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MBA Cybersecurity Management

■ Program Overview

The future of cybersecurity in business and government will depend on people who have the insight not only how to build secure systems, but also design, implement, and enforce information management and security policies and systems. As the world continues to remain connected via cyberspace, there's a growing demand for cybersecurity careers in government, contracting, IT, armed forces, financial services, education, and health care. Our MBA concentration in Cybersecurity Management prepares graduates with knowledge and skills necessary to assume leadership roles in the fields of Cybersecurity Management.

Our Cybersecurity Management program is designed to provide managers and technology professionals with the essential tools needed to identify cyber threats; devise appropriate defense strategies; develop policy; plan and conduct security assessments; and understand the ethical, legal, and regulatory environment as it relates to operating in cyberspace.

Career Outlook

According to the Bureau of Labor Statistics, employment of information security analysts is projected to grow 37 percent from 2012 to 2022, much faster than the average for all occupations. Demand will be especially high in the federal government to protect the nation's critical technology systems. Specific roles may include:

- Cyber Analyst,
- Information Security Manager
- Network Security Manager
- Database Security Manager

■ Required Coursework

Business Core		21 credits
MBA 525	Professional Development	3 credits
MBA 531	Human Capital for Organizational Performance	3 credits
MBA 540	Managerial Economics	3 credits
MBA 560	Financial and Managerial Accounting	3 credits
MBA 565	Marketing	3 credits
MBA 599	Strategic Management	3 credits

Data Analytics Concentration Courses 9 credits

COM 504	Cybersecurity Compliance and Legal Issues	3 credits
COM 510	Principles of Cybersecurity	3 credits
COM 512	Cybersecurity Risk Management	3 credits

Optional Elective

COM 625	Internship	3-6 credits
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Total Credits 30 credits

Accreditation

Saint Leo University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS).

The business programs are also accredited by the Accreditation Council for Business Schools & Programs (ACBSP).

■ Faculty

Dean: Dr. Derek Mohammed

Associate Dean: Dr. Vyas Krishnan

Dept. Chair: Dr. Van Nguyen

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MBA Data Analytics Concentration

■ Program Overview

The MBA concentration in Data Analytics prepares graduates with knowledge and skills necessary to assume leadership roles in the fields of data analysis and business intelligence, and prepare students for career-track jobs in these areas. Students will be educated in the core subject areas of statistics, data analytics, and business intelligence, which is supplemented with a curriculum that provides a strong foundation in key functional areas of business. The program will provide students with the background knowledge in theory and practice to understand how to use big data and analytics to make informed strategic decisions.

Learn to solve real-life problems involving analysis of large data sets—including the ability to apply complex mathematical and statistical models, data visualization techniques, as well as soft skills, such as effective communication and business acumen, for the purpose of informed organizational decision-making. Practice computer-based data analysis techniques in a stimulating classroom and laboratory environments that use the latest state-of-the-art data analytics tools and technology. Gain marketable skills in data science, business analytics, data mining techniques, web analytics, and data visualization.

■ Career Outlook

Typical career paths for graduates include:

- Data Analytics Consultant
- Operations Research Analyst Business
- Intelligence Analyst
- Data Scientist
- Web Analytics Consultant
- Market Research Analyst
- Business Analyst

■ Required Coursework

Business Core		18 credits
MBA 525	Professional Development	3 credits
MBA 531	Human Capital for Organizational Performance	3 credit
MBA 540	Managerial Economics	3 credits
MBA 560	Financial and Managerial Accounting	3 credits
MBA 565	Marketing	3 credits
MBA 598	Statistics	3 credits
MBA 599	Strategic Management	3 credits
Specialization Courses		9 credits
MBA 581	Data Analytics	3 credits
MBA 582	Advanced Data Analytics	3 credit
COM 512	Business Intelligence	3 credit

Total Credits 27 credits

■ Accreditation

Saint Leo University is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools (SACS). The business programs are also accredited by the Accreditation Council for Business Schools & Programs (ACBSP).

■ Faculty

Dean: Dr. Derek Mohammed
Associate Dean: Dr. Vyas Krishnan
Dept. Chair: Dr. Van Nguyen

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Master of Science in Artificial Intelligence

■ Program Overview

The Master of Science degree in Artificial Intelligence provides a quality graduate education to students by strengthening analytic skills, offering valuable research experiences, and promoting professional development in Artificial Intelligence.

