



Winona State University Four-Year Program Map

Created on 10/30/2023
Effective Fall 2023

Program: Physics Teaching (BT PHST)
Emphasis (optional):

Fall Semester				Spring Semester			
	Course	Requirement Met	SH	Course	Requirement Met	SH	
Year 1	CHEM 212 Principles of Chemistry I	GE Goal 3/Major	4	CHEM 213 Principles of Chemistry II	GE Goal 3/Major	4	
	MATH 120 Precalculus	GE Goal 4	4	MATH 212 Calculus I	GE Goal 4/Major	4	
	ENG111 College Rdg/Wrtg or CMST191/2 Speaking	GE Goal 1/Major	3-4	ENG111 College Rdg/Wrtg or CMST191/2 Speaking	GE Goal 1/Major	3-4	
	OR 100 Intro to Higher Education	GE	1	PHYS 221 University Physics I	GE Goal 3/Major	4	
	PHYS 099 The Career Physicist	Major (Recommend)	0	PHYS 231 University Physics IB	Major	1	
	General Education Course (double count)	GE Goal 5/6/7/8/9/10	3	PHYS 099 The Career Physicist	Major (Recommend)	0	
	<i>NOTE: Check for admissions requirements</i>				<i>NOTE: Track admission requirements</i>		
First-Year Fall Semester Credit Hour Total			15-16	First-Year Spring Semester Credit Hour Total			16-17
Year 2	MATH 213 Calculus II	GE Goal 4/Major	4	MATH 313 Differential Equations	Major/CAI	4	
	PHYS 222 University Physics II	GE Goal 3/Major	4	PHYS 340 Modern Physics	Major/WI	4	
	PHYS 232 University Physics IIB	Major	1	PHYS 370 Optics	Major/WI	4	
	SPED 300 Children and Youth with Exceptionalities	Major	3	EDFD 401 Human Dev/Learn: K-12 & 5-12	Major	2	
	HERS 204 Personal & Community Health	Major/PDW	3	EDFD 461 Multicultural Youth, Children & Families	Major	2	
	General Education Course (double count)	GE Goal 5/6/7/8/9/10	3				
	<i>NOTE: Apply for admission to Teacher Education Program. See admissions requirements. For WI licensure, take BIOL104 which also covers Goals 8 and 10</i>				<i>NOTE: EDFD 401 and 461 must be taken concurrently</i>		
Second-Year Fall Semester Credit Hour Total			18	Second-Year Spring Semester Credit Hour Total			16
Year 3	CHEM 311 Science Teaching Methods	Major	4	PHYS 312 Practical Considerations of Teaching Science	Major	2	
	PHYS 330 Electronics	Major/WI	4	PHYS 345 Thermodynamics & Statistical Physics	Major/CAI	4	
	PHYS 350 Mechanics	Major	4	EDFD 459 Professional Educator	Major	3	
	EDFD 421 Classroom Management: K-12 & 5-12	Major	1	EDFD 462 Multicultural Youth, Children & Families Part II	Major	1	
	EDFD 441 Curriculum, Instruction, & Assessment	Major	3	General Education Course (double count)	GE Goal 5/6/7/8/9/10	3	
	PHYS 099 The Career Physicist	Major (Recommend)	0	General Education Course	GE Goal 5/6/7/8/9/10	3	
				PHYS 099 The Career Physicist	Major (Recommend)	0	
<i>NOTE: EDFD 421 and 441 must be taken concurrently</i>				<i>NOTE: EDFD 459 and 462 must be taken concurrently. Apply for student teaching.</i>			
Third-Year Fall Semester Credit Hour Total			16	Third-Year Spring Semester Credit Hour Total			16
Year 4	EDUC 429 Secondary Reading & Teaching Strategies	Major	3	EDST 465 Student Teaching	Major/OI	12	
	PHYS 320 Computational Physics	Major	2				
	PHYS 460 Undergraduate Research	Major/OI	2				
	General Education Course	GE Goal 5/6/7/8/9/10	3				
	General Education Course	GE Goal 5/6/7/8/9/10	3				
	General Education Course	GE Goal 5/6/7/8/9/10	3				
				<i>NOTE: Apply for Graduation. Finish licensure requirements</i>			
Fourth-Year Fall Semester Credit Hour Total			16	Fourth-Year Spring Semester Credit Hour Total			12

Total Credit Hours (SH): 126

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 full-time, 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 (DARs/uAchieve).

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.