

Qualifying Exam Requirements for the M.A. in Mathematics

For the M.A. degree in Mathematics, students have two options:

Option I. Write a Masters thesis and satisfy the University requirements.

Option II. (a) Receive at least an MA Pass on two PhD written exams from the following list, and write a scholarly paper (as required by the Graduate School):

Algebra (Math 600, 601)
Analysis (Math 630, 660)
Geometry (Math 730, 740)
Probability (Stat 600, 601)
Statistics (Stat 700, 701)

A student in pure mathematics can use at most one of Probability and Statistics to satisfy the exam requirement.

Note that students are required to take the exams that are written at the PhD level and receive a MA Pass. No separate MA-only exams will be written.

(b) In addition to the Qualifying Exams, students using Option II must take three additional semesters of courses from the following list. Courses with grades less than B cannot be included (for example, B– is *not* allowed).

Math 600, 601 (Algebra)
Math 630, 660 (Analysis)
Math 730, 740 (Geometry)
Stat 600, 601 (Probability)
Stat 700, 701 (Statistics)
Math 634 (Harmonic Analysis)
Math 642 (Dynamical Systems I)
Math 712, Math 713 (Logic)
Math 734 (Algebraic Topology)
AMSC 666, AMSC 667 (Numerical Analysis)
Math 631 (Real Analysis)
Math 670 (ODE)
Math 673, Math 674 (PDE).

The three semesters are not required to be in the same sequence of courses. For example, Math 730, Math 670, and AMSC 666 would be acceptable. These three semester-long courses must be distinct from the ones supporting the qualifying exams. For example, if the Algebra Exam is used as one of the Qualifying Exams, then neither Math 600 nor Math 601 can be used for the three-course requirement.
