

Purdue University  
College of Science

# MINOR IN MATHEMATICS (MATH)

## PRE-REQUISITE COURSES FOR MATH MINOR

To complete the required courses for the Mathematics minor, you will need to first complete the following pre-requisite courses [by completing the course or establishing credit]. These courses are not part of the Mathematics minor.

_____	MA 16100 or MA 16500	Plane Analytic Geometry and Calculus I	4-5 credits
_____	MA 16200 or MA 16600	Plane Analytic Geometry and Calculus II	4-5 credits
_____	MA 26100	Multivariate Calculus	4 credits

The Mathematics Minor provides a strong background in mathematics for students majoring in some other discipline. To qualify for the minor, the following classes must be completed with a C- or better.

**ALL COURSES FOR THIS MINOR LISTED BELOW MUST BE TAKEN AT PURDUE UNIVERSITY**

To obtain a minor in Mathematics, the following courses must be completed.

No substitutions are allowed. A course can only be used in one area.

3 credits from AREA 1

3 credits from AREA 2

6-7 credits from AREA 3

TOTAL CREDITS FOR MINOR: 12-13 credits

### AREA 1: CHOOSE ONE COURSE

_____	MA 35100	Elementary Linear Algebra	3 credits
_____	MA 51100	Linear Algebra with Applications	3 credits
_____	MA 26500*	Linear Algebra <b>[must be completed with a B- or better]</b>	3 credits

### AREA 2: CHOOSE ONE COURSE

_____	MA 45300	Elements of Algebra	3 credits
_____	MA 45000	Algebra (Honors)	3 credits
_____	MA 34100	Foundations of Analysis	3 credits
_____	MA 44000	Real Analysis (Honors)	3 credits

### AREA 3: CHOOSE TWO COURSES

COURSE NUMBER	COURSE TITLE	CREDIT HOURS
_____	_____	_____
_____	_____	_____

Area 3 Choices:

- Analysis:** MA 30100, 34100, 36200 or 51000, 42500 or 52500, 44000
- Probability:** MA/STAT 41600
- Algebra and Discrete Mathematics:** MA 37500, 38500, 45300 or 45000, 45401
- Linear Algebra:** MA 35300
- Differential Equations:** MA 36600\*\* or 30300 or 30400 [only one], 42800, 52000, 52300

\*For many students, MA 26500 may not be adequate preparation for upper division mathematics classes. Students planning a Mathematics Minor should consider taking MA 35100 instead. Only students with a very firm grasp of the MA 26500 material [and a grade of B- or better] should contemplate taking MA 35300 without MA 35100

\*\* MA 26600 with at least a "B-" can be used in place of MA 36600 [only one of MA 26600/36600/30300/or 30400 can be used in Area 3].

MA 26200 will not be accepted for the minor.