

Revised January, 2016

Curriculum Guide for Computer Science, B.S. Degree			
Freshman Year			
FALL SEMESTER		SPRING SEMESTER	
Course and Number	Hrs.	Course and Number	Hrs.
CS 150 Problem Solving & Programming. I	4	CS 151 Problem Solving & Programming. II	4
MATH 153 Calculus I	4	MATH 255 Calculus II	4
CS 191 First Year Seminar: How Does Software Work?	3	ENGL 101 Writing and Rhetoric	3
Liberal Studies	3	COMM 201 Foundations of Communications	3
	14		14

If a student is not beginning in Calculus I, see the department for a revised course sequence.

Sophomore Year			
FALL SEMESTER		SPRING SEMESTER	
Course and Number	Hrs.	Course and Number	Hrs.
CS 351 Data Structures and Algorithms	4	CS 350 Computer Organization	3
CS 253 Software Development	3	CS 352 Programming Languages	3
MATH 250 Logic and Proof	3	CS 263 Software Engineering	3
ENGL 202 Writing and Critical Inquiry	3	Liberal Studies	3
Liberal Studies	3	Science	4
	16		16

Upper Level Perspective (ULP): An approved Upper Level Liberal Studies Perspectives course is required in one of the Liberal Studies Perspectives categories.

Junior Year			
FALL SEMESTER		SPRING SEMESTER	
Course and Number	Hrs.	Course and Number	Hrs.
CS 353 Social and Ethical Issues in Computing	1	CS 370 Operating Systems	3
CS 465 Computer Networking	3	CS 453 Database Systems	3
MATH 270 or 370 Statistics	3	MATH 310 Discrete Structures	3
Science	4	Liberal Studies	3
Liberal Studies	3	Science	4
Liberal Studies	3		
	17		16

The first semester of the senior year, students may apply for graduation.

Senior Year			
FALL SEMESTER		SPRING SEMESTER	
Course and Number	Hrs.	Course and Number	Hrs.
CS 495 Capstone I	2	CS 496 Capstone II	2
CS Elective	3	CS Elective	3
Liberal Studies	3	General Electives	9
General Elective	6		
	14		14

Total Hours for Degree: 120

This sequence assumes that students begin in Calculus I. Students can begin with math courses other than Calculus I, the initial math course should be determined by placement. Please see the Advising Center for questions.

Students may finish earlier if they attend summer school at WCU or another approved institution.