

**Decode an exciting  
tech-driven career.**

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**Bachelor of  
Science in Computer  
Information Systems**

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# About Saint Leo University

Founded in 1889, Saint Leo University is a leading U.S. accredited university with a rich legacy of blending history with transformative, value-driven education. Now, Saint Leo is proud to offer 100% online degrees for students in India and Latin America in order to expand access to higher education. We aim to inspire young minds and ignite their individual aspirations. We lead in redefining 21<sup>st</sup>-century education with 25 years of online academic excellence and have a prominent global presence with 15,300 students and 100,000 global alumni from 100+ countries.

Saint Leo University is accredited by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) and the business degrees by the Accreditation Council for Business Schools and Program (ACBSP). These accreditations serve as a testament to our unwavering commitment to delivering the highest standards of education.

[SACSCOC Status Update](#)



Regional Accreditation by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC)



## #14

Best Value Schools in the U.S. (South)

by the U.S. News and World Report, 2021



## #26

Best Regional University in the U.S. (South)

by the U.S. News and World Report, 2021



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# Program Overview

Saint Leo University's Bachelor of Science in Computer Information Systems teaches you to design, build, and maintain information systems that support business operations and managerial decision-making. The field of computer information systems (CIS), which involves utilizing technology to ensure smooth organizational operations, is critical in all fields. CIS professionals are key in using technology to create a competitive advantage for a company, making these skills in high demand around the world.

Saint Leo's 100% online computer information systems degree program gives you the flexibility to successfully balance your work and home life with your studies. Our forward-thinking curriculum has been developed based on the recommendations of the Institute of Electrical and Electronics Engineers and the Association for Computing Machinery, two leading standards-making organizations in educational and scientific computing.



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# Why Computer Information Systems?

As businesses and government organizations become more reliant on technical solutions for efficiency and daily tasks, professionals with skills in CIS are in high demand. With a U.S. degree focusing on a combination of business and computer subjects, you'll stand out from the crowd when entering the job market. This degree program will open doors to many possibilities across various industries that can lead to long-term career fulfillment and success:

- The U.S. Bureau of Labor Statistics estimates that employment for computer and information systems managers will grow by 16% from 2021-2031, much faster than other careers.\*
- The average salary for an Information Systems Manager in India is ₹9,72,106.^

\*Bureau of Labor Statistics, Occupational Outlook Handbook: Computer and Information Systems Managers. [viewed online]

^Payscale, Information Systems Manager Salaries. [viewed online]



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# Professional Opportunities

An online Bachelor of Science in Computer Information Systems equips you with essential technological skills to design computing-driven solutions and manage information systems to drive organizational growth. This ever-evolving industry offers endless opportunities with career roles like:

IT project manager

Web developer

Chief information officer

Systems analyst

Computer programmer

Computer security analyst

Employment in computer and information technology occupations is projected to grow 15 percent from 2021 to 2031, much faster than the average for all occupations.

- \*Bureau of Labor Statistics

The average salary for a Computer and Information Systems Manager is ₹25,00,000 per year.

- Glassdoor



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# Why Choose Saint Leo University For Online Education?

## History of excellence in online education



Join a pioneer in online education with Saint Leo's 25+ year legacy of providing transformative online education, paired with our 130+ years of academic excellence.

## Access game-changing academic tools



Saint Leo University offers a dynamic learning experience with essential tools for professional and personal success. Gain exclusive access to Grammarly Premium, Microsoft Office 365, tutor.com, and a Zoom Premium Account for a seamless learning journey.

## 24x7 learning with an online library



Dive into a wealth of knowledge with 24x7 access to our expansive virtual library with a wealth of educational resources. Study when you want and transform your learning journey with a treasure trove of sources at your fingertips.

## Same degree value as on-campus



Our online programs and on-campus offerings in Florida have the same value and academic rigor. Our online and on-campus degrees are equally recognized, respected and accepted globally.

## Financial aid and scholarship



Navigate your educational journey with financial ease with the help of our academic advisors who can connect you with Saint Leo's financial support. With 0% financing options and merit scholarships, a U.S. education has never been more accessible.

## AI-powered Career Catalyst



Nail interviews with real-time feedback, craft customized resumes, captivate recruiters with your LinkedIn profile and much more! Maximize your potential for AI-enabled success and secure your dream job with Career Catalyst in partnership with Hiration.

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# Alumni Benefits

After graduation, whether from our online programs or on-campus courses, Saint Leo University alumni enjoy exclusive benefits. Join our online community to unlock a diverse array of privileges designed to enrich your post-graduate journey and keep you connected to the Saint Leo spirit.

## Personalized Career Support

Receive tailored career guidance and support through our dedicated Career Services. Whether you need help crafting a resume, exploring job opportunities, or seeking professional advice, we're just an email or call away, ready to assist you in advancing your career.

