



**Computer and Web Programming AAS Degree - 72 credits**  
Program Area: Computer Information Systems (Fall 2019)

**\*\*\*REMEMBER TO REGISTER EARLY\*\*\***

**Program Description**

This program is offered on-campus and online. Options include a 72-credit Associate in Applied Science degree, a 57-credit diploma or a 30-credit certificate program, depending on the level of skill you would like to accomplish. All programs build the skills necessary to develop and maintain effective web sites, Windows and mobile applications.

**Program Outcomes**

- Successfully design, implement and host a Web page that incorporates appropriate use of graphics and multimedia
- Design and implement Web-based application using appropriate programming languages
- Student will be able to use problem solving techniques to create a computer or web program to solve business problems
- Develop interfaces between database systems and website or application programs

**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	Web Programming I	3	
CIS 1410	Web Site Design	3	
CIS 1412	Web Graphics I	3	
CIS 1415	Introduction to Programming	4	
CIS 1408*	Web Programming II	4	
CIS 1420*	Advanced Web Site Design	4	
CIS 1510	Microcomputer Database	2	
CIS 1610*	Web Scripting	4	
CIS 2620*	Object-Oriented Programming I	4	
CIS 1532	Data-driven Web Sites	3	
CIS 2635	Java Programming	3	
CIS 2640	Mobile Apps Programming	3	
CIS 2976	Emerging Technologies	1	
CIS 2980	Internship	1	
CIS 2987	CIS Capstone	3	
<i>Technical Electives</i>	<i>Choose 9 credits from the following:</i>	9	
CIS 16XX	<i>Any CIS 1600 series course</i>		
CIS 1745	Network Administration: UNIX (3 credits)		
CIS 2972*	Network Administration: SQL Server (3 credits)		
CIS 2560*	Web Server Administration (3 credits)		
CIS 26XX	<i>Any CIS 2600 series course</i>		
CIS 2621*	Object-Oriented Programming II (4 credits)		
CIS 2980	Internship (1-4 credits)		
CIS 2999	Special Topics in Computer Information Systems (1-4 credits)		
<i>Minnesota Transfer Curriculum</i>	MATH 1100 or MATH 1115 or PHIL 1125 (Goal Area 4, 3-4 credits)		
	Elective credits from two additional Goal Areas of the Minnesota Transfer Curriculum (select from Goal Areas 1-3 and 5-10)	15	

**Total Credits** **72**

\*Requires a prerequisite or a concurrent course



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### 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:

- A score of 78 or higher on the reading comprehension portion of the Accuplacer, or
- Completion of ENGL/READ 0950 or 0955 (or equivalent course or higher). ENGL/READ 0955 may be taken concurrently with Semester I coursework.

#### Mathematics:

- A score of 71 or higher on the Elementary Algebra Skills portion of the Accuplacer, or
- Completion of MATH 0460 (or equivalent course or higher). MATH 0460 may be taken concurrently with Semester I coursework.

*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:pat@lsc.edu) (pat@lsc.edu) or 218-733-7601*

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For more information about the Computer and Web Programming Degree including course descriptions, course prerequisites, and potential career opportunities, see the [program website](https://degrees.lsc.edu/programming/) (https://degrees.lsc.edu/programming/)

- or -

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



MINNESOTA STATE

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LSC Major ID: 5116

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