

COMPUTER INFORMATION SYSTEMS, CERTIFICATE

Prepare for a future with innovative, diverse, technology-based organizations in the ever-changing field of computer science and IT with a certificate in computer information systems offered through Saint Louis University's School for Professional Studies. The certificate provides you with the knowledge and skills needed to be competitive in today's market. You can choose to specialize in data analytics or cybersecurity, providing you with expertise that is in demand in modern organizations.

As part of SLU's School for Professional Studies, this 18-credit certificate program offers you a flexible option to meet your personal career goals. With six start terms each year, you can begin working toward your education at any time. All courses are offered entirely online in eight-week terms, making advanced education more accessible for working professionals.

Careers

According to the U.S. Bureau of Labor Statistics, the computer science and database industry is expected to grow by 12% through the year 2024, adding 488,500 new jobs. Job opportunities within this field have a broad range of salaries.

Students in the data analytics concentration may pursue a career as a market research analyst, data analyst or in business intelligence. Learn how to collect, analyze, interpret and present information obtained from data drawn from multiple, often disparate sources of organizational data.

Students in the cybersecurity concentration may pursue a career as a cybersecurity analyst, web developer, computer network architect or information assurance engineer. Gain the skills needed to secure information assets of an organization and ensure that data can be created, accessed and modified by only those with the requisite privileges. Upon completion, you will be prepared for employment opportunities in a variety of businesses and organizations.

Admission Requirements

The School for Professional Studies welcomes adult learners whose educational journey has been interrupted by life's circumstances. This includes individuals with at least one of the following characteristics:

- Delayed enrollment in post-secondary education
- Attends part-time for at least part of the academic year
- Works full-time (35 hours or more/week) while enrolled
- Financial independence, has dependents other than a spouse, is a single parent, or has other demands that make traditional education less feasible

Application Requirements

- **Work Experience:** At least three years or the equivalent. Work experience may include a full-time/part-time job, internship, volunteer work, or comparable experiences.
- **Education:** High school diploma or composite GED score of at least 2250.
- **Coaching session:** Successful completion of a meeting with an academic coach (this can be done virtually or on campus).
- **Grade Point Average:** Minimum transfer cumulative GPA of 2.5 (unless qualified for conditional admittance).

- **Transcript:** An official transcript from the most recent institution attended.

Scholarships and Financial Aid

There are two principal ways to help finance a Saint Louis University education:

- **Scholarships:** Scholarships are awarded based on academic achievement, service, leadership and financial need. The School for Professional Studies offers numerous scholarships and awards specially for new students.
- **Financial Aid:** Financial aid is provided in the form of grants and loans, some of which require repayment.

To determine eligibility for financial assistance, submit the Free Application for Federal Student Aid (FAFSA) early for maximum consideration. FAFSA is available online at <http://www.fafsa.ed.gov>.

For information on other scholarships and financial aid, visit the student financial services office online at <http://finaid.slu.edu>.

Learning Outcomes

1. Graduates will be able to analyze a problem and to identify and define the computing requirements appropriate to its solution.
2. Graduates will be able to design, implement, and evaluate a computer-based solution to meet a given set of computing requirements in the context of the discipline.
3. Graduates will be able to communicate effectively with a range of audiences about technical information.
4. Graduates will be able to make informed judgments in computing practice based on legal and ethical principles.
5. Graduates will be able to function effectively on teams to establish goals, plan tasks, meet deadlines, manage risk and produce deliverables.

Requirements

Code	Title	Credits
Required Courses		9
CIS 1600	Introduction to Programming	
CIS 2850	Principles of Data Analysis	
CIS 3300	Database Analysis and Design	
Specializations		
Select one of the following:		9
Data Analytics		
CIS 3850	Analytics and Visualizations	
CIS 4250	Survey of Machine Learning	
CIS 4750	Data Mining	
Cybersecurity		
CIS 3250	Cybersecurity Principles	
CIS 4300	The Fundamentals of Computer Forensics	
CIS 4600	Cyber Threats and Defense	
Total Credits		18

Contact Us

Apply for Admission (<https://www.slu.edu/online/becoming-a-student/apply.php>)

For additional admission questions, please call 314-526-2825 or email sps@slu.edu.