.S. degree in Commerce.

**AIS majors may use OMIS 30 to satisfy the information systems requirement in the Leavey School of Business curriculum.

BUSINESS ANALYTICS MINOR

Business Analytics enables students to become adept at scientific, data-driven analysis of all aspects of business operations. Students learn how to use statistics, data management, data mining, and predictive and prescriptive modeling to turn data into information and insights to assist in making well-grounded business decisions. This minor is only open to business students.

MANAGEMENT INFORMATION SYSTEMS (MIS) MINOR

Management Information Systems enables non-MIS majors to enhance their understanding of the information technology that drives today's business. Students will learn how to create and manage information systems to support business functions. Being trained as business-oriented, technically proficient individuals, students can find careers in every type of industry from healthcare and banking to media and gaming, as well as in the high tech industry.

LEAVEY SCHOOL OF BUSINESS
SANTA CLARA UNIVERSITY

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Access our complete library of informational materials, detailing Leavey's academic majors, minors, and additional programs.