



Computer and Web Programming Certificate - 30 credits

Program Area: Computer Information Systems (Fall 2022)

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](http://lsc.edu/course-placement) (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](#) (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

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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