

EIGHT SEMESTER PLAN: COMPUTER SCIENCE, B.S. DEGREE

Freshman Year			
FALL SEMESTER		SPRING SEMESTER	
<i>Course and Number</i>	<i>Credit Hours</i>	<i>Course and Number</i>	<i>Credit Hours</i>
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 192 First Year Seminar: Applied AI, Programming and Ethics	3	ENGL 101 Writing and Rhetoric	3
Liberal Studies	3	COMM 201 Foundations of Communications	3
	14		14

Sophomore Year			
FALL SEMESTER		SPRING SEMESTER	
<i>Course and Number</i>	<i>Credit Hours</i>	<i>Course and Number</i>	<i>Credit Hours</i>
CS 253 Software Development	3	CS 352 Programming Languages	3
CS 351 Data Structures and Algorithms	4	CS 364 Software Engineering	3
MATH 250 Logic and Proof	3	MATH 310 Discrete Structures	3
ENGL 202 Writing and Critical Inquiry	3	Liberal Studies	7
Liberal Studies	3		
	16		16

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

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Junior Year			
FALL SEMESTER		SPRING SEMESTER	
<i>Course and Number</i>	<i>Credit Hours</i>	<i>Course and Number</i>	<i>Credit Hours</i>
CS 260 Computer Organization	3	CS 370 Operating Systems	3
CS 465 Computer Networking	3	CS 453 Database Systems	3
CS 466 Information Security I	3	Liberal Studies	3
MATH 270 or 370 Statistics	3	Liberal Studies	3
Science	4	Science	4
	16		16

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

Senior Year			
FALL SEMESTER		SPRING SEMESTER	
<i>Course and Number</i>	<i>Credit Hours</i>	<i>Course and Number</i>	<i>Credit Hours</i>
CS 495 Capstone I	2	CS 353 Professional Ethics in Computing	2
CS Elective	3	CS 496 Capstone II	2
Liberal Studies	3	CS Elective	3
General Elective	7	General Electives	6
	15		13

**Total Hours for Degree: 120**

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.