WINONA STATE UNIVERSITY

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
STAT 210 Statistics	Major/GE Goal 4	3	MATH 242 Linear Algebra	Major	4
HERS 204 Personal & Community Health	Major/PDW	3	CAST 301 Child Advocacy Studies I	GE Goal 5/9	3
OR 100 Orientation	Recommended	1	STAT 310 Intermediate Statistics	Major	3
NOTE: A grade of "C" or better required in all other major courses. *Have a plan to complete 15 hours of clinical field experience to qualify for admission to the Education Program.*			*NOTE: *CMST 191 and ENG 111 cannot be taken during the semester in which you apply to the Education Program; you must take them at least one semester before you apply and receive a grade of B or above.*		
First-Year Fall Semester Credit Hour Total		**14-15**	**First-Year Spring Semester Credit Hour Total**		**17-18**
Year 2 MATH 307 History of Mathematics	Major/GE Goal 7	3	MATH 327 Foundations of Mathematics	Major/WI	4
MATH 312 Multivariable Calculus	Major/CAI	4	MATH 337 Probability	Major	3
MATH 247 Discrete Mathematics	Major	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
GEP Goal Area 3 Course	GE Goal 3	3	SPED 300 Children and Youth with Exceptionalities*	Major	3
			General Education Course: Fine Arts	GE Goal 6	3
NOTE: Apply for admission to Department of Education			*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.)*		
Second-Year Fall Semester Credit Hour Total		**16**	**Second-Year Spring Semester Credit Hour Total**		**17**
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 347 Number Theory	Major/CA	3	MATH 306 Problem Solving in the Math Classroom	Major	3
CHEM 107 Chemistry in Our World with Lab	GE Goal 3/10	4	GEP Goal Area 8 Course	GE Goal 8	3
NOTE: Take MTLE 2 Content Exams (after Number Theory and Probability)			*NOTE: Apply for student teaching*		
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 304 Middle/Secondary Math Methods	Major	3			
NOTE: A minimum GPA of 2.75 is required in this major *Take MTLE 2 Pedagogy Exams to qualify for licensure.*			*NOTE: Students must earn 40 S.H. credits of 300 & 400 Level Courses.*		
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