

# Master of Science in Information Technology (MSIT)

*Fall 2016*

*DATA, ANALYTICS AND MANAGEMENT OF INFORMATION TECHNOLOGY  
ARE KEY SKILLS IN TODAY'S MARKETPLACE*

*A Master's in Information Technology is considered by Forbes Magazine to be  
"The Best Master's Degree," with a projected employment growth of 30% through 2020*

The new Master of Science in Information Technology (MSIT) from California Lutheran University's School of Management is designed to provide students with a solid and forward-thinking technical foundation used to effectively plan, design, implement and manage IT solutions and systems. It prepares students to be strong technical leaders, ready to lead IT-enabled organizational change in their organization. The program will take advantage of latest trends in the IT field. Through personal attention, close interaction with leading faculty in the field and our focus on adaptability to new technologies, you will advance your career as you are prepared to manage the challenges of an accelerating marketplace.

Cal Lutheran graduates are prepared to work and lead in many positions within the IT field, including:

- IT Project Manager
- Data Analyst
- Business Intelligence Analyst
- System Developer
- Business/Systems Analyst
- Chief Information Officer
- IT Consultant
- Security Consultant
- Network Analyst

## **Format:**

The program is delivered over four, 11-week terms each year (Fall, Winter, Spring and Summer) at our Thousand Oaks Campus, and can be completed in as little as 12 months (for students who come in with an adequate background). Foundation courses are available for students who have less technical/organizational proficiency.

## **Curriculum:**

Our program has two tracks: Information TECHNOLOGY MANAGEMENT and DATA ANALYTICS. The curriculum includes a total of 12 graduate courses (36 credits), with 8 core courses and 4 courses in the specialized track (a general MSIT degree is attained by selecting elective courses across tracks).

## **Core Courses:**

- Information Technology Management
- Organizational Behavior
- Data Management
- Software Planning and Development
- Data Communications and Networking
- Project Management
- Information Security
- Distributed Systems

## Track 1: Information Technology Management

Students may select four elective courses (12 credits) from the following IT elective course offerings below.

- IT Strategy & Business Value
- Healthcare Information Technologies
- Enterprise Systems
- IT Architecture and Infrastructure
- Emergent Technologies and Issues
- Special topics
- Internship
- IT Project

## Track 2: Analytics and Data Management

Students may select four elective courses (12 credits) from the following IT elective course offerings below.

- Principles of Data Analytics
- Data Mining
- Data Warehousing & Business Intelligence
- Big Data Technologies
- Internship (track-related)
- IT Project (track-related)

## The MSIT program uses fully functional Hadoop data cluster for teaching and research

Timely and relevant information has become the lifeblood of our economy. More than ever, organizations depend on IT to maintain and make sense of a continually growing stream of data and then use these virtual insights to provide solutions to the real problems they face.

Learning how to solve these problems requires working with real-world data. Lots of data. Big data. That's why Cal Lutheran students have access to invaluable resources, including a fully functional data processing cluster built on Hadoop technology. With these resources, Cal Lutheran students have been able to utilize:

- 15 years of domestic flight data to get insights into the causes of flight delays and recommend the best time/day and airlines to avoid flight delays.
- 12.5 million Amazon customer reviews to create a new approach to recommending products to potential customers.
- Yelp and Foursquare data to develop travel recommendations.
- 45,000 tweets from Twitter to discover which aspects of a new product are receiving the most public attention.

This kind of experience gives Cal Lutheran graduates an edge in the field, allowing them to jump into new environments and begin providing valuable solutions immediately.

### Student Testimonial:

*“The skills learned here translate globally. The technology lowers boundaries to what you can do, and where you can work. What I loved most about the Cal Lutheran Master program was the focus on how to adapt and make the most out of constantly evolving technology. Equipping students to assess new technologies, to be able to read when something is rising or falling in usefulness... is a much more sustainable approach.”* -Mustafa Zafarullah '14 (Oman)

### For More Information:

To learn more about the program and for information about applying for fall 2016, email: [clugradusa@callutheran.edu](mailto:clugradusa@callutheran.edu)

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