

# COMPUTER SCIENCE, BS

## Program Description

This degree provides a solid background in computer science with supporting coursework in applied mathematics and business. Adding an appropriate minor field of study can complement the program, as well as give the graduate a competitive edge in the work force.

## Program Learning Outcomes

- Analyze the needs of a user, design a computer software system to satisfy those needs, and write and debug computer programs needed for that system. (*Analyze Needs*)
- Evaluate and implement solutions to programming problems using appropriate algorithms, programming languages, user interfaces, and utilities. (*Implement*)
- Evaluate changes in technology, software, and user needs based on accepted and updated best practices in the field. (*Best Practices*)
- Communicate technical information relative to problems and solutions to both other professionals in the field as well as involved non-technical persons. (*Communication*)

## Degree Requirements

Code	Title	Hours
<b>Departmental Requirements</b>		
Departmental GPA minimum of 2.50 or higher		
CSCI 103	Survey of Computer Science	3
CSCI 105	Intro to Computer Programming	3
CSCI 106	Web Page Design & Development	3
CSCI 121	Principles of Programming	4
CSCI 201	Data Structures and Algorithms	4
CSCI 211	Database Applications	4
CSCI 221	Computer Networks	3
CSCI 263	Managing Computer Security	3
CSCI 291	Computer Science Project	4
CSCI 321	Computer Graphics	3
CSCI 327	Web App Design & Development	3
CSCI 341	Discrete Structures Comp Sci	4
CSCI 342	Adv Programming Techniques	4
CSCI 351	App Interface Development	3
CSCI 371	Multi-Platform App Development	3
CSCI 411	Data Analytics	3
CSCI 415	Computer Org Architecture	3
CSCI 434	Operating Systems Concepts	3
CSCI 418	Senior Project I	3
CSCI 419	Senior Project II	3
<b>Mathematics Requirements</b>		
MATH 131	College Trigonometry	3
MATH 112	Calculus Business/Life Science	4
or MATH 151	Calculus I	
MATH 207	Prin of Statistical Methods	3
MATH 215	Fund Concepts of Mathematics	4
<b>Other Requirements</b>		
BUSN 121	Introduction to Business	3

ENGL 306	Technical Writing	3
Free Electives		13-16
<b>Total Hours</b>		<b>99-102</b>

**General Education:** All LSSU bachelor's degree candidates must complete the LSSU General Education Requirements.

**A minimum of 124 credits (at the 100 level or higher) must be earned for graduation with a cumulative gpa of 2.00 or higher. A gpa of 2.50 or higher is required in your Major, and a gpa of 2.00 or higher is required in your General Education Requirements.**