



## Winona State University Four-Year Program Map

Created on 8/17/2017  
Effective Fall 2016

**Program:** **Statistics Major**  
**Emphasis (optional):**

Fall Semester				Spring Semester			
	Course	Requirement Met	SH	Course	Requirement Met	SH	
<b>Year 1</b>	CMST 191 or 192 or ENG 111 College Reading and Writing	GE Goal 1	3-4	CMST 191 or 192 or ENG 111 College Reading and Writing	GE Goal 1	3-4	
	MATH 212 Calculus I	GE Goal 4/Major	4	MATH 213 Calculus II	Major	4	
	STAT 210 Statistics	Major	3	MATH 242 Linear Algebra	Major	4	
	General Education Course	GE Goal 5-10	3	STAT 310 Intermediate Statistics	Major/WI	3	
	OR 100 Orientation	Recommended	1	Personal Development Wellness	PDW	1	
	<i>NOTE: Prerequisite for MATH 212: Qualifying score on the mathematics placement exam or MATH 120 Precalculus.</i>				<i>NOTE: Some elective courses are not offered every year.</i>		
<b>First-Year Fall Semester Credit Hour Total</b>			<b>14</b>	<b>First-Year Spring Semester Credit Hour Total</b>			<b>16</b>
<b>Year 2</b>	STAT 335 Principles of Study Design	Major	3	STAT 365 Experimental Design and Analysis	Major	3	
	STAT 360 Regression Analysis	Major	3	MATH 337 Probability	Major	3	
	MATH 312 Multivariable Calculus	Major/CAI	4	DSCI 210 Data Science	Major	3	
	General Education Course	GE Goal 3	3	General Education Course (Lab)	GE Goal 3	4	
	General Education Course	GE Goal 5-10	3	General Education Course	GE Goal 5-10	3	
	<i>NOTE: The selection of electives should be made with respect to the career objectives of each student. Students interested in actuarial science should take the VEE certification courses, making sure to note that ACCT 211, ECIB 201 &amp; 202 are all General Education Program courses. Students interested in Graduate School are strongly encouraged to double major in Mathematics &amp; Statistics. Students interested in pursuing careers or graduate work in biostatistics should consider taking some courses in biology.</i>				<i>NOTE: Students must have 40 S.H. credits of 300 &amp; 400 Level Courses. To remain under 120 credits, take courses that meets two goal areas within GOALS 5-10.</i>		
<b>Second-Year Fall Semester Credit Hour Total</b>			<b>16</b>	<b>Second-Year Spring Semester Credit Hour Total</b>			<b>16</b>
<b>Year 3</b>	STAT 450 Introduction to Mathematical Statistics I or Additional Elective**	Major/WI or Major Elective/OI	3	DSCI 325 Management of Structured Data	Major	3	
	Statistics Elective*	Major Elective/OI	3	STAT 460 Introduction to Mathematical Statistics II or Additional Elective**	Major/WI or Major Elective/OI	3	
	General Education Course	GE Goal 5-10	3	Statistics Elective*	Major Elective	3	
	General Education Course	GE Goal 5-10	3	STAT 395 Professional Skill Development for Statistics	Major	2	
	General Education Course	GE Goal 5-10	3	General Education Course	GE Goal 5-10	3	
	<i>NOTE: *Statistics Elective must choose a STAT course from 320 to 499. See Course Catalog or DARS for a full list of courses offered.</i>				<i>NOTE:</i>		
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>15</b>	<b>Third-Year Spring Semester Credit Hour Total</b>			<b>14</b>
<b>Year 4</b>	STAT 488 Statistics Projects or STAT 492 Practicum in Stats	Major	3	STAT 495 Communication of Capstone Outcomes	Major	1	
	Additional Elective** (recommended DSCI 425 or STAT 370) or STAT 450 Introduction to Mathematical Statistics I	Major Elective/OI or Major/WI	3	Additional Elective** or STAT 460 Introduction to Mathematical Statistics II	Major Elective or Major/WI	3	
	General Elective	Elective	3	General Elective	Elective	3	
	General Education Course	GE Goal 5-10	3	General Elective	Elective	3	
	General Education Course	GE Goal 5-10	3	General Elective	Elective	3	
				Personal Development Wellness	PDW	1	
<i>NOTE: **Additional Electives (6 S.H. required) see DARS for a full list of courses that are offered to fulfill requirement. The recommended course meets the Oral Intensive needed.</i>				<i>NOTE:</i>			
<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>15</b>	<b>Fourth-Year Spring Semester Credit Hour Total</b>			<b>14</b>

Total Credit Hours (SH): 120