



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

Created on 6/12/2017  
 Effective Fall 2017

**Program:** Biology (BS BIAH)  
**Emphasis (optional):** Allied Health

Fall Semester				Spring Semester		
	Course	Requirement Met	SH	Course	Requirement Met	SH
<b>Year 1</b>	ENG 111 College Reading & Writing or CMST 191/2	GE Goal 1	3-4	CMST 191/2 Intro to Public Speaking or ENG 111	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 241 Basics of Life	Major	4	BIOL 242 Organismal Diversity	Major	4
	MATH 120 Precalculus	GE Goal 4	4	MATH 140 Applied Calculus or MATH 212 Calculus I	GE Goal 4/Major	3
	OR 100 Orientation	Recommended	1	Physical Development Wellness	PDW	2-3
	<i>NOTE:</i>			<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>16-18</b>
<b>Year 2</b>	BIOL 312 General Ecology	Major	3	BIOL 308 Cell Biology	Major/WI	3
	BIOL 310 Genetics	Major/CAI	3	BIOL 307 Cell Biology Lab or BIOL 311 Genetics Lab**	Major/OI	1
	General Education Course or 350 Organ Chem I*	GE Goal 5-10/Major	3 - 4	CHEM 340 Organic Chemistry Survey or 351 Organ Chem II*	Major	4-5
	General Education Course	GE Goal 5-10	3	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: *Chemistry required course must choose from CHEM 340 OR CHEM 350 and 351.</i>			<i>NOTE: ** BIOL 307 fulfills 1 credit of the 3 credits of the Oral Intensive requirement.</i>		
<b>Second-Year Fall Semester Credit Hour Total</b>			<b>15-16</b>	<b>Second-Year Spring Semester Credit Hour Total</b>		<b>14-15</b>
<b>Year 3</b>	BIOL 322 Human Anatomy	Major	4	BIOL 323 General Physiology	Major	4
	PHYS 201 Physics I or PHYS 221 University Physics I	Major	4	PHYS 202 Physics II or PHYS 222 University Physics II	Major	4
	Allied Health Elective***	Major Elective	3-4	Allied Health Elective***	Major Elective	4
	General Education Course	GE Goal 5-10	3	General Education Course	GE Goal 5-10	3
	<i>NOTE: ***Allied Health Electives require 18 S.H., please see DARS for a full list of courses that meet this requirement. Also choose an Allied Health elective that also meets the Oral Intensive requirement.</i>			<i>NOTE:</i>		
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>14-15</b>	<b>Third-Year Spring Semester Credit Hour Total</b>		<b>15</b>
<b>Year 4</b>	BIOL 499 Capstone Project	Major/WI	3	Allied Health Elective***	Major Elective	3-4
	Allied Health Elective***	Major Elective	3-4	Allied Health Elective***	Major Elective	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	General Education Course	GE Goal 5-10	3
<i>NOTE:</i>			<i>NOTE: To graduate, students <b>must</b> earn a minimum of 120 S.H.</i>			
<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>12-13</b>	<b>Fourth-Year Spring Semester Credit Hour Total</b>		<b>13-14</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.