



Computer and Web Programming Diploma - 57 credits

Program Area: Computer Information Systems (Fall 2020)

*****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.

The Computer and Web Programming Diploma transfers seamlessly into LSC's Computer and Web Programming AAS Degree (72 credits).

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
- 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

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:

- A score of 250 or higher on the Reading 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 270 or higher on the Arithmetic portion of the Accuplacer, or
- A score of 236 or higher on the QAS portion of the Accuplacer **and** a score of 236 or higher on the Arithmetic portion of the Accuplacer, or
- Completion of MATH 0460 (or equivalent course or higher). MATH 0460 may be taken concurrently with Semester I coursework.

There are other ways to qualify. Visit [LSC Accuplacer](http://lsc.edu/Accuplacer) (lsc.edu/Accuplacer) to find out more.

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 | Any CIS 1600 series course | | |
| CIS 1745 | UNIX System Administration (3 credits) | | |
| CIS 2972* | SQL Server Administration (3 credits) | | |
| CIS 2560* | Web Server Administration (3 credits) | | |
| CIS 26XX | Any CIS 2600 series course | | |
| 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) | | |

Total Credits

57

***Requires a prerequisite or a concurrent course**



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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

For more information about the Computer and Web Programming Diploma including course descriptions, course prerequisites, the program report, 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) at 218-733-5955



MINNESOTA STATE

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