DA in Mathematics

Admission Requirements

Transcripts of all undergraduate and any graduate work must be submitted. In addition to the Graduate College minimum requirements, applicants must meet the following program requirements:

- **Prior Degrees** MS students in the department who intend to continue on to the doctorate must satisfy the department’s master’s degree requirements and be recommended by the department for further work. Applicants to the DA Program who have an MST degree should complete the equivalent of the department’s MS program.

- **Grade Point Average** At least 3.00/4.00 for the final 60 semester hours (90 quarter hours) of undergraduate study, and an average of 3.00 in all mathematics courses beyond calculus.

- **Tests Required** GRE General Exam is required and the GRE Subject Test in Mathematics.

- **Minimum English Competency Test Score**
  - TOEFL 100, with subscores of Reading 19, Listening 17, Speaking 20, and Writing 21 (iBT Test); 60, with subscores of Reading 19, Listening 17, Writing 21 (revised Paper-Delivered Test), OR,
  - IELTS 7.0, with subscores of 7.0 for all four subscores, OR,
  - PTE-Academic 54, with subscores of Reading 51, Listening 47, Speaking 53, and Writing 56.

- **Letters of Recommendation** Three required from persons familiar with the applicant’s academic work.

- **Personal Statement** Required.

Degree Requirements

In addition to the Graduate College minimum requirements, students must meet the following program requirements:

- **Minimum Semester Hours Required** 96 from the baccalaureate.

- **Course Work** At least 40 hours must be in mathematics, including 24 semester hours of regular 500-level courses. Mathematics courses must be chosen so that the areas of computer science, differential equations, geometry, logic, and probability and statistics are all represented.

<table>
<thead>
<tr>
<th>Course</th>
<th>Title</th>
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<tbody>
<tr>
<td>MATH 417</td>
<td>Complex Analysis with Applications</td>
</tr>
<tr>
<td>MATH 445</td>
<td>Introduction to Topology I</td>
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<tr>
<td>MATH 446</td>
<td>Introduction to Topology II</td>
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<tr>
<td>MATH 516</td>
<td>Second Course in Abstract Algebra I</td>
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<tr>
<td>MATH 517</td>
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<td>MATH 533</td>
<td>Real Analysis I</td>
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<td>MATH 534</td>
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<tr>
<td>MATH 591</td>
<td>Seminar on Mathematics Curricula</td>
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</tbody>
</table>

Education and Math Education

Twelve hours including:

- MATH 592 Seminar on Mathematics: Philosophy and Methodology

Eight hours of graduate-level courses in an area of mathematics or a related science

**Electives**

Restricted to math and/or science

**Examinations** Students should pass the department’s master’s examination within one year of completion of 24 semester hours. Students who already have a master’s degree upon entering the program must pass the examination within one year of entrance.

- **Preliminary Examination**: Required.

- **Dissertation** Required. Students must earn at least 20 hours in MATH 599.

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a Related sciences include areas such as physics, philosophy, history of science, or another science approved by the department.
b Courses in economics and statistical methods in psychology and education may, under certain conditions, be selected as electives.