

# MATH MINOR CHECKLIST

A minor in mathematics requires at least 19 semester hours of math courses including 171, 172, and one of 220 or 273. An additional 9 semester hours of the total must be upper-division mathematics content courses 300-level and above taken in residence at WSU. At least a 2.0 GPA average in WSU math courses must be maintained.

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

### Complete 2 courses from Group 1:

Course Number	Course Description	Credit Hours
MATH 171 (sub 140 with permission)	Calculus I	4
MATH 172	Calculus II	4

### Complete 1 course from Group 2:

Course Number	Course Description	Credit Hours
MATH 220	Introductory Linear Algebra	2
MATH 273	Calculus III	2

### Complete 3 courses from Group 3:

Course Number	Course Description	Credit Hours
MATH 300	Mathematical Computing	
MATH 301	Introduction to Mathematical Reasoning	3
MATH 302	Theory of Numbers	3
MATH 315	Differential Equations	3
MATH 320	Elementary Modern Algebra	3
MATH 325	Elementary Combinatorics	3
MATH/BIOLOGY 340	Introduction to Mathematical Biology	3
STAT 360, STAT 370 OR STAT 412	Probability and Statistics, Introductory Statistics for Engineers, OR Statistical Methods in Research	3
MATH 364	Principles of Optimization	3
MATH 375	Vector Analysis	3
MATH 401	Intro to Math Analysis I	3
MATH 402	Intro to Math Analysis II	3
MATH 403	Geometry for Secondary Teachers	3
MATH 405	Introduction to Financial Mathematics	3
MATH 415	Intermediate Differential Equations	3
MATH 416	Simulation	3
MATH 420	Linear Algebra	3
MATH 421	Algebraic Structures	3
STAT 423	Statistical Methods for Engineers and Scientists	3
MATH 432	Mathematics for College and Secondary Teachers	3
MATH 440	Applied Mathematics I	3
MATH 441	Applied Mathematics II	3
STAT 443	Applied Probability	3
MATH 446	Statistical Applications in Insurance	3
MATH 447	Introduction to Time Series Analysis	3
MATH 448	Numerical Analysis	3
MATH/CPT S 453	Graph Theory	3
STAT 456	Introduction to Statistical Theory	3
MATH 464	Linear Optimization	3
MATH 466	Optimization in Networks	3
MATH 486	Mathematical Modeling in the Natural Science	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. If you would like to be certified for a minor in mathematics, please send an email to [info@math.wsu.edu](mailto:info@math.wsu.edu) with your request. Please 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.