



Winona State University
Four-Year Program Map

Created on 6/8/2017
Effective Fall 2017

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

Fall Semester				Spring Semester			
	Course	Requirement Met	SH		Course	Requirement Met	SH
Year 1	CMST 191 Public Spkg or 192 Speech Comm or ENG 111 Rdg/Wrtg	GE Goal 1	3-4	CMST 191 Public Spkg or 192 Speech Comm or ENG 111 Rdg/Wrtg	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	
NOTE: Prerequisite for MATH 212: Qualifying score on the mathematics placement exam or MATH 120 Precalculus.				NOTE: Some elective courses are not offered every year.			
First-Year Fall Semester Credit Hour Total			14-15	First-Year Spring Semester Credit Hour Total			15-16
Year 2	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	
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. Note - ECON 201 & 202 are General Education Program courses. Students interested in Graduate School are strongly encouraged to double major in Mathematics & Statistics. Students interested in pursuing careers or graduate work in biostatistics should consider taking some courses in biology.				NOTE: Students must have 40 S.H. of 300 & 400 Level Courses. To remain under 120 credits, take courses that meet two goal areas within GOALS 5-10.			
Second-Year Fall Semester Credit Hour Total			16	Second-Year Spring Semester Credit Hour Total			16
Year 3	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	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	
NOTE: *See Course Catalog or DARS for a full list of courses. **Statistics Elective must choose a STAT course between STAT 320 to 499.				NOTE: *See Course Catalog or DARS for a full list of courses. **Statistics Elective must choose a STAT course between STAT 320 to 499.			
Third-Year Fall Semester Credit Hour Total			15	Third-Year Spring Semester Credit Hour Total			14
Year 4	STAT 488 Statistics Projects or STAT 492 Practicum in Statistics	Major	3	STAT 495 Communication of Capstone Outcomes	Major	1	
	Additional Elective* (recommend DSCI 425 or STAT 370 which will meet Oral Intensive) 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 Education Course or General Elective	GE Goal 5-10/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	
NOTE: *Additional Electives (6 S.H. required) see DARS for a full list of courses that are offered to fulfill requirement.				NOTE: *Additional Electives (6 S.H. required) see DARS for a full list of courses that are offered to fulfill requirement.			
Fourth-Year Fall Semester Credit Hour Total			15	Fourth-Year Spring Semester Credit Hour Total			14

Total Credit Hours (SH): 120

Guide to 4 Year Major Maps

- 4 Year Major Maps are intended to show a recommended four-year pathway to a degree. Students must be fulltime, college ready, and ready to declare a major to follow the map exactly as shown. Maps are only a sample; there may be other pathways that lead to completion of the degree in four years.
- Major Maps are NOT intended to take the place of meetings with advisors.
- Major Maps are NOT intended to take the place of the Degree Audit System (DARs).

All courses listed on a major map will be labelled as one or more of the following:

GE Goal	General Education Goal Area	Indicates that the course meets one of the 10 General Education Goals
Gen Elec	General Elective	Indicates that the course does not meet a General Education, Major or Minor requirement but does count toward the degree
Major	Major Requirement	Indicates that the course meets a Major requirement
Major Elec	Major Elective	Indicates that the course counts toward the major as an elective, must be chosen from list of approved courses
Minor	Minor Requirement	Indicates that the course meets a Minor requirement
CAI	Critical Analysis Intensive	Indicates that the course counts as a Critical Analysis Intensive
OI	Oral Intensive	Indicates that the course counts as an Oral Intensive
WI	Written Intensive	Indicates that the course counts as a Written Intensive
PDW	Personal Development and Wellness	Indicates that the course counts as a Personal Development and Wellness Requirement

General Education Goal Areas:

		Minimum credits required
Goal 1	Communication	7 credits
Goal 2	Critical Thinking (Met with completion of all other goal areas)	--
Goal 3	Natural Science	7 credits
Goal 4	Mathematics	3-4 credits
Goal 5	History, Social/Behavioral Sciences	9 credits
Goal 6	Humanities and Fine Arts	9 credits
Goal 7	Human Diversity	3 credits
Goal 8	Global Perspective	3 credits
Goal 9	Ethic and Civic Responsibility	3 credits
Goal 10	People and the Environment	3 credits

Graduation Requirements:

- Minimum of 120 total credits (semester hours) required for Bachelors' Degree
- Minimum of 40 General Education credits required
- Minimum of 40 Upper Division credits required
- Minimum of 30 Residence credits required in Junior/Senior years
- Minimum WSU cumulative grade point average of 2.00; some programs require higher grade point averages

Major Maps are not contracts. Winona State University reserves the right to make changes at any time, without prior notice, to programs, policies, procedures and information described in this major map. Students should consult the appropriate academic department or college for currently accurate program information.