### Applied Mathematics, MS

**for the Master of Science in Applied Mathematics**

**Department Chair:** Jeremy Tyson  
**Director of Graduate Studies:** Lee DeVille

**Overview of Admissions & Requirements:**  
Department website: [http://www.math.illinois.edu](http://www.math.illinois.edu)  
Program website: [https://math.illinois.edu/admissions/graduate-program-mathematics-admissions/#MS-AppliedMath](https://math.illinois.edu/admissions/graduate-program-mathematics-admissions/#MS-AppliedMath)  
Department faculty: [https://math.illinois.edu/research/faculty-research/](https://math.illinois.edu/research/faculty-research/) and [https://math.illinois.edu/directory/faculty-by-type/](https://math.illinois.edu/directory/faculty-by-type/)  
College website: [https://las.illinois.edu/](https://las.illinois.edu/)  
Department office: 273 Altgeld Hall, 1409 West Green Street, Urbana, IL 61801  
Phone: (217) 333-5749  
Email: math-grad@illinois.edu

The MS in Applied Mathematics program is intended for students wishing to pursue a career in applied mathematics. It is also suitable as preparation for a PhD program in Applied Mathematics. It is rare for students to enter the PhD program at the University of Illinois after finishing this degree. Students may choose one of three tracks: Optimization and Algorithms, Applications to the Sciences, or Computational Science and Engineering. This degree program requires 32 credit hours and can normally be completed in 18 months. A master’s thesis is optional. Applications are accepted for Fall semester. Financial aid is generally not available.

### Graduate Degree Programs in Mathematics

**Actuarial Science, MS** ([http://catalog.illinois.edu/graduate/las/actuarial-science-ms/](http://catalog.illinois.edu/graduate/las/actuarial-science-ms/))  
**Applied Mathematics, MS** (p. 1)  
**Mathematics, MS** ([http://catalog.illinois.edu/graduate/las/mathematics-ms/](http://catalog.illinois.edu/graduate/las/mathematics-ms/))  
**Mathematics, PhD** ([http://catalog.illinois.edu/graduate/las/mathematics-phd/](http://catalog.illinois.edu/graduate/las/mathematics-phd/))

**Optional Concentrations:**  
- Actuarial Science & Risk Analytics ([http://catalog.illinois.edu/graduate/las/mathematics-phd/actuarial-science-risk-analytics/](http://catalog.illinois.edu/graduate/las/mathematics-phd/actuarial-science-risk-analytics/))  
- Computational Science and Engineering ([http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/](http://catalog.illinois.edu/graduate/engineering/concentration/computational-science-engineering/))  
- Teaching of Mathematics, MS ([http://catalog.illinois.edu/graduate/las/teaching-mathematics-ms/](http://catalog.illinois.edu/graduate/las/teaching-mathematics-ms/))

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Students pursuing the M.S. in Applied Mathematics have the opportunity to customize their studies the following ways:

- Through the Actuarial Science Concentration ([http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-conc-actuarial-science/](http://catalog.illinois.edu/graduate/graduate-majors/math/ms-applied-math-conc-actuarial-science/))
- By completing the coursework for the option in Optimization and Algorithms ([http://go.math.illinois.edu/GraduateGuide/](http://go.math.illinois.edu/GraduateGuide/))
- By completing the coursework for the option in Applications to the Sciences ([http://go.math.illinois.edu/GraduateGuide/](http://go.math.illinois.edu/GraduateGuide/))
- By completing the coursework for the option in Computational Science and Engineering ([http://go.math.illinois.edu/GraduateGuide/](http://go.math.illinois.edu/GraduateGuide/))

Additional details are available in the Department of Mathematics Graduate Guide ([https://files.webservices.illinois.edu/7917/GraduateGuide18-19.pdf](https://files.webservices.illinois.edu/7917/GraduateGuide18-19.pdf)).

### Degree Requirements

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<thead>
<tr>
<th>Code</th>
<th>Title</th>
<th>Hours</th>
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<tbody>
<tr>
<td>MATH 405, MATH 406, MATH 415, MATH 444, and MATH 499</td>
<td>cannot be counted toward this graduate degree</td>
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<tr>
<td>Minimum 500-level hours required overall</td>
<td>12 (8 in Mathematics)</td>
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**Other Requirements**

1. For additional details and requirements refer to the department’s Guide to Graduate Studies ([https://files.webservices.illinois.edu/7917/GraduateGuide18-19.pdf](https://files.webservices.illinois.edu/7917/GraduateGuide18-19.pdf)) and the Graduate College Handbook ([https://grad.illinois.edu/gradhandbook/](https://grad.illinois.edu/gradhandbook/)).

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Information listed in this catalog is current as of 02/2021