

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. Graduate 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.

Complete 2 courses from Group 1:

Course Number	Course Title	Offered	Credit Hours
MATH 171	[QUAN] Calculus I	F, Sp, Su	4
Sub MATH 140 [QUAN] or MATH 202 [QUAN] with permission			4 or 3
MATH 172	Calculus II	F, Sp, Su	4
OR MATH 182	Honors Calculus II	F	4

Complete 1 course from Group 2:

Course Number	Course Title	Offered	Credit Hours
MATH 220	Introductory Linear Algebra	F, Sp, Su	2
OR MATH 230	Honors Introductory Linear Algebra	Sp	3
MATH 273	Calculus III	F, Sp, Su	2
OR MATH 283	Honors Calculus III	Sp	2

Complete 3 courses from Group 3:

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

Semester key: F= Fall; Sp= Spring; Su= Summer; E= Even years; O= Odd years

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.

Certification requests must be received at least one month prior to your graduation date.