## Exclusive Education Discounts through Benefit Hub

Unlock a world of special offers and discounts through the Benefit Hub and the Saint Leo Alumni Association Discount Marketplace. Accessible behind a secure login, these platforms provide exclusive opportunities for our alumni to save on continued education and professional development.

## Sprint Magazine

Immerse yourself in the stories of accomplishment and success within our alumni community through the Sprint magazine. This publication serves as a showcase of the remarkable achievements of our graduates, creating a sense of pride and connection among our extended Saint Leo family.

## Engage in Alumni Events and Giving Days

Enrich your post-graduate experience by participating in engaging alumni events and giving days. These occasions not only provide a chance to reconnect with fellow alumni but also offer opportunities to contribute to the growth and development of our alma mater.

## Connect on Social Media

Join the Saint Leo Alumni Facebook Group to stay connected with the broader community. Share your experiences, network with other alumni, and stay informed about the latest university updates, fostering a sense of belonging and friendship.

## Virtual Alumni Chapter

Stay connected regardless of your location through our virtual alumni chapter. Engage in online discussions, attend virtual events, and leverage networking opportunities to strengthen your professional and personal connections with the extended Saint Leo family.



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# What will you learn?

Covering everything from data management for decision-making and project management, to solution development for value creation and web and mobile development for competitive advantage, Saint Leo's online computer information systems undergraduate program connects you with the skills you need to secure a job in the fast-changing digital industry.

Designed by experts with advanced credentials and diverse professional experience, this program aims to:

- Analyze complex computing problems and apply principles of computing and other relevant disciplines to identify solutions.
- Design, implement, and evaluate computing-based solutions to meet requirements.
- Function effectively as a member or leader of a team.
- Support the delivery, use, and management of information systems within the company environment.



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# Explore Career Catalyst

## An AI-based job accelerator platform

We are excited to bring you a treasure trove of AI-powered tools in partnership with Hiration, a pioneer in AI-based innovation. Now you can amplify your potential and secure your dream job with the help of Career Catalyst.

### Career Catalyst will help you:

- **Master mock interviews:** Sharpen your interview skills and receive instant, realtime feedback, allowing you to conquer your next interview with confidence and competence.
- **Tailor-make your resume:** Harness the power of the Job Matcher feature to customize your resume for specific opportunities, ensuring you outshine other qualified candidates.
- **Optimize your LinkedIn profile:** Showcase in-demand skills and experience to craft an irresistible LinkedIn profile that captures the interest of recruiters.
- **Perfect your cover letter:** Ensure your cover letter is exceptional and creates a lasting impression with detailed, actionable feedback on every element.

Immerse yourself in these exceptional, transformative features that empower you to present your best version and enhance your career potential.

Our dedicated team is here to provide step-by-step guidance. Feel free to [reach out](#) with any queries or concerns and find out how we can take your career to the next level.



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# Format

## Online degree program

Our online programs have **six convenient start dates** throughout the year and are divided into eight-week sessions - October, January, March, May, June, and August.

# Eligibility

To be eligible for admission in one of Saint Leo's online undergraduate programs you must meet the following criteria:

- Must not be a resident of the U.S.
- Must be proficient in English
- Must be a Higher Secondary School graduate (12th grade) with U.S. equivalent GPA of 2.0 (C) or higher (passing or above on your 12th grade final HSC, ICSE, CBSE, AISSC or other standardized exam)

Note: If final 12th grade exam scores are not available, students may submit their mid-term or prelims 12th grade scores and/or their 11th grade final scores.



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# Curriculum

Each undergraduate program at Saint Leo University is comprised of 120 credits (or 40 subjects). Click on the name of each curriculum section to read more on the Saint Leo catalog about the subjects you will take.

## University Explorations (42 credit hours)

University Explorations is the university's general education program. General education is a vital part of a student's subject of study at Saint Leo University, as it informs, deepens, and extends learning beyond the major.

Through a topical focus, University Explorations subjects demonstrate the relevance of the liberal arts and sciences to today's world, cultivating in students essential skills in critical thinking and decision making, effective communication, problem solving, analysis, and creativity. The curriculum consists of 42 credit hours comprised of 12 credits of foundational learning in English composition, mathematics, and computer skills, and 30 credits hours spread over five learning clusters representing the liberal arts and sciences.

