

PURE MATHEMATICS - M.A.

College of Sciences and Humanities
 Department of Mathematical Sciences
www.kent.edu/math

About This Program

The Pure Mathematics M.A. program provides a rigorous curriculum and faculty mentorship to prepare students for a successful career in mathematics research and education. Read more...

Contact Information

- **Artem Zvavitch** | azvavitc@kent.edu | 330-672-3316
- Connect with an Admissions Counselor

Program Delivery

- **Delivery:**
 - In person
- **Location:**
 - Kent Campus

Examples of Possible Career and Salaries*

Data scientists and mathematical science occupations, all other

- 30.9% much faster than the average
- 33,200 number of jobs
- \$98,230 potential earnings

Mathematical science teachers, postsecondary

- 1.3% slower than the average
- 60,100 number of jobs
- \$73,650 potential earnings

Mathematicians

- 3.0% about as fast as the average
- 2,900 number of jobs
- \$110,860 potential earnings

Natural sciences managers

- 4.8% about as fast as the average
- 71,400 number of jobs
- \$137,940 potential earnings

Secondary school teachers, except special and career/technical education

- 3.8% about as fast as the average
- 1,050,800 number of jobs
- \$62,870 potential earnings

Statisticians

- 34.6% much faster than the average
- 42,700 number of jobs
- \$92,270 potential earnings

* Source of occupation titles and labor data comes from the U.S. Bureau of Labor Statistics' Occupational Outlook Handbook. Data comprises projected percent change in employment over the next 10 years; nation-wide employment numbers; and the