15 January 2025 (Bueler)

Comprehensive Exams for MS students in Mathematics

These exams consist of **3 written exams, each allotted two hours**, to be completed over 3 consecutive days within one week. Dates and times will be determined in consultation with students, based on response to this form.

The subjects covered must include **at least two** of the four core courses (Math 631 Algebra I, Math 641 Real Analysis, Math 645 Complex Analysis, Math 651 Topology). The third subject **may** be chosen from some other 600-level lecture or directed-study course in mathematics. The choice of exam subjects requires the approval of the student's committee. It is preferred that none of the exams cover courses in which the student is currently enrolled, but the committee has discretion on this. For each subject, two faculty members will jointly prepare and grade each exam. For non-core subjects, the student's committee must facilitate the preparation and grading of the exam.

The exams will be at most as hard as the written final for the corresponding courses. Students will be given some choice of problems. Certain problems at a prerequisite level to the graduate course in question are expected.

A student who does not pass two or three of the exams must wait at least one semester, and then retake the entire comprehensive examination (3 exams) again. If a student passes exactly two of the three parts, one try to retake the remaining part is permitted, preferably before the start of the following semester; if the student fails that retake then the entire examination must be retaken.

Only one retake of the entire examination is allowed.

Please complete the form below.

Student Name:_____

Semester of first enrollment in the MS Math program:_____

Do you plan to take the Comprehensive Exams in Spring/Summer 2025?:
    YES   NO

Signature of your Committee Chair (*REQUIRED either way!*):

_____

If YES above, complete the following.

Preferred dates (three consecutive days) for Exams: _____

Core Subject 1:_____

Core Subject 2:_____

Other Subject:_____

    Description of third exam if not core:_____

    _____