

Lake Superior College

Program Planner

Created on: 04/27/05

Updated: 02/09/11

Effective: Fall 2011

Qualified applicants should be aware that program class sizes are limited, which may delay acceptance into the program.

You may be required to complete additional (or less) coursework, dependent upon the results of your Computerized Placement Test (CPT) and/or previous coursework completed or certifications earned.

General Education courses required by this program may be taken during any term, as long as the specific prerequisites for that course have been met. Please check with your advisor.

Program: Computer and Web Programming

Degree Type: Associate in Applied Science

Total Required Credits: 72

Pre-program Requirements

Successful entry into this program requires a specific level of skill in the areas of English, mathematics, and reading. Program entry will depend, in part, on meeting the prerequisites listed below:

English:

- A score of 86 or higher on the Sentence Skills portion of the CPT, OR
- Completion of ENGL0460 or its equivalent transfer course or higher.
- If required, ENGL0460 may be taken concurrently with Semester I coursework.

Mathematics:

- A score of 71 or higher on the Elementary Algebra Skills portion of the CPT, OR
- Completion of MATH0460 or its equivalent transfer course or higher.
- If required, MATH0460 may be taken concurrently with Semester I coursework.

Reading:

- A score of 78 or higher on the Reading Comprehension portion of the CPT, OR
 - Completion of READ0465 or its equivalent transfer course or higher.
 - If required, READ0465 may be taken concurrently with Semester I coursework.
-

Semester I

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
FYE1000	Intro to College (None)	F	1	
CIS1406	Web Programming I (Concurrent enrollment in ENGL0460 and READ0460 or test out)	F	3	
CIS1412	Web Graphics (CIS1406 or concurrent enrollment)	F	3	
CIS1415	Introduction to Programming (MATH0450, Elementary Algebra CPT score above 35)	F	4	
CIS1510	Microcomputer Database (Concurrent enrollment in ENGL0460 and READ0465 or test out)	F	3	
CIS1519	Survey of Operating Systems (Concurrent enrollment in ENGL0460 and READ0465 or test out)	F	3	
Total Credits for Term			17	

Semester II

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CIS1410	Web Site Design (CIS1406)	S	3	
CIS1414	Web Animation (CIS1406 and CIS1412)	S	4	
CIS1419	Introduction to E-Commerce (CIS1406)	S	2	
CIS1530	Database Management (CIS1415 and CIS1510)	S	4	
CIS1610	Web Scripting (CIS1415 or instructor's consent)	S	4	
Total Credits for Term			17	

Summer Session

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
	General Education Electives (Refer to Table 2)	SUM	3	
Total Credits for Term			3	

Semester III

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CIS1408	Web Programming II (CIS1406)	F	3	
CIS2620	Object-Oriented Programming I (CIS1415, CIS1610)	F	4	
MATH1100 OR MATH1115	College Algebra (MATH0470 or MATH0480 or appropriate placement score) OR Contemporary Discrete Mathematics (MATH0470 or equivalent)	F/S F	4 (4)	
	Technical Electives (Refer to Table 1)	F	6	
Total Credits for Term			17	

Semester IV

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CIS2987	CIS Capstone (Students must have completed Semesters I, II, and III of the program planner from which the student intends to graduate)	S	3	
CIS2635	Java Programming (CIS1415 or instructor's consent)	S	4	
CIS2980	Computer Internship (CIS instructor approval)	F/S	1	
	Technical Electives (Refer to Table 1)	S	3	
	General Education Electives (Refer to Table 2)	S	7	
Total Credits for Term			18	

Table 1: Technical Electives

(Choose nine credits from the following:)

Course ID#	Course Title (Pre-reqs)	Term	Credits	Grade/ Term
CIS16XX	Any CIS1600 series course	F/S		
CIS1745	Network Administration: UNIX (CIS1519 or CIS1521; or instructor's consent)	F/S	3	
CIS1972	Network Administration: SQL Server (CIS2952)	S	3	
CIS2560	Web Server Administration	F	3	

	(CIS1519 or CIS1521)			
CIS26XX	Any CIS2600 series course	F/S		
CIS2621	Object-Oriented Programming II (CIS2620)	F	4	
CIS2999	Special Topics in Computer Science	I	1-4	

Table 2: General Education Requirements (15 Credits)

General Education courses shall be selected from at least three (3) of the ten (10) goal areas of the Minnesota Transfer Curriculum. The general education courses listed below are required and satisfy the MTC goal areas.

Course ID#	MTC Goal Area	Credits	Grade/ Term
FYE1000		1	
Communication	1	3	
Humanities	6	3	
MATH1100 or MATH1115	4	4	
History & Social and Behavioral Sciences	5	3	
General Education – Other		1	

- *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 can be made available in alternative formats, such as large print, Braille, or audio tape, by calling 733-7650 or MRS/TTY 800-627-3529.*