Undergraduate Major: Applied Mathematics

What is Applied Mathematics?

Applied mathematics incorporates interdisciplinary study in the physical, engineering, and biological sciences. We provide dynamic and engaging training that is especially strong in mathematical methods (scientific computing, data science, etc.) and in application areas (mathematical biology, health sciences, nonlinear waves and coherent structures, mathematical finance, data analysis and climate modeling).

Why study Applied Mathematics?

- Our department is the top ranked Applied Mathematics Department in the country, according to The National Research Council, tied with Princeton for #1.
- Our students learn to apply math to problems that society is facing today in the physical, engineering, biological and health sciences, industry, and many additional application areas.
- Our program prepares students for dynamic careers in a variety of fields.

What programs do we offer for undergraduates?

- **Degree Options:** BS in Applied Mathematics, BS in Computational Finance & Risk Management; minor in Applied Mathematics, minor in Computational Finance.
- **Scholarships & Financial Aid:** students can find a number of financial aid opportunities through the Student Financial Aid Office. With the Husky Promise, the UW guarantees to cover the full cost of tuition and standard fees for qualified students who otherwise could not afford to attend.
- **Career Preparation:** students will experience a broad curriculum to learn high level mathematics in preparation for dynamic careers in a variety of fields and to become leaders in a society that exhibits increasing demands for competence in communication, computation, and quantitative analysis.

How do you major in Applied Mathematics?

Please visit our admissions page for important details such as the application procedure and deadlines, as well as dates for upcoming info sessions!

Degree Requirements:

Minimum 55 credits:

- **Mathematics:** MATH 124, MATH 125, MATH 126 (or MATH 134, MATH 135, MATH 136) (15 credits)
- **Computing:** AMATH 301 (4 credits)
- **Introductory Applied Mathematics:** AMATH 351, AMATH 352, AMATH 353 (9 credits)
- **Electives** (minimum 27 credits)
  
  (A) Methods of Applied Mathematics: Minimum two courses from AMATH 401, AMATH 402, AMATH 403
  
  (B) Modeling: Minimum two courses from AMATH 342, AMATH 383, AMATH 422, AMATH 423
(C) Computing and Data Sciences: Minimum two courses from AMATH 481 (Scientific Computing), AMATH 482 (Data Analysis), AMATH 483 (High Performance Computing), CFRM 410, CFRM 420 (Data Analysis and Stat.), CFRM 421 (Machine Learning)

Additional courses from (A), (B), and (C) above to bring the elective minimum total to 27 credits

General Education requirements for College of Arts and Sciences students may be found here.

Minimum 2.00 cumulative GPA in courses applied to the major.

Additional information for prospective students
- Admissions: Incoming Freshmen, Transfers, International Students
- Additional policies, useful links, and resources may be found here!

How do you meet with an Applied Mathematics advisor?
- Contact an advisor

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