What does your program have to offer me?
Our students graduate with the knowledge, the experience, and the ability to be leaders in a society that exhibits increasing demands for competence in communication, computation, and quantitative analysis. Applied mathematics encompasses some of the most diverse and interdisciplinary research in the physical, engineering, and biological sciences, which is what is needed in order to address the problems that we face today and in our future. We offer a broad curriculum with graduate courses in applied mathematics to provide students with the tools they need to succeed.

What will I be able to do with my MS degree in AMATH?
Many of our students go on to careers in industry at places such as Boeing, Microsoft, or biotechnology companies. Furthermore, some students use their MS degree to become instructors at community colleges or universities. Also, some students choose to apply to PhD programs with UW AMATH, other UW departments, or at other prestigious universities. Career resources, as well as a look at student pathways after graduation, may be found [here](https://amath.washington.edu/graduate/faq).
What are the deadlines for applications?
January 15th for international applicants; January 15th for domestic applicants.

When are applications reviewed?
The admissions committee will begin reviewing applications as early as December 1st, but everyone who applies by the deadline receives full consideration.

Can I apply for any quarter?
We only offer autumn admission.

Do I need to take the GRE general exam?
Yes; applicants are required to submit verbal, analytical and quantitative scores from the general Graduate Record Examination (GRE). However, if you have earned a STEM graduate degree from an accredited institution in the United States, you may be exempt from the GRE requirement. All others should submit general GRE scores.

How do I submit my official GRE general scores?
Request that scores be sent to the UW Office of Graduate Admissions from Educational Testing Services (ETS) either during or after you take the test, using code 4854 (University of Washington).

What is the minimum score you consider in the GRE?
We have no minimum. We consider your application as a whole.

What grade point average do you look for in potential MS students?
We would like to see students able to keep above a 3.2 out of 4.0 scale. We especially look at grades in upper level mathematics courses, such as our prerequisite courses.

I speak excellent English, even though it is not my native language. Do I need to take an English proficiency test?
Yes, as this is a graduate school requirement. Details regarding the English Proficiency rules are located in the graduate school's Memorandum #8.

What is the minimum score on the TOEFL needed for admissions?
You can find required scores on the graduate school's Memorandum #8, as well as other methods for demonstrating proof of English proficiency.

What do I do if I am still finishing my undergraduate degree when I apply?
Many students apply while finishing up their undergraduate degree. Please make it clear what coursework is still in process on the course information form in the online application.

How many students do you accept in the MS program?
For Autumn 2019, we admitted around 25 new students. We generally see over 100 applicants.

Are prerequisite courses required?
Yes. They are the foundation for our coursework. The three prerequisite courses for the degree:

- Beginning Scientific Computing (AMATH 301) or equivalent course work
- Introduction to Differential Equations and Applications (AMATH 351) or equivalent course work
- Applied Linear Algebra and Numerical Analysis (AMATH 352) or equivalent course work
  Please read our course catalog for course descriptions.

Do the prerequisite courses need to be completed before I begin my graduate degree coursework?
Yes, and you may email gpa (at) amath.washington.edu with specific questions.

Will I be offered a teaching or research assistantship? Are fellowships available?
Typically, each year a few students are admitted with funding and that information will be included in the admissions offer. For other admitted students, we do not guarantee funding; however, if we have available assistantships (RA/TA/SA) we will consider our MS students. We also hire a few hourly appointments each quarter, which do not come with a tuition waiver but are paid at $18/hour. Since a position is not guaranteed, we recommend you budget accordingly. You are also welcome to apply for student positions through the UW Hires website and Husky Handshake.

**How do I pay for graduate school?**
The UW Graduate School provides a helpful guide which introduces several types of financial assistance available to graduate students.

**How much can I expect to pay?**
Tuition rates do change frequently. You can find information regarding tuition at the Office of Planning and Budgeting website. This lists costs for residents (of Washington) and non-residents. We are a Graduate Tier 1 program. For information on estimating costs, please visit the financial aid cost estimate page. International students can find cost estimates on the graduate school website.

**What GPA am I expected to maintain?**
In order to be a candidate for the MS degree, you must maintain an overall GPA of 3.2 out of 4.0. Individual courses that are graded 2.7 and lower must be retaken.

**How many courses should I take each quarter?**
Students in the campus program should plan to attend full time, specifically taking 3 classes (12-15 credits) per quarter. The program is typically finished in one academic year.

**What courses do I need to take?**
Students are required to take all three of AMATH 567 (Applied Analysis), AMATH 568 (Ordinary Differential Equations) and AMATH 569 (Partial Differential Equations). Substitution of any of these courses with AMATH 501, AMATH 502 and AMATH 503, respectively, is permitted. Either AMATH 581 (Scientific Computation) or AMATH 584 (Numerical Analysis 1) is also required. Students need to take a total of 24 credits in AMATH courses and a total of 9 classes. Further degree requirements are found on the MS program page.

