



Winona State University
Four-Year Program Map

Created on 2/1/2018
 Effective Fall 2018

Program: Mathematics Education (BT MTHT)
Emphasis (optional):

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 Introduction to Public Speaking or ENG 111	GE Goal 1	3-4
	MATH 212 Calculus I	GE Goal 4/Major	4	MATH 213 Calculus II	Major/GE Goal 4	4
	MATH 247 Discrete Mathematics	Major	3	MATH 242 Linear Algebra	Major	4
	HERS 204 Personal & Community Health	Major/PDW	3	HIST 151 US History Since 1865/SOC 150 Intro to Sociology	GE Goal 5/7	3
	OR 100 Orientation	Recommended	1	General Education Course	GE Goal 9	3
	<i>NOTE: Pass MTLE 1 Tests. A grade of "B" or better required in MATH 212 and MATH 213. A grade of "C" or better required in all other major courses.</i>			<i>NOTE: *CMST 191 and ENG 111 cannot be taken during the semester in which you apply to the Education Program; you must take it at least one semester before you apply and receive a grade of B or above.</i>		
First-Year Fall Semester Credit Hour Total			14-15	First-Year Spring Semester Credit Hour Total		17-18
Year 2	MATH 327 Foundations of Mathematics	Major/WI	4	STAT 310 Intermediate Statistics	Major	3
	MATH 312 Multivariable Calculus	Major/CAI	4	MATH 337 Probability	Major	3
	STAT 210 Statistics	Major/GE Goal 4	3	EDFD 401 Human Development and Learning: K-12 & 5-12	Major	2
	HIST 120 Western Civilization to 1500	GE Goal 5/6	3	EDFD 461 Multicultural Youth, Children, & Families: Part I	Major	2
	CHEM 100 How Things Work: The World through a Chemical Lens	GE Goal 3/8	3	SPED 300 Children and Youth with Exceptionalities*	Major	3
				General Education Course: Fine Arts	GE Goal 6	3
<i>NOTE: Apply for admission to Department of Education</i>			<i>NOTE: *Not required for admission to the Department of Education, but it is required for the completion of the program. Cannot register until you have completed 30 (S.H.)</i>			
Second-Year Fall Semester Credit Hour Total			17	Second-Year Spring Semester Credit Hour Total		16
Year 3	EDFD 441 Curriculum, Instruction, and Assessment	Major/CAI	3	EDUC 429 Secondary Reading and Teaching Strategies	Major	3
	EDFD 421 Classroom Management: K-12 and 5-12	Major	1	EDFD 449 Middle Level Philosophy, Organiz & Inter Plng	Major/WI	3
	MATH 204 Technology-Based Geometry	Major/CAI	3	MATH 308 Modern Geometry	Major/CAI	4
	MATH 304 Middle School Math Methods	Major	3	MATH 307 History of Mathematics	Major/OI	3
	CHEM 107 Chemistry in Our World with Lab	GE Goal 3/10	4	MATH 347 Number Theory	Major/CA	3
<i>NOTE: A minimum GPA of 2.75 is required in this major</i>			<i>NOTE: Apply for student teaching</i>			
Third-Year Fall Semester Credit Hour Total			14	Third-Year Spring Semester Credit Hour Total		16
Year 4	MATH 302 Chaos Theory	Major	3	EDST 465 Student Teaching - Senior HS K-12 Specialty	Major/OI	12
	EDFD 459 The Professional Educator	Major/WI	3			
	EDFD 462 Multicultural Youth, Children, & Families Part II	Major	1			
	HIST 150 United States History to 1865	GE Goal 5/6	3			
	MATH 306 Teaching Mathematics in the Secondary Schools	Major	3			
<i>NOTE: Take MTLE 2 Content and Pedagogy in order to qualify for licensure</i>			<i>NOTE: Students must earn 40 S.H. credits of 300 & 400 Level Courses.</i>			
Fourth-Year Fall Semester Credit Hour Total			13	Fourth-Year Spring Semester Credit Hour Total		12

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.