

**Track in Applied Mathematics:** The entrance requirements are MATH 405, 407, 419, 421, and 452, or their equivalents. Students must take two of MATH 502, 505, 519, or 507. For their Qualifying Exam they must take MATH 501 or 519 and two of MATH 502, 505, 507, 555, 574, 575, or 580. They should then write their dissertation in the area of Applied Mathematics.

**Track in Statistics:** The entrance requirements are MATH 419, 421, 452, and 483, or their equivalents. Students must take MATH 580 and 581. For their Qualifying Exam they must take MATH 580 and at least one of MATH 501, 519, or 581, as well as one of MATH 584 or 575 if needed. They should then write their dissertation in the area of Statistics.

**Track in Computational Mathematics:** The entrance requirements are MATH 419, 421, 452, 449, and CS 451, or their equivalents. Students must take MATH 501, 519, 549, and 574. For their Qualifying Exam they must take CS 555, one of MATH 501 or 519, and one other 500-level MATH course (preferably MATH 549, 574, or 575). For their preliminary examination, computer science should be a minor area. They should then write their dissertation in the area of Computational Mathematics.

**Track in Pure Mathematics:** The entrance requirements are MATH 419, 421, 430, 452, and 455, or their equivalents. Students must take MATH 501, 502, 505, 519, 555, and 574 and one of MATH 520, 525, 526, 530, or 549. For their Qualifying Exam they must take at least two of MATH 501, 519, 530, or 555 and the remainder, if needed, from MATH 502, 505, 520, 525, 526, 574, or 549. They should then write their dissertation in the area of Pure Mathematics.