

Computer and Web Programming AAS Degree - 72 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.

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 web-based or computer-based 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.

Program Articulations

This program has the following articulations to 4-year degree programs:

- Minnesota State University, Moorhead, BS in Operations Management
- Minnesota State University, Moorhead, BS in Project Management:

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 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 CIS 1610* Server-side Scripting 4 CIS 2620* Game Development and Object-Oriented Programming 4 CIS 2620* Advanced Game Development and Object-Oriented Programming 4 CIS 2621* Advanced Game Development and Object-Oriented Programming 4 CIS 260* Mobile App Development 3 CIS 2980* Internship 1 CIS 2980* CIS Capstone 3 Technical Choose 8 credits from the following: Administration (3 credits) 8 CIS 1745* Unix System Administration (3 credits) Administration (3 credits)	Required Courses				
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Total Credits

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Computer and Web Programming AAS Degree - 72 credits

Program Area: Computer Information Systems (Fall 2025)

REMEMBER TO REGISTER EARLY

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, mathematics, and reading.

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 (Isc.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

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

or

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

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CIP Code: 11.0801

Minnesota State Program ID: 4702

MINNESOTA STATE LSC Major ID: 5116

AASC Approval: 1/13/21 Updated: 3/10/25

Created: 3/1/05

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