



## Computer and Web Programming Certificate - 30 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 elementary skills to create web-based or Windows application/ software.

The Computer and Web Programming Certificate transfers seamlessly into LSC's Computer and Web Programming Diploma (57 credits), and 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 back-end web development techniques.
- Analyze and build elementary web-based or computer-based applications using appropriate programming languages and data

### 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:

- 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.

#### Mathematics:

- 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](https://www.lsc.edu/course-placement/) (https://www.lsc.edu/course-placement/) to find out more.

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 [professional advising team](mailto:advising@lsc.edu) (advising@lsc.edu) or 218-733-7601

### Required Courses

Number	Name	Credits	Term
CIS 1402*	Foundations of CIS	3	
CIS 1406*	HTML/CSS	3	
CIS 1410*	Web Site Design	3	
CIS 1412*	Web Graphics I	3	
CIS 1415*	Introduction to Programming	4	
CIS 1408*	Scripting and Frameworks	4	
CIS 1420*	Advanced Web Site Design	4	
CIS 1430*	Data Analytics Fundamentals	3	
CIS 2635*	Java Programming	3	

### Total Credits

**30**

\*Requires a prerequisite or a concurrent course



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For more information about the Computer and Web Programming Certificate including course descriptions, course prerequisites, the program report, and potential career opportunities, see the [program website \(https://degrees.lsc.edu/web-design/\)](https://degrees.lsc.edu/web-design/) or

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



MINNESOTA STATE

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*All courses in diploma and/or certificate programs are acceptable for credit toward Lake Superior College degree programs as indicated on individual program planners. This is not a contract; Lake Superior College reserves the right to change the planner as necessary. This document is available in alternative formats upon request, by contacting [Student Accessibility Services](#) or (218) 733-7650 or MRS/TTY (800) 627-3529.*