Our MS in Artificial Intelligence emphasizes experiential learning with courses in machine learning, deep learning, analysis of algorithms and more to best prepare graduates with the knowledge and skills to succeed in this dynamic, growing field.



The National Security Agency and the Department of Homeland Security have designated Saint Leo University as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE) through until 2027.

■ Career Outlook

Typical career paths for graduates include:

Artificial Intelligence Engineer, Machine Learning Engineer, Data Analyst, Software Architect, Data Engineer, Business Intelligence Developer, AI Research Scientist, Big Data Developer/Architect, Computer Scientist, Natural Language Processing Engineer, Imaging Data Scientist, Deep Learning Engineer.

■ Admission Requirements

Students admitted to the degree program must have earned an undergraduate degree in Computer Science or a related field from an accredited university.

■ Required Coursework

All of the following courses

COM 514	Cloud Computing Security
COM 542	Advanced Computer Architecture
COM 560	Fundamentals of Software Engineering
COM 562	Advanced Operating Systems
COM 563	Analysis of Algorithms
COM 571	Introduction to Artificial Intelligence
COM 575	Machine Learning and Intelligent Systems
COM 551	Business Analytics
COM 583	Applied AI and Deep Learning
COM 593	Current Issues in AI

Total Credit Hours: 30

■ Office of Graduate Admissions

Phone: (352) 588-7404
Toll Free: (800) 707-8846
Fax: (352) 588-7873
Email: grad.admissions@saintleo.edu

Mailing Address:

Office of Graduate Admissions
Saint Leo University
33701 State Road 52
P.O. Box 6665, MC 2248
Saint Leo, FL 33574

■ Accreditation

Saint Leo University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC).

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Master of Science in Cybersecurity

■ Program Overview

The Master of Science degree in Cybersecurity prepares graduates with knowledge, critical analysis, and application skills necessary to assume leadership roles in the fields of Information Assurance and Computer Security.

Our MS in Cybersecurity is designed to provide managers and technology professionals with the essential tools needed to identify cyber threats; devise appropriate defense strategies; develop policy, plan and conduct security assessments; and understand the ethical, legal, and regulatory environment as it relates to operating in cyberspace.

The National Security Agency and the Department of Homeland Security have designated Saint Leo University as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE).



■ Career Outlook

Typical career paths for graduates include: Cyber Analyst, Information Security Manager, Network Security Manager, Database Security Manager

■ Required Coursework

All of the following courses

COM 504	Cybersecurity Compliance and Legal Issues
COM 514	Cloud Computing Security
COM 508	Secure Software Design
COM 510	Principles of Cybersecurity Management
COM 512	Cybersecurity Risk Management
COM 520	Systems Security Management
COM 530	Network Security Management
COM 545	Web Services Security
COM 546	Advanced Penetration Testing
COM 590	Strategic Planning for Cybersecurity

Total Credit Hours: 30

Optional Elective

COM 625	Internship	3 - 6 credit
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■ Accreditation

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Master of Science in Computer Science

■ Program Overview

The Master of Science degree in Computer Science provides a quality computer science graduate education to students by strengthening analytic skills, offering valuable research experiences, and promoting professional development in computer science.

Our MS in Computer Science emphasizes experiential learning with courses in software design, computer architecture, artificial intelligence, machine learning and more to best prepare graduates with the knowledge and skills to succeed in this dynamic, growing field.

The National Security Agency and the Department of Homeland Security have designated Saint Leo University as a National Center of Academic Excellence in Cyber Defense Education (CAE-CDE).



■ Career Outlook

Typical career paths for graduates include: Automation Engineer, Software Development Engineer, Web Developer, Software Architect, Computer Network Architect, Programmer, Database Administrator, Software Assurance Analyst, Computer Scientist.

■ Admission Requirements

Students admitted to the degree program must have earned an undergraduate degree in Computer Science or a related field from an accredited university.

■ Required Coursework

All of the following courses

COM 508	Secure Software Design
COM 510	Professional Development
COM 545	Web Services Security
COM 560	Financial and Managerial Accounting
COM 563	Marketing
COM 542	Strategic Management
COM 563	Analysis of Algorithms
COM 566	Database Systems
COM 571	Introduction to Artificial Intelligence
COM 575	Machine Learning and Intelligent Systems

Total Credit Hours: 30

Optional Elective

COM 625	Internship	3 - 6 credit
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