

# INFORMATION SYSTEMS AND TECHNOLOGY

MASTER'S IN INFORMATION  
SYSTEMS AND TECHNOLOGY



Alliant International University  
**California School  
of Management & Leadership**

## MASTER'S OF SCIENCE IN INFORMATION SYSTEMS AND TECHNOLOGY (A STEM DEGREE)

Let's face it. Breaking into the technology industry as a developer, product manager, web production specialist or in another integral role is challenging without the right qualifications and experience. An MS degree in the areas of science, technology, engineering and math, known as the STEM fields, will help put you in the position to excel in this growing field.

Science, technology, engineering and math disciplines provide a solid educational foundation by developing the critical skills required in most private and public sectors of industry. This type of education develops your abilities as a critical thinker, increases your science literacy, and enables innovators like you to succeed in your chosen fields. The IT department is not the only one to possibly employ these IT skills; marketing, finance, human resources, accounting, strategy, business analytics, operations are examples of fields that need and use the skills you'll develop in the Information Systems and Technology program.

### RESEARCH INDICATES THAT SCIENCE, TECHNOLOGY, ENGINEERING AND MATHEMATICS OCCUPATIONS ARE ON THE RISE:

- Employment in these occupations grew much faster than employment in other occupations over the last decade (24.4 percent versus 4.0 percent, respectively), and are projected to grow by 8.9 percent from 2014 to 2024, compared to 6.4 percent growth for other occupations.\*
- Nearly three-quarters of STEM workers have at least a college degree, compared to just over one-third of other workers.\*
- STEM degree holders enjoy higher earnings, regardless of whether they work in STEM or nonSTEM occupations. A STEM degree holder can expect an earnings premium of 12 percent over non-STEM degree holders, holding all other factors constant.

*US Department of Commerce, STEM Jobs: 2017 Update*  
[www.commerce.gov/data-and-reports/reports/2017/03/stem-jobs-2017-update](http://www.commerce.gov/data-and-reports/reports/2017/03/stem-jobs-2017-update)

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## EARN YOUR MS DEGREE IN BEAUTIFUL SAN DIEGO

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At Alliant International University you can earn your MS degree in this valuable field at our campus in the heart of San Diego's diverse technology marketplace. Your decision to earn an MSIST is an important step into your future as a credentialed technologist in the field of information systems.

Why not earn your MS in San Diego County, home to many technology-based companies and businesses interested in an educated work force in the sought after field of information systems and its technological foundations?

The MSIST program is taught on-campus as well as online, over a series of eight-week terms. Studies are geared towards earning your graduate degree in a STEM program within the California School of Management and Leadership's (CSML) Master's of Science in Information Systems and Technology Studies section.

The program is comprehensive and develops skills that are applicable in a variety of IT and management employment areas, further enhancing employment opportunities for graduates. The program's expansive curriculum prepares you for other sought after IT-associated disciplines in fields such as cybersecurity, data analytics, and Internet of Things (IoT) professional occupations.

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## PERPETUAL ADVANCEMENT

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Your time here will serve as a foundation upon which you will build your future, and that foundation is primed for lifelong learning. Here, perpetual improvement means taking hold of the opportunities that our well-established network has to offer—in order to stay on the forefront of an ever-evolving industry.

### **Industry Connections**

Our advisory board is comprised of industry leaders who help guide our school and, most importantly, our students. Our board members are deeply entrenched members of the business community and help us keep our curriculum relevant while providing invaluable connections to the industry.

## LEARN MORE

ALLIANT.EDU  
866.825.5426

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BAY AREA | FRESNO | SACRAMENTO | IRVINE  
ONLINE

 [Facebook.com/AlliantU](https://www.facebook.com/AlliantU)

 [Instagram.com/AlliantU](https://www.instagram.com/AlliantU)

 [Youtube.com/user/AlliantintUniv1](https://www.youtube.com/user/AlliantintUniv1)

 [linkedin.com/school/18997](https://www.linkedin.com/school/18997)

This program is accredited by the Accreditation Council for Business Schools and Programs (ACBSP).

ACBSP accreditation confirms that the teaching and learning processes offered within CSML's programs meet the rigorous educational standards established by said accrediting body.

Please note that not all programs are available at every campus, online, or to residents of every state. For important information about the educational debt, earnings, and completion rates of students who attended this program, please visit [alliant.edu/ge/mba](https://alliant.edu/ge/mba).

Alliant is accredited by the WASC Senior College and University Commission (WSCUC), a regional accrediting body recognized by the U.S. Department of Education.

## ADMISSIONS REQUIREMENTS

Admission criteria for California School of Management and Leadership (CSML) vary depending on the program you choose and your level of study. All requirements, however, are designed to determine the qualities and capabilities required of professionals in the field to which you are applying. Complete applications are forwarded to the appropriate academic department and/or review committee, who take a holistic approach to the candidate review process and admissions decision.

### ADMISSIONS CRITERIA: INFORMATION SYSTEMS AND TECHNOLOGY (MS)

- A completed application and application fee
- A bachelor's degree from an accredited university or its international equivalent
- Submission of official transcripts
- Essay or personal narrative
- Letters of recommendation (varies by program)
- English language proficiency
- Other requirements that can vary by program

Please see [catalog.alliant.edu](https://catalog.alliant.edu) for more information.

Additional requirements apply to international applicants

## INFORMATION SYSTEMS AND TECHNOLOGY (MS) CURRICULUM

Course offerings and sequence are subject to change.

Information systems technology and infrastructure

Database design principles and technologies

Management of information security

Data analytics for decision making

Enterprise systems analysis and project management

Distributive communications and protocols

Advanced programming with Python

Professional practice I

Cybersecurity technology

Professional practice II

Cloud computing concepts, tools, and applications

Professional practice III

Industry research project