



## Winona State University Four-Year Program Map

Created on 7/23/2020  
Effective Fall 2020

**Program:** **Biology Life Science Teaching (BLST)**  
**Emphasis (optional):**

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 or 192	GE Goal 1	3-4	CMST 191/192 or ENG 111	GE Goal 1	3-4	
	MATH 140 Applied Calculus or MATH 212 Calculus 1	GE Goal 3/Major	3-4	BIOL 242 Organismal Diversity	GE Goal 3/Major	4	
	BIOL 241 Basics of Life	GE Goal 3/Major	4	CHEM 213 Principles of Chemistry II	GE Goal 3/Major	4	
	CHEM 212 Principles of Chemistry	GE Goal 3/Major	4	HERS 204 Personal and Community Health	Major/PDW	3	
	OR 100 Orientation	Recommended	1				
	NOTE: Math class based on ACT score. Education Admittance Requirements: ENG 111 (B or better), CMST 191 or 192 (B or better), Math (C or better).				NOTE: Take the MTLE, EAS, or achieve qualifying ACT plus writing score (22 composite and 21 ELA).		
<b>First-Year Fall Semester Credit Hour Total</b>			<b>15-17</b>	<b>First-Year Spring Semester Credit Hour Total</b>			<b>14-15</b>
<b>Year 2</b>	BIOL 308 Cell Biology	Major/WI	3	BIOL 310 Genetics	Major/CAI	3	
	BIOL 312 General Ecology	Major	3	BIOL 315 Environmental Biology	Major	3	
	BIOL 313 General Ecology Lab	Major	1	CHEM 340 Organic Chemistry Survey	Major	4	
	SPED 300 Child/Youth w/Exceptionalities*	Major	3	EDFD 401 Human Development and Learning	Major	2	
	General Education Course	GE Goal 5/6	3	EDFD 461 Multicultural Youth, Children, and Families Part I	Major	2	
	General Education Course	GE Goal 7/9	3	General Education Course	GE Goal 6b/8	3	
	NOTE: *Cannot register until you have completed 30 SH. for admission to Department of Education				NOTE: Take the MTLE, EAS, or achieve qualifying ACT plus writing score (22 composite and 21 ELA). EDFD 401 and EDFD 461 must be taken concurrently.		
<b>Second-Year Fall Semester Credit Hour Total</b>			<b>16</b>	<b>Second-Year Spring Semester Credit Hour Total</b>			<b>17</b>
<b>Year 3</b>	Life Science Elective*	Major	4	BIOL 307 Cell Biology Lab or BIOL 311 Genetics Lab	Major/BIOL 307 is OI	1	
	PHYS 201 General Physics I or 221 University Physics I	GE Goal 3/Major	4	Life Science Elective	Major	4	
	EDFD 421 Classroom Management K-12 & 5-12	Major	1	PHYS 202 General Physics II or 222 University Physics II	GE Goal 3/Major	4	
	EDFD 441 Curriculum, Instruction and Assessment K-12 and 5-12	Major	3	EDUC 429 Secondary Reading & Teaching Strategies	Major	3	
	General Education Course	GE Goal 5/6	3	General Education Course	GE Goal 5/10	3	
	NOTE: *Life Science elective must have a total of 12 SH, see a DARS for a full list of courses offered. EDFD 421 and EDFD 441 must be taken concurrently.				NOTE: Apply for student teaching. Students can add Middle Level Science minor with GEOS 215 (4SH), GEOS 235 (4SH) and EDFD 449 (3SH); EDFD 449 and EDUC 429 must be taken concurrently.		
<b>Third-Year Fall Semester Credit Hour Total</b>			<b>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	EDST 465 Student Teaching	Major/OI	12	
	PHYS 311 Science Teaching Methods	Major	4				
	Life Science Elective	Major	4				
	EDUC 459 The Professional Educator	Major	3				
	EDFD 462 Multicultural Youth, Children and Families, Part II	Major	1				
	NOTE: Take MTLE 2 Content and Pedagogy to qualify for licensure. EDUC 459 and EDFD 462 must be taken concurrently.				NOTE: Complete EdTPA during student teaching.		
<b>Fourth-Year Fall Semester Credit Hour Total</b>			<b>15</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.