

Winona State University  
Four-Year Program Map

Created on 5/4/2026  
Effective Fall 2026

**Program:** Computer Science (MATH 120) (BS CSCS)  
**Emphasis (optional):** Computer Science Option

Fall Semester				Spring Semester		
	Course	Requirement Met	SH	Course	Requirement Met	SH
<b>Year 1</b>	CS 101 Exploring Creative Computing	GE Goal 4/Major	3	CS 250 Algorithms and Problem Solving II	Major	4
	CS 234 Algorithms and Problem Solving I	Major	4	CS 275 Mathematical Foundations of Algorithms	Major	4
	MATH 120 Precalculus or higher	GE Goal 4	4	MATH 212 Calculus*	GE Goal 4/Major	4
	ENG 111 College Reading & 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			
	<i>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).</i>			<i>NOTE: *Students who enter WSU able to take MATH 212, should take it their first fall semester and replace Math 212 in their second semester with a General Education course.</i>		
	<b>First-Year Fall Semester Credit Hour Total</b>			<b>15-16</b>	<b>First-Year Spring Semester Credit Hour Total</b>	
<b>Year 2</b>	CS 341 Data Structures*	Major/CAI	4	CS 313 Networking and Telecommunications*	Major	4
	CS 375, CS 385**, or CS Elective***	Major	3-4	CS 375, CS 385, or CS Elective	Major	3-4
	STAT 210 Statistics	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
	Physical Development/Wellness Elective	PDW	1	Physical Development/Wellness Elective	PDW	1
	<i>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.</i>			<i>*CS 313 satisfies the oral intensive requirement. **Students need a total of 40 semester hours of general education courses that fulfill specific goal areas. By choosing classes that meet two goal areas, it is possible to free space for a minor or a double major.</i>		
	<b>Second-Year Fall Semester Credit Hour Total</b>			<b>14-15</b>	<b>Second-Year Spring Semester Credit Hour Total</b>	
<b>Year 3</b>	CS 410 Software Engineering* or CS Elective	Major/WI	4	CS 410 Software Engineering or CS Elective	Major	3-4
	CS 375, CS 385, or CS Elective	Major	3-4	CS Elective	Major	3
	General Education Course	GE Goal 5-10	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
	<i>NOTE: *CS 410 satisfies the second writing intensive requirement.</i>					
	<b>Third-Year Fall Semester Credit Hour Total</b>			<b>13-14</b>	<b>Third-Year Spring Semester Credit Hour Total</b>	
<b>Year 4</b>	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	General Education Course	GE Goal 5-10	3
	<i>NOTE:</i>			<i>NOTE: Students must complete 120 semester hours to graduate.</i>		
	<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>15</b>	<b>Fourth-Year Spring Semester Credit Hour Total</b>	
<b>Total Credit Hours (SH):</b>						<b>120</b>