

Computer Science

In keeping with the fast-growing computer science industry, Computer Science programs are designed to prepare students for an industrial, business, or governmental career. Cal Lutheran offers majors and minors in both computer science and computer information systems, and certificates in information technology and information systems.

Included in the computer science facility are the PC laboratories, a study area for majors, and electronic classrooms with large screen projection systems for lectures, as well as faculty offices. Small classes allow faculty members to provide individualized attention to students and their projects and research.

The department also maintains an experimental networking lab, which runs various network operating systems. The department is fully connected to the Internet and every lab PC or workstation has complete Internet access.

Cal Lutheran computer science graduates often pursue careers that utilize their skills in software and hardware development, programming, computer use in businesses, computer engineering and education.

Graduates of Cal Lutheran's computer science program are working at:

- Disney
- J.D. Power & Associates
- Teradyne
- Litton Industries
- aerospace contractors
- Big Eight accounting firms.

Computer science students are in demand and Cal Lutheran's graduates enjoy a high rate of placement in jobs or graduate schools.

CLU also offers a Master of Science in Computer Science and a Five Year BS/MS in Computer Science.

Bachelor of Science in Computer Science

48 credits minimum, 36 credits upper division

CSC 210	Introduction to Computer Programming	4
CSC 220	Advanced Computer Programming	4
CSC 335	Software Engineering	4
CSC 340	Operating Systems	4
CSC 350	Intro Data Communication & Networks	4
CSC 499	Capstone	4
MATH 241	Discrete Mathematics	4
Additional Computer Science credits		20
Total Hours		48

Recommended supporting courses

ART 380	Digital Art	3
ART 480	Advanced Digital Art	3
MATH 231	Statistics for the Sciences	4
MATH 251	Calculus I	4
MULT 100	Introduction to Multimedia	4
Total Hours		18

Certificate in Information Technology

32 credits, 20 credits upper division. GPA 2.25 or higher.

CSC 210	Introduction to Computer Programming	4
CSC 220	Advanced Computer Programming	4
CSC 335	Software Engineering	4
CSC 340	Operating Systems	4

CSC 350	Intro Data Communication & Networks	4
MATH 241	Discrete Mathematics	4
Additional Upper Division Computer Science Credits		8
Total Hours		32

Minor in Computer Science

20 credits minimum, 12 credits upper division.

Please note that CSC-210 is the official beginning course for Computer Science and Computer Information Systems majors and minors. To be eligible for registering CSC-210, students are expected to successfully complete CSC110 or pass the CSC110 placement test (passing score is 80/100).

Five-Year Bachelor of Science/Master of Science Program in Computer Science

The Five-Year B.S./M.S. Computer Science Program is a challenging academic program for our most accomplished students. The program allows participants to obtain both a Bachelor of Science in Computer Science/Computer Information Systems and a Master of Science in Computer Science in five years. Participants are granted conditional admission and allowed to take graduate courses in computer science during their senior year, which can be used toward satisfying their M.S. degree requirements.

1. Admission Requirements
 - a. Students must submit application by spring semester of the junior year.
 - b. Students should complete all General Education requirements by the end of the junior year.
 - c. Students should complete at least 40 credits toward the Major Requirements for B.S. in CS/CIS before spring semester of the senior year.
 - d. Students who are enrolling in graduate courses must be within 12 credits of completing a B.S. in CS or CIS.
 - e. Students' GPA in Computer Science undergraduate courses must be at least 3.2.
 - f. Admission is granted or denied before the spring semester of senior year.
 - g. All B.S. in CS/CIS requirements must be met by the end of the fourth year, and an application for degree should be filed to receive the B.S. in CS/CIS.
 - h. Graduate status is attained after all B.S. requirements have been met.
2. Other Program Requirements
 - a. During the senior year, students should take 8 units of graduate Computer Science courses.
 - b. Graduate courses taken in the senior year will count for graduate credit and can not be used to satisfy the B.S. requirements.
 - c. Any graduate courses taken prior to admission into the program can not count toward the M.S.C.S requirements.