### FOUNDATION SUBJECTS

**ENG 121** - Academic Writing I

**ENG 122** - Academic Writing II

**MAT 141** - Finite Mathematics

### THE HUMAN ADVENTURE

**ECO 110HA** - Economics for Life

**SOC 110HA** - The McDonaldization of Society

### THE HUMAN MOSAIC

**SOC 110HM** - The McDonaldization of Society

**REL-223ES** - World Religions: East and West

### SCIENCE IN A CHANGING WORLD

**SCI 115SC** - Is Evolution True? Your Inner Fish

**SCI 120SC** - Human Ecology

### THE CREATIVE LIFE

**HUM 110CL** - Giants of the Arts

**MUS 210CL** - Making Sense of the Sound:  
The Art of Listening Well to  
Great Music

### THEOLOGY & PHILOSOPHY IN DIALOGUE

**PHI 210RS** - Thinking and Doing Ethics

**REL 115** - Is God Silent? How to Read  
Scriptures to Build a Life of Love

**REL 125** - Searching for Light in the Darkness:  
Faith, Reason, and the Quest for  
God

## Common Body of Knowledge (36 credits)

The Common Body of Knowledge (CBK) for all Tapia College of Business majors provides the academic background to understand the economic structure of our global society. Those who enter the competitive market for scarce resources must be prepared to support public and private segments of our society. The College has developed an academic program in conjunction with the liberal arts that develops the whole person capable of creative critical thinking and problem solving.

### Students must complete the following:

**ACC 201** - Principles of Financial Accounting

**ACC 202** - Principles of Managerial Accounting

**ECO 201** - Principles of Macroeconomics

**ECO 202** - Principles of Microeconomics

**MAT 201** - Introduction to Statistics

**GBA 321** - Essential Business Skills

**MGT 301** - Principles of Management

**MGT 331** - Management of Human Resources

**MKT 301** - Principles of Marketing

## Computer Information Systems Subjects (48 credits)

**MAT 201 - Introduction to Statistics:** Development of the fundamental statistical methods, including graphs, measures of central tendency and variation. Inferential statistics includes a basic review of the concepts of probability, binomial probability, normal distribution, CLT, confidence intervals, hypothesis testing, regression analysis, and correlation. Use of statistical software packages.

**COM 203 - Computer Systems:** A technical introduction to computer hardware, software, and networking. Hardware includes processor technology, data representation, storage, and I/O devices. Software includes both application and systems software.

**COM 207 - Programming in C/C+:** A technical introduction to computer hardware, software, and networking. Hardware includes processor technology, data representation, storage, and I/O devices. Software includes both application and systems software.

**COM 209 - Programming in Java:** Java is a modern object-oriented programming language widely used to develop Web-based applications. This course will introduce the student to object-oriented programming using Java, and the development of interactive applications and applets. Course fee may apply.

**COM 215 - Principles of Networking:** This course will introduce the fundamental computer networking concepts. Students will gain knowledge in the following areas: network media, the Open System Interconnection (OSI) model, the TCP/IP protocol stack, the configurations of switches and routers, and networking protocols.

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**COM 302 - Python Programming:** This course will introduce students to Python, a high-level imperative and object-oriented language. Python offers a shorter and cleaner coding integration process while providing better programmer's productivity. Students learn Python's basic and advanced programming concepts.

**COM 309 - Network Theory and Design:** An introduction to the theory, design, and application of networks, the course will include the creation or simulation of a computer network.

**COM 312 - Computer Architecture:** This course is designed to provide the student with an understanding of the structure and operations of the digital computer including: its history; how their systems are organized; the logic used in the computer; the use of micro-technology in computers; a foundation in the functioning of the computer at various levels, including the instruction set level, the operating machine level, and assembly language programming; and parallel computing concepts.

**COM 315 - Decision Support Systems:** With better computer data analysis and the application of statistical concepts, decision making can be enhanced. This course provides the knowledge and skills to create these applications.

**COM 320 - Systems Analysis and Design:** Students will be provided with actual systems to design, implement, and document the system development cycle. The cycle includes an analysis of current systems, logical and physical systems design, program development, testing, implementation, maintenance, and documentation.

**COM 330 - Database Concepts and Programming:** This course introduces the student to the use of a database management system to provide the software and database necessary to upgrade a DBMS system. Database structures, applications, network, relational and hierarchical data models, application program development, query systems, file security, and the role of the database administrator will be studied.

**COM 333 - Web Design and Information Resources:** An introduction to the World Wide Web and the creation of online content, including the creation of web pages using HTML, XHTML, and CSS; the creation, selection, and use of digital media; and the use of third-party web sites for finding information and collaboration.

**COM 340 - Introduction to Internet Applications:** An introduction to Internet applications theory, the tools used to develop Internet applications, and the development of Web design, electronic commerce, and server administration.

**COM 416 - Introduction to Information Security:** The advent of global networks has provided communication capabilities for businesses and individuals unparalleled in the history of the world. Attacks on the system that deny service, destroy systems, and purloin information through the use of worms, viruses, and other criminal attacks make it imperative that information security be a significant part of any business plan, and that individuals working in that, or allied fields become knowledgeable in the principles of information security.

