



Winona State University  
Program Map

Created on 11/15/2018  
Effective Fall 2018

Program: **Biology (BS BIES)**  
Emphasis **Environmental Science**

Fall Semester				Spring Semester			
	Course	Requirement Met	SH		Course	Requirement Met	SH
Year 1	BIOL 241 Basics of Life or BIOL 242 Organismal Diversity	GE Goal 3	4	BIOL 241 Basics of Life or BIOL 242 Organismal Diversity	GE Goal 3	4	
	Chem 212 Principles of Chemistry I	GE Goal 3	4	CHEM 213 Principles of Chemistry II	GE Goal 3	4	
	Mathematics - 120, 140, or 212	Goal 4	3 - 4	General Education Course	GE Goal(s) 5-10	3	
	ENG 111 College Reg/Wrtg or CMST 191 Intro Pblc Spkg	GE Goal 1	3 - 4	ENG 111 College Reg/Wrtg or CMST 191 Intro Pblc Spkg	GE Goal 1	3 - 4	
	OR 100 Orientation	General Elective	1				
	<i>Note:</i>			<i>Note:</i>			
	<b>First-Year Fall Semester Credit Hour Total</b>			<b>15-17</b>	<b>First-Year Spring Semester Credit Hour Total</b>		
Year 2	BIOL 312 General Ecology	Major	3	BIOL 308 Cell Biology	Major	3	
	BIOL 313 General Ecology Laboratory	Major	1	CHEM 340 Organic Chemistry or CHEM 351 Organic Chemistry II*	Major	4 - 5	
	STAT 305 Biometry or STAT 210 Statistics	Major Elective	3	GEOS 235 Earth and Life Through Time	Major	4	
	BIOL 310 Genetics	Major	3	General Education Course	GE Goal(s) 5-10	3	
	CHEM 350 Organic Chemistry I or General Education Course	Major or GE Goal(s) 5-10	3 - 4				
	<i>Note: Students must complete 120 credits to graduate. To remain at 120 credits, take at least one course that meets two goal areas within GOALS 5-10.</i>			<i>Note: Students must earn 40 SH credits of 300 &amp; 400 level courses. *CHEM 340 may be substituted with both CHEM 350 and CHEM 351.</i>			
	<b>Second-Year Fall Semester Credit Hour Total</b>			<b>13-14</b>	<b>Second-Year Spring Semester Credit Hour Total</b>		
Year 3	Biology Electives*	Major Electives	6-7	Biology Elective*	Major Elective	3-4	
	Physics 201 General Physics I or Physics 221 University Physics I**	Major	4	Physics 202 General Physics II or Physics 222 University Physics II	Major	4	
	GEOS 309 Watershed Science	Major	4	BIOL 315 Environmental Biology	Major	3	
				General Education Course	GE Goal(s) 5-10	3	
	<i>Note: *Students must complete at least 15 SH of Biology electives. (See DARS and Catalog for options.) **PHYS 201/PHYS 202 may be substituted with both PHYS 221 and PHYS 222.</i>			<i>Note: *Students must complete at least 15 SH of Biology electives. (See DARS and Catalog for a full list of course options.)</i>			
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>14-15</b>	<b>Third-Year Spring Semester Credit Hour Total</b>			<b>13-14</b>
Year 4	Biology Elective(s)*	Major Elective(s)	4-6	Chemistry/Geoscience Elective Requirement*	Major	3 - 4	
	General Education Course	GE Goal(s) 5-10	3	BIOL 499 Capstone Research	Major	3	
	General Education Course	GE Goal(s) 5-10	3	General Education Course	GE Goal(s) 5-10	3	
	General Education Course	GE Goal(s) 5-10	3	General Education Course	GE Goal(s) 5-10	3	
	Physical Development and Wellness	PDW	1	Physical Development and Wellness	PDW	1	
	<i>Note: *Students must complete at least 15 SH of Biology electives. (See DARS and Catalog for options.)</i> □			<i>Note: *See DARS for a full list of courses offered for Chemistry/Geoscience electives. Students must complete 120 credits to graduate.</i>			
	<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>14-16</b>	<b>Fourth-Year Spring Semester Credit Hour Total</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.