**Do students take courses in other fields? What fields do they take courses in?**
Yes. Students take graduate level courses in pure mathematics, statistics, computer science, oceanography, engineering (many different fields), biochemistry, biology and many other fields.

**Is there a way to transition from the MS to the PhD program?**
Students must notify the graduate program coordinator by the application deadline of the year they wish to start in the PhD program. Students’ files will be evaluated with those of the external PhD applicants and admissions is competitive. Over the past 5 years, 12 students in the campus MS program have entered the PhD program. These students were admitted and are currently working towards a PhD in applied mathematics.

**How does one satisfy the independent study option?**
Students should contact faculty members whose research they are interested in, and come to a mutual understanding on how the independent study requirement can be satisfied. Students could read book chapters surpassing course material, or research papers, or could work on some original research. Students register for AMATH 600 using a faculty code. Typically four credits are taken, spread out over two quarters.

**What are the journal clubs?**
Journal clubs vary according to each topic and club. Some journal clubs are organized by faculty. Generally, it is a way for students to further explore a topic of interest (such as fluid dynamics, numerical analysis, or mathematical biology) by reading journal articles and/or presenting findings to your group. Please contact the faculty or student in charge of each club to find out further details.

**Ph.D. Program FAQs**
What funding can you offer me?
Financial support for Doctoral studies is limited to five years after admission to the Ph.D. program in the Department of Applied Mathematics. Support for an additional period may be granted upon approval of a petition, endorsed by the student's thesis supervisor, to the Graduate Program Coordinator.

What research opportunities does your program offer?
Our faculty research page can give you an idea of what opportunities are available, as will our current PhD students' pages. We offer many different opportunities within the AMATH department, and with our adjuncts in other departments.

How many students do you accept in the PhD program?
Out of the 300 applications we normally review, we make an average of 15 offers per year. We usually have an average incoming class of 8 students.

What are the deadlines for applications?
January 15th for international applicants; January 15th for domestic applicants.

When are applications reviewed?
The admissions committee will begin reviewing applications as early as December 1st, but everyone who applies by the deadline receives full consideration for admission and support.

I am interested in a multidisciplinary degree. Can I do my research with a faculty member from another department?
Certainly; however, we do suggest that you discuss your plans with AMATH faculty.

How do I apply for funding?
When you fill out your application, you will fill out the Fellowship and Assistantship application so that we determine eligibility for different forms of support. Some students enter our department with external fellowships; most students continue to apply for fellowships during their program.

How long is this degree?
On average, students take 5 years to finish their PhD in AMATH.

Where do doctoral students find positions after graduation?
Career resources, as well as a look at student pathways after graduation, may be found here.

What GPA am I expected to maintain?
We expect students to maintain a 3.4/4.0 during their program.

How long do I take classes?
Generally, students take courses for the first two years of their program.

What classes do I need to take?
- Two of the following three sequences are required to be taken within the first year in the PhD program:
  - AMATH 561, 562, 563;
  - AMATH 567, 568, 569;
  - AMATH 581 or 584, and 585, 586;
  - AMATH 600 (Reading during the first five quarters, including the first summer) (2×2 credits, each with a different faculty member).
  - At least 9 courses from the amath curriculum

Students have to take a minimum of 13 numerically graded courses. At most two of these can be at the 400 level or be cross listed with courses at the 400 level. The entire course of study of a student and all exceptions to this list must be approved by the Graduate Program Coordinator and the student's advisor or faculty mentors.
How do I find an advisor?
Upon arrival, incoming students will be assigned two faculty mentors. Until a student settles on a thesis advisor, the faculty mentors aid the student in selecting courses, and they each guide the student through a 2-credit independent reading course on material related to the student’s research interest. The faculty mentors are not necessarily faculty in the Department of Applied Mathematics.

Who should be on my supervisory committee/reading committee?
The full Supervisory Committee should have a minimum of three regular members plus the Graduate School Representative, and will consist of at least two faculty members from Applied Mathematics, one of whom is to be the Chairperson of the Committee. The Dissertation Reading Committee, consisting of three members, is usually formed from the Supervisory Committee. Two members of the Dissertation Reading Committee must be from the Applied Mathematics faculty.

When do I take the qualifying exams?
Information on the qualifying exams can be found here.

When do I take my general exam?
Information on the general exam can be found here.

When can I defend my dissertation (take my final exam)?
Information on the final exam can be found here.

How can I find out about more fellowship opportunities?
We make it a priority to inform students of fellowship opportunities via email or word of mouth. We also encourage students to find opportunities with their advisor or through funding sources such as the National Science Foundation or the Department of Energy. The graduate school keeps a list of possible fellowships and their deadlines. Many fellowships have deadlines in either November or January/March.

How do I publish my dissertation?
Information on publication requirements can be found on the Graduate School webpage.

Department of Applied Mathematics
University of Washington
Lewis Hall 201
Box 353925
Seattle, WA 98195-3925

Phone: (206) 543-5493
Fax: (206) 685-1440
info@amath.washington.edu

Source URL: https://amath.washington.edu/frequently-asked-questions