



## Winona State University Four-Year Program Map

Created on 6/12/2017  
Effective Fall 2017

**Program:** Biology (BS BIEC)  
**Emphasis (optional):** Ecology

Fall Semester				Spring Semester				
	Course	Requirement Met	SH		Course	Requirement Met	SH	
<b>Year 1</b>	ENG 111 College Reading and Writing or CMST 191/2	GE Goal 1	3-4		CMST 191/192 or ENG 111 College Reading and Writing	GE Goal 1	3-4	
	CHEM 212 Principles of Chemistry I	GE Goal 3/Major	4		CHEM 213 Principles of Chemistry II	GE Goal 3/Major	4	
	BIOL 242 Organism Diversity or BIOL 241 Basics of Life	GE Goal 3/Major	4		MATH -consult MAJOR advisor	GE Goal 4/Major	4	
	MATH -consult MAJOR advisor	GE Goal 4/Major	4		BIOL 241 Basics of Life or BIOL 242 Organism Diversity	Major	4	
	OR Orientation 100	Recommended	1					
	<i>NOTE:</i>							
<b>First-Year Fall Semester Credit Hour Total</b>			<b>16-17</b>	<b>First-Year Spring Semester Credit Hour Total</b>			<b>15-16</b>	
<b>Year 2</b>	BIOL 312 General Ecology	Major	3		BIOL 308 Cell Biology	Major/WI	3	
	BIOL 313 General Ecology Laboratory	Major	1		CHEM 340 or CHEM 351 Organic Chem II*	Major	4-5	
	BIOL 310 Genetics	Major/CAI	3		General Education Course**	GE Goal 5-10	3	
	STAT 305 Biometry (Field & Quantitative Techniques Course)	Major Elective	3		General Education Course	GE Goal 5-10	3	
	General Education Course Or CHEM 350 Organic Chem I	GE Goal 5-10 or Major	3-4		General Education Course	GE Goal 5-10	3	
	<i>NOTE: Students must have 40 S.H. credits of 300 &amp; 400 Level Courses.</i>				<i>NOTE: *Major requires Chemistry courses either CHEM 350 &amp; 351, or CHEM 340. (4-9 SH depending on which route chosen. **To meet all ten goal areas, select a course within GOALS 5-10 that meet two goal areas.</i>			
<b>Second-Year Fall Semester Credit Hour Total</b>			<b>13-14</b>	<b>Second-Year Spring Semester Credit Hour Total</b>			<b>16-17</b>	
<b>Year 3</b>	Organismal/Systematic Ecology ***	Major Elective	4		Principles & Processes ****	Major	3-4	
	PHYS 201 General Physics I or PHYS 221 University Physics I	Major	4		PHYS 202 General Physics II or PHYS 222 University Physics II	Major	4	
	Ecology Elective^	Major	4		Biology Elective^	Major/OI	4	
	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: ***Must select ONE course from the following: BIOL 303, 318, 319, 320, 350, 360.</i>				<i>NOTE: ****Must select ONE course from the following: BIOL 315, 380, 423, 424, 425. ^One elective course must meet the Oral Intensive requirement.</i>			
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>15</b>	<b>Third-Year Spring Semester Credit Hour Total</b>			<b>17-18</b>	
<b>Year 4</b>	Ecology Elective or Required Course	Major/Major Elective	4		Biology Elective or Ecology Required Course	Major/Major Elec	4	
	General Education Course	GE Goal 5-10	3		General Education Course	GE Goal 5-10	3	
	Ecology Elective	Major	4		BIOL 499 Capstone Project	Major/WI	3	
	General Education Course	GE Goal 5-10	3		Personal Development Wellness	PDW	2	
	<i>NOTE: ^ Ecology option electives must total 13-14 SH, see list DARS for a full list of courses that are available to be taken. Also Required Ecology Courses and Elective Ecology Option Courses must total 24 SH. If you have questions about this please look at your DARS to see your progress.</i>				<i>NOTE:</i>			
	<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>14</b>	<b>Fourth-Year Spring Semester Credit Hour Total</b>			<b>12</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.