



Winona State University  
**Four-Year Program Map**

Created on 11/13/2017  
 Effective Fall 2017

**Program:** Geoscience (BS GEES)  
**Emphasis (optional):** Environmental Science Option

Fall Semester				Spring Semester			
	Course	Requirement Met	SH		Requirement Met	SH	
<b>Year 1</b>	ENG 111 College Rdg/Wrtg or CMST 191 Intro Pblc Spkg	GE Goal 1	3-4	ENG 111 College Rdg/Wrtg or CMST 191 Intro Pblc Spkg	GE Goal 1	3-4	
	Math sequence (semester 1)	Major/ GE Goal 4	3	GEOS 235 Earth and Life Through Time	Major	4	
	GEOS Intro Course	Major/GE Goal 3	4	Math sequence (semester 2)	Major	3	
	CHEM 212	Major/GE Goal 3	4	General Education Course	GE Goal 5/6/7/8/9	3	
	OR 100 Orientation	General Elective	1	Personal Development and Wellness Course	PDW	1	
	<i>NOTE: GEOS 090 (0 SH) must be taken at least 6 semesters</i>				<i>NOTE:</i>		
<b>First-Year Fall Semester Credit Hour Total</b>			<b>15-16</b>	<b>First-Year Spring Semester Credit Hour Total</b>			<b>14-15</b>
<b>Year 2</b>	GEOS 301 Field & Analytical Methods	Major	4	GEOS 316 GIS	Major	3	
	GEOS 305 Minerals & Rocks	Major	4	GEOS 470 Geological Research Strategies	Major	2	
	GEOS 309 Watershed Science	Major	4	PHYS 201 or 221	Major	4	
	General Education Course	GE Goal 5/6/7/8/9	3	BIOL 242	Major	4	
				General Education Course	GE Goal 5/6/7/8/9	3	
	<i>NOTE:</i>						
<b>Second-Year Fall Semester Credit Hour Total</b>			<b>15</b>	<b>Second-Year Spring Semester Credit Hour Total</b>			<b>16</b>
<b>Year 3</b>	GEOS Focus area	Major	4	GEOS Focus area	Major	4	
	GEOS Focus area	Major	3-4	GEOS Focus area (GEOS 325)^	Major/GE Goal 10	3	
	Additional Science (MATH, CHEM, BIOL, PHYS)	Major	3-4	General Education Course	GE Goal 5/6/7/8/9	3	
	General Education Course	GE Goal 5/6/7/8/9	3	Additional Science (MATH, CHEM, BIOL, PHYS)	Major	3-4	
	<i>*NOTE: Focus Areas include Rocks and Tectonics, Surface Processes, and Broader Perspectives. Students are required to take 8 credits in Rocks and Tectonics, 8 credits in Surface Processes and 6 credits in Broader Perspectives. Students must also take 3-4 additional credits in any of the three focus areas. Focus area courses are typically offered on an alternate year schedule, so courses available to a student will depend on the year. Multiple Focus Area courses carry the CAI, OI or WI designations.</i>				<i>^NOTE: It is assumed in this major map that students take GEOS 325 Environmental Geoscience (3 S.H.) as one of their Focus Area courses as it also fulfils GE GOAL 10.</i>		
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>16-18</b>	<b>Third-Year Spring Semester Credit Hour Total</b>			<b>16-17</b>
<b>Year 4</b>	GEOS 475 Geoscience Seminar	Major	1	GEOS Focus area	Major	4	
	GEOS Elective	Major	4	GEOS Focus area	Major	3	
	Approved RTTR, ECON 315, or POLS 340	Major	3	General Education Course	GE Goal 5/6/7/8/9	3	
	General Education Course	GE Goal 5/6/7/8/9	3	General Education Course	GE Goal 5/6/7/8/9	3	
	Personal Development and Wellness Course	PDW	1	Additional 300-400 Level Science (CHEM, BIOL ONLY)	Major	3	
	<i>NOTE:</i>				<i>NOTE:</i>		
<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>12</b>	<b>Fourth-Year Spring Semester Credit Hour Total</b>			<b>16</b>

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.