

Computer and Web Programming Diploma - 57 credits

Program Area: Computer Information Systems (Fall 2025)

REMEMBER TO REGISTER EARLY

Program Description

Students are prepared to provide technical skills necessary to develop and maintain effective web sites. Students will be taught the necessary skills to create mobile app and Windows software, as well as game development.

This program is offered on-campus and online.

The Computer and Web Programming Diploma transfers seamlessly into LSC's Computer and Web Programming AAS Degree (72 credits).

Program Outcomes

- Plan, create, and host a website that incorporates appropriate use of visual elements, graphics, and multimedia.
- Develop and apply both front-end and backend web development techniques.
- Analyze and build web-based or computerbased applications using appropriate programming languages and data.
- Practice effective problem-solving methods to build and test computer or web programs to solve business problems.
- Model and construct interfaces between database systems and websites or application programs.
- Design and implement basic game development using suitable programming language and platform

Pre-program Requirements

Successful entry into this program requires a basic level of keyboarding skills and a specific level of skill in the areas of English, reading and mathematics.

English/Reading:

Mathematics:

- Eligible for ENGL 1106 College Composition I, or
- Completion of ENGL/READ 0950/0955 (or equivalent or higher). ENGL/READ 0950/0955 may be taken concurrently with Semester I coursework.
- Eligible for MATH 0970 Intermediate Algebra, or
- Completion of MATH 0950/0955 (or equivalent or higher). MATH 0950/0955 may be taken concurrently with Semester I coursework.

There are other ways to qualify. Visit Course Placement (Isc.edu/course-placement) to find out more.

Required Courses

Required Courses			
Number	Name	Credits	Term
CIS 1402*	Foundations of CIS	3	
CIS 1406*	HTML/CSS	3	
CIS 1410*	Web Site Design	3	
CIS 1415*	Introduction to	4	
	Programming	4	
CIS 1408*	Scripting and Frameworks	4	
CIS 1420*	Advanced Web Site Design	4	
CIS 1430*	Data Analytics	3	
	Fundamentals	J	
CIS 2635*	Java Programming	3	
CIS 1412*	Web Graphics I	3	
CIS 1610*	Server-side Scripting	4	
CIS 2620*	Game Development and		
	Object-Oriented	4	
	Programming		
CIS 2621*	Advanced Game		
	Development and Object-	4	
	Oriented Programming		
CIS 2640*	Mobile App Development	3	
CIS 2980*	Internship	1	
CIS 2987*	CIS Capstone	3	
Technical	Choose 8 credits from the	8	
Electives	following:	0	
CIS	Any CIS course (except CIS		
	1400)		
CIS 1745*	Unix System Administration		
	(3 credits)		
CIS 1810*	Security Fundamentals (3		
010 0070#	credits)		
CIS 2972*	SQL Server Administration		
010.0500*	(3 credits)		
CIS 2560*	Web Server Administration		
CIC 2076*	(3 credits)		
CIS 2976*	Emerging Technologies (1		
CIS 2980*	credit) Internship (1-4 credits)		
CIS 2999	Special Topics in Computer		
010 2333	Information Systems (1-4		
	credits)		
	orcard)		

Total Credits

57

^{*}Requires a prerequisite or a concurrent course



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For interpretation of test results and selection of appropriate coursework; or general information about the program, admissions, financial aid, and getting started at LSC, contact the <u>professional advising team</u> (advising@lsc.edu) or 218-733-7601

For more information about the Computer and Web Programming Diploma including course descriptions, course prerequisites, the program report, and potential career opportunities, see the program website (https://www.lsc.edu/degrees/computer-and-web-programming-diploma/)

or

Contact Faculty Advisor, Anup Parajuli, (anup.parajuli@lsc.edu) at 218-733-5955

CIP Code: 11.0801

Minnesota State Program ID: 4707

LSC Major ID: 5117

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