COMPUTER SCIENCE (B.S.C.S.)

Required course work includes the university requirements (see regulation J-3 (https://catalog.uidaho.edu/general-requirements-academic-procedures/j-general-requirements-baccalaureate-degrees/)) and:

Code	Title	Hours
COMM 101	Fundamentals of Oral Communication	2
ENGL 317	Technical Writing	3
CS 120	Computer Science I	4
CS 121	Computer Science II	3
CS 150	Computer Organization and Architecture	3
CS 210	Programming Languages	3
CS 240	Computer Operating Systems	3
CS 270	System Software	3
CS 360	Database Systems	3
CS 383	Software Engineering	4
CS 385	Theory of Computation	3
CS 395	Analysis of Algorithms	3
CS 401	Contemporary Issues in Computer Science	1
CS 445	Compiler Design	4
CS 480	CS Senior Capstone Design I	3
CS 481	CS Senior Capstone Design II	3
MATH 170	Calculus I	4
MATH 175	Calculus II	4
MATH 176	Discrete Mathematics	3
MATH 330	Linear Algebra	3
STAT 301	Probability and Statistics	3
Natural Science with Lab for Science and Engineering Majors from two different disciplines		
Complete two courses including their accompanying labs from the following list:		8
BIOL 114	Organisms and Environments	
CHEM 111 & 111L	General Chemistry I and General Chemistry I Laboratory	
ENVS 101 & ENVS 102	Introduction to Environmental Science and Field Activities in Environmental Sciences	
GEOG 100 & 100L	Physical Geography and Physical Geography Lab	
GEOL 102 & 102L	Historical Geology and Historical Geology Lab	
PHYS 211 & 211L	Engineering Physics I and Laboratory Physics I	
SOIL 205 & SOIL 206	The Soil Ecosystem and The Soil Ecosystem Lab	
Upper-division Computer Science courses		*12*
Except CS 398, CS 400, CS 401, CS 431, CS 499		
Total Hours		85

Courses to total 120 credits for this degree, not counting ENGL 101**,** MATH 143**, and other courses that might be required to remove deficiencies. A minimum grade of 'C' is required in the following courses in order to graduate:**

Code	Title	Hours
CS 120	Computer Science I	4
CS 121	Computer Science II	3
CS 150	Computer Organization and Architecture	3
CS 210	Programming Languages	3
CS 240	Computer Operating Systems	3
CS 270	System Software	3
MATH 170	Calculus I	4
MATH 176	Discrete Mathematics	3
MATH 175	Calculus II	4

Students majoring in computer science must earn a grade of C or better in CS 120, CS 121, and CS 150 and a C or better in MATH 176 before registration is permitted in 200 level CS courses. Students majoring in computer science must earn a grade of C or better in CS 210, CS 240, CS 270, and MATH 170 and MATH 175 before registration is permitted in upper-division CS courses.

Students must consult with their advisors when selecting electives within the curriculum to insure that their career objectives are met.

1. Graduates of the program will be able to design, implement, and evaluate a computing-based solution to meet a given set of computing requirements in the context of the program's discipline.
2. Graduates of the program will able to communicate effectively in a variety of professional contexts.
3. Graduates of the program will be able to analyze a complex computing problem and apply principles of computing and other relevant disciplines to identify solutions.
4. Graduates of the program will be able to recognize professional responsibilities and make informed judgments in computing practice based on legal and ethical principles.
5. Graduates of the program will be able to function effectively as a member or leader of a team engaged in activities appropriate to the program's discipline.
6. Graduates of the program will be able to apply computer science theory and software development fundamentals to produce computing-based solutions.