**COM 437 - Mobile Application Development:** This course provides the basics necessary to understand, design and develop Android mobile applications with real world examples. Students will learn structure, services, and activities of Android applications by using the Android Software Development Kit (SDK), the Java programming language and the Android Studio Integrated Development Environment (IDE) on a Windows or Mac computer.

**COM 498 - Advanced Computer Skills:** A capstone course emphasizing the integration of information and environmental systems to support broad strategic planning decisions.

### General Electives (18 credits)

Choose from available subjects to expand your knowledge in areas other than computer information systems.

**Total Credit: 120 credits (or 40 subjects)**



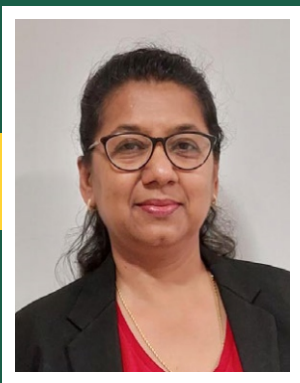
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# Meet your faculty members

At Saint Leo, you'll learn from the best with our faculty who have real-world experience in the topics they teach and a passion for online education. Our Indian faculty ensure you can access a U.S. education without worrying about cultural barriers that may come with studying abroad. Each faculty member is hired according to the same standards as our on-campus faculty members, meaning you'll get the same level of education as you would at our Florida campus.

## Faculty highlight

**Meet one of our talented undergraduate faculty members:**



### **Dr. Waheeda Sunny Thomas, PhD**

Dr. Waheeda Sunny Thomas is an accomplished academic with more than 30 years of teaching and research experience. She is Head of Student Engagement and Deputy Program Director of BBA

Cardiff Metropolitan University at Universal Business School, Mumbai, and at Universal AI University, Mumbai, in addition to her work with Saint Leo. She is a recognized Ph.D. guide in the subject of Economics. Her research interests are foreign trade, the Sustainable Development Goals and the quality of higher education in India. She has published six reference books, two textbooks and more than thirty-five research papers. Dr. Waheeda's involvement extends to her work as a panel member on the NAAC and an advisor at the Empretec India Foundation, an entrepreneurship development wing of the United Nations Conference on Trade and Development.

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## Dr. Richa Kela, PhD

Dr. Richa Kela has completed her Doctorate in Philosophy from the University of Delhi and was awarded a Junior Research Fellowship from the Indian Council of Philosophical Research, New Delhi.

Her topic of Doctoral research was "Euthanasia and the 'question of death: Examining with reference to Katha Upanishad". Dr. Richa has published 7 research papers in national and international journals and presented her work at different universities in India. Her area of interest lies in applied Indian ethics, Indian philosophy and philosophy of religion. She has been a philosophical counselor at Indira Gandhi National Open University and she has localized two courses on Philosophy of Religion for an international university. In addition to teaching at Saint Leo, she works as a faculty member for Shyama Prasad Mukherjee College, Delhi University, Delhi and also working under the research team of Gandhi Smriti and Darshan Bhawan from the Indian Ministry of Culture.



## Dr. Sivaraman Eswaran, PhD

Dr. Sivaraman completed his Ph.D. at Bharathiar University, Coimbatore in 2019. He has qualified National Eligibility Test (NET) and Tamil Nadu State Eligibility Test (TN SET) for Assistant Professor, Computer

Science and Application, conducted by the University Grants Commission and the Government of Tamil Nadu respectively. In addition, he is a CompTIA Security+ certified professional and EC-Council Certified Computer Hacking Forensic Investigator in addition to a Microsoft Certified Professional and EMC Academic Associate. His research interests include cyber security, 5G networks, and cloud computing. In addition to teaching at Saint Leo, Dr. Sivaraman Eswaran is working as a Senior Lecturer of Computing (Cyber Security) with the department of Electrical and Computer Engineering, Curtin University, Sarawak, Malaysia and is the program leader for the Bachelor of Computing in Cyber Security. He received an internal research grant funded by PES University for a research project titled, "Similarity Mapping of Substantial Metadata for Sustainable Cyber Crime Investigation" in September 2020 in addition to several research projects funded by Curtin University Malaysia in collaboration with the University of Nottingham Malaysia and the Swinburne University of Technology Malaysia.

[Learn more about our faculty](#)

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# University Accreditations



# Degree Certificate

## Saint Leo University

Saint Leo Florida



A Catholic University in the Benedictine tradition  
in accordance with the recommendation of the President and Faculty,  
the Board of Trustees of Saint Leo University has conferred upon

**Leo Fritz**  
the degree of  
**Bachelor of Arts**  
Accounting  
*Cum Laude*

with all the rights, honors, and privileges as well as the obligations  
and responsibilities thereunto appertaining  
this first day of June, *anno Domini*, two thousand twenty one.

*Jane Doe*  
Chairman of the Board

*John Doe*  
President

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Contact : +91 989 9087019

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