Our faculty and students explore applications in the fields of neuroscience, medical imaging, evolutionary biology, mathematical ecology, oceanography, physics, mathematical finance, economics and more using computational and analytical methods. Whatever current scientific area is of interests to you, applied mathematics offers you the tools to use the mathematical framework underlying that area to improve our understanding of specific problems.

**Graduate Programs**

We offer a Ph.D. in Applied Mathematics and a Master of Science in Applied Mathematics or Computational Finance. We also offer online master's degrees in Applied Mathematics or Computational Finance. See our [Graduate Programs section](https://amath.washington.edu/programs-courses/graduate-programs) to learn more.

**Undergraduate Programs**

We offer a B.S. in [Applied Mathematics](https://amath.washington.edu/programs-courses/undergraduate-programs) and a B.S. in [Computational Finance & Risk Management](https://amath.washington.edu/programs-courses/undergraduate-programs/computational-finance-risk-management). Additionally, we offer a [minor in Applied Mathematics](https://amath.washington.edu/programs-courses/undergraduate-programs/minors/applied-mathematics) and a [minor in Computational Finance](https://amath.washington.edu/programs-courses/undergraduate-programs/minors/computational-finance).

**Certificates**

We offer online certificates in Scientific Computing, Computational Finance, and Quantitative Fundamentals of Computational Finance. See [Certificates](https://amath.washington.edu/programs-courses/certificates) to learn more.

**Courses**

Every quarter we offer courses on a wide range of topics, including scientific computing, differential equations, mathematical modeling, computational finance and risk management, and much more. See the [Courses section](https://amath.washington.edu/programs-courses/courses) to learn about upcoming and past courses.

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