



## Computer and Web Programming AAS Degree - 72 credits

Program Area: Computer Information Systems (Fall 2016)

**\*\*\*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, 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:  
<http://www.mntransfer.org/download.php?id=4885>
- Minnesota State University, Moorhead, BS in Project Management:  
<http://www.mntransfer.org/download.php?id=5380>

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>Choose 9 credits from the following Technical Electives:</i>			
CIS 16XX	Any CIS 1600 series course		
CIS 1745	Network Administration: UNIX (3 credits)		
CIS 2972*	Network Administration: SQL Server (3 credits)		
CIS 2560*	Web Server Administration (3 credits)	9	
CIS 26XX	Any CIS 2600 series course		
CIS 2621*	Object-Oriented Programming II (3 credits)		
CIS 2980	Internship (1-4 credits)		
CIS 2999	Special Topics in Computer Information Systems(1-4 credits)		
MATH 1100 <b>OR</b> MATH 1105 <b>OR</b> MATH 1115 <b>OR</b> PHIL 1125 (Goal Area 4, 3-4 credits)			
<i>Elective credits from two additional Goal Areas of the Minnesota Transfer Curriculum (select from Goal Areas 1-3 and 5-10)</i>		15	
<b>TOTAL CREDITS</b>		<b>72</b>	

\*Requires a prerequisite or a concurrent course



## Computer and Web Programming AAS Degree - 72 credits

Program Area: Computer Information Systems (Fall 2016)

**\*\*\*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:

- 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 at [pat@lsc.edu](mailto:pat@lsc.edu) or 218-733-7601*

---

For more information about the Computer and Web Programming Diploma including course descriptions, course prerequisites, the gainful employment disclosure, and potential career opportunities, see program Website:

<https://degrees.lsc.edu/programming/>

- or -

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

---



CIP Code: 11.0801  
MnSCU Program ID: 4702  
LSC Major ID: 5116

Created: 4/27/05  
AASC Approval: 12/2/15  
Updated: 6/9/2016 7:44 AM

*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 Disability Services, [disabilityservices@lsc.edu](mailto:disabilityservices@lsc.edu) or (218) 733-7650 or MRS/TTY (800) 627-3529.*