

MATH MINOR CHECKLIST

A minor in mathematics requires at least 19 semester hours of mathematics content courses including 9 hours of upper-division courses 300-level and above taken in residence at WSU. Courses required for the minor may not be taken pass/fail and a minimum 2.0 GPA is required in all courses taken for the minor. **Math 303, 330, 351, 398, 425, 431, and 497 do not count towards the minor. Grad level courses can be used with prior approval, excluding 533 and 590-level seminars.**

Per academic regulation 54, transfer credit does not count toward the required nine credits at the 300-400 level.

Course offerings are every semester including Summer if not specified.

Complete 2 courses from Group 1:

Course Number	Course Title	Credit Hours
MATH 171	[QUAN] Calculus I	4
Sub MATH 140 [QUAN] or MATH 202 [QUAN] with permission		4 or 3
MATH 172/182	Calculus II OR Honors(Fall)	4

Complete 1 course from Group 2:

Course Number	Course Title	Credit Hours
MATH 220/230	Introductory Linear Algebra OR Honors(Sp)	2
MATH 273/283	Calculus III OR Honors(Sp)	2

Complete 3 courses from Group 3:

Course Number	Course Title	Credit Hours
MATH 300	Mathematical Computing (Fall, Sum)	
MATH 301	Introduction to Mathematical Reasoning	3
MATH 302	Theory of Numbers (Odd years Sp)	3
MATH 315	Differential Equations	3
MATH 320	[M] Elementary Modern Algebra (Sp)	3
MATH 325	<i>Elementary Combinatorics (no longer offered)</i>	3
MATH/BIOLOGY 340	Introduction to Mathematical Biology (Sp)	3
STAT 360 OR STAT 370 OR STAT 412	Probability and Statistics OR Introductory Statistics for Engineers OR Statistical Methods in Research	3
MATH 364	Principles of Optimization (Fall, Sp)	3
MATH 375	<i>Vector Analysis (no longer offered)</i>	3
MATH 401	[M] Introduction to Analysis I (Fall)	3
MATH 402	[M] Introduction to Analysis II (Sp)	3
MATH 403	Geometry for Secondary Teachers (Fall)	3
MATH 405	Introduction to Financial Mathematics (Fall)	3
MATH 415	Intermediate Differential Equations (Sp)	3
MATH 416	Simulation Methods (Fall)	3
STAT 419	Introduction to Multivariate Statistics (Sp)	3
MATH 420	Linear Algebra (Fall)	3
MATH 421	[M] Algebraic Structures (Sp)	3
STAT 423	Statistical Methods for Engineers and Scientists (Sp)	3
MATH 432	[CAPS] Mathematics for College and Secondary Teachers (Sp)	3
STAT 435	[M] Statistical Modeling for Data Analytics (Fall)	3
STAT 437	Statistical Analysis and Learning (Sp)	3
MATH 440	Applied Mathematics I	3
MATH 441	Applied Mathematics II (Odd years Sp)	3
STAT 443	Applied Probability (Fall)	3
STAT 446	Statistical Applications in Insurance (Even years Sp)	3
STAT 447	Introduction to Time Series Analysis (Odd years Sp)	3
MATH 448	Numerical Analysis	3
MATH/CPT_S 453	Graph Theory (Fall)	3
STAT 456	Introduction to Statistical Theory (Sp)	3
MATH 464	[CAPS] Linear Optimization (Sp)	3
MATH 466	Optimization in Networks (Even years Fall)	3
MATH 486	Mathematical Modeling in the Natural Science (Even years Fall)	3

Once you have completed 60 semester hours, have certified in a major, and have completed the requirements from Group 1 and Group 2 you may certify for the minor. Please send an email to info@math.wsu.edu to certify- put "Math Minor" in the subject and be sure to include your name, WSU ID number, and the courses you have already completed in the body of the email. Requests must be received at least one month prior to your graduation date.