



Winona State University Four-Year Program Map

Created on 5/24/2017
Effective Fall 2017

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

Fall Semester				Spring Semester			
	Course	Requirement Met	SH	Course	Requirement Met	SH	
Year 1	ENG 111 College Reading and Writing or CMST 191 or 192	GE Goal 1	3-4	CMST 191 Intro to Public Speaking or ENG 111	GE Goal 1	3-4	
	BIOL 241 Basics of Life	GE Goal 3	4	CHEM 213 Principles of Chemistry II	GE Goal 3	4	
	CHEM 212 Principles of Chemistry I	GE Goal 3	4	Mathematics - 120,140, 212, or 213	GE Goal 4	3	
	Mathematics - 120,140, 212, or 213	GE Goal 4	4	BIOL 242 Organismal Diversity	GE Goal 3	4	
	OR 100 Orientation	Recommended	1	Physical Development and Wellness	PDW	2	
	NOTE:			NOTE:			
	First-Year Fall Semester Credit Hour Total			16-17	First-Year Spring Semester Credit Hour Total		16-17
Year 2	BIOL 312 General Ecology	Major	3	BIOL 308 Cell Biology	Major/WI	3	
	STAT 305 Biometry	Major	3	CHEM 340 Org Chem Surv or CHEM 351 Prin of Org Chem II	Major	4-5	
	BIOL 310 Genetics	Major/CAI	3	General Education Course	GE Goal 5-10	3	
	CHEM 350 Principles of Organic Chem I or Gen Ed Course	Major/GE Goal 5-10	3-4	GEOS 235 Earth and Life Through Time	Major	4	
	General Education Course	GE Goal 5-10	3				
	BIOL 313 General Ecology Laboratory	Major	1				
	NOTE: To remain under 120 credits, take 3 courses that meet two goal areas within GOALS 5-10.			NOTE: Students must earn 40 S.H. credits of 300 & 400 Level Courses.			
	Second-Year Fall Semester Credit Hour Total			16-17	Second-Year Spring Semester Credit Hour Total		14-15
Year 3	BIES required BIOL course	Major	3-4	BIES required BIOL course	Major	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	
	BIOL Elective**	Major Elective	3-4	BIOL Elective**	Major Elective	3-4	
	GEOS 309 Watershed Science	Major	4	BIOL 315 Environmental Biology	Major/OI	3	
	NOTE: *Additional Environmental Science Option Courses (7-8 SH) If you choose 7 SH from this group, you must complete 8 SH of Biology elective courses.			NOTE: **Environmental Science Option Electives (7-8 SH). Students are encouraged to take one plant-based course as required or elective course. If you choose 7 SH from this group, you must complete 8 SH of Biology.			
	Third-Year Fall Semester Credit Hour Total			14-16	Third-Year Spring Semester Credit Hour Total		14-15
	Year 4	CHEM 320 Environmental Chemistry*	Major	4	General Education Course	GE Goal 5-10	3
BIOL Elective**		Elective	3-4	General Education Course	GE Goal 5-10	3	
General Education Course		GE Goal 5-10	3	CHEM/GEOS Requirement^	Major	4	
General Education Course		GE Goal 5-10	3	BIOL 499 Capstone Research	Major/WI	3	
NOTE: Talk with advisor about other options if CHEM 320 is not offered. If a MATH class is taken for 3 credits student needs to take another 1 credit course.			NOTE: ^See DARS for a full list of courses offered for CHEM/GEOS electives.				
Fourth-Year Fall Semester Credit Hour Total			13-14	Fourth-Year Spring Semester Credit Hour Total		13	

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.