

Winona State University
Four-Year Program Map

Created on 5/4/2026
Effective Fall 2026

Program: Computer Science (MATH 115) (BS CSCS)
Emphasis (optional): Computer Science Option

Fall Semester				Spring Semester		
	Course	Requirement Met	SH	Course	Requirement Met	SH
Year 1	CS 101 Exploring Creative Computing	GE Goal 4/Major	3	CS 234 Algorithms and Problem Solving I	Major	4
	MATH 115 College Algebra or higher	GE Goal 4	4	MATH 120 Precalculus or higher	GE Goal 4	4
	ENG 111 College Reading and Writing or CMST 191	GE Goal 1	3-4	CMST 191 Introduction to Public Speaking or ENG 111	GE Goal 1	3-4
	OR 100 Introduction to Higher Education	Recommended	1	General Education Course	GE Goal 5-10	3
	General Education Course*	GE Goal 5-10	3	Physical Development/Wellness Elective	PDW	1
	NOTE: Students must earn a grade of "C" or better in all major courses. A 2.5 GPA is required in the major and overall. Students are allowed to attempt CS courses at most 3 times (including withdraws). *Students need a total of 40 semester hours of general education courses that fulfill specific goal areas. To remain under 120 credits, take courses that meet two goal areas within Goals 5-10.					
	First-Year Fall Semester Credit Hour Total			First-Year Spring Semester Credit Hour Total		
			14-15			15-16
Year 2	CS 250 Algorithms and Problem Solving II	Major	4	CS 341 Data Structures*	Major/CAI	4
	CS 275 Mathematical Foundations of Algorithms	Major	4	CS 375 or CS 385**	Major	4
	MATH 212 Calculus	GE Goal 4/Major	4	CS 375, CS 385, or CS Elective***	Major	3-4
	General Education Course	GE Goal 5-10	3	STAT 210 Statistics	Major	3
				Physical Development/Wellness Elective	PDW	1
				NOTE: *CS 341 satisfies the math/critical analysis intensive requirement. **CS 385 satisfies a writing intensive requirement. ***Students review the DARS to find the full list of CS Electives.		
	Second-Year Fall Semester Credit Hour Total			Second-Year Spring Semester Credit Hour Total		
			15			15-16
Year 3	CS 313 Networking and Telecommunications*	Major	4	CS 410 Software Engineering*	Major	4
	CS 375, CS 385, or CS Elective	Major	3-4	CS Elective	Major	6
	CS Elective	Major	3	General Education Course (science course with lab)	GE Goal 3	4
	General Education Course (science course)	GE Goal 3	3	General Education Course	GE Goal 5-10	3
	NOTE: *CS 313 satisfies the oral intensive requirement.			* CS 410 satisfies the second writing intensive requirement.		
	Third-Year Fall Semester Credit Hour Total			Third-Year Spring Semester Credit Hour Total		
			13-14			17
Year 4	CS 405 Operating Systems	Major	3	CS 499 Computer Science Capstone	Major	3
	CS 435 Theory of Computation	Major	3	CS Elective	Major	3
	CS Elective	Major	3	General Education Course	GE Goal 5-10	3
	General Education Course	GE Goal 5-10	3	General Education Course	GE Goal 5-10	3
	General Education Course	GE Goal 5-10	3	Unrestricted Elective	Elective	1
	NOTE:: Students must complete 120 semester hours to graduate.					
	Fourth-Year Fall Semester Credit Hour Total			Fourth-Year Spring Semester Credit Hour Total		
			15			13
	Total Credit Hours (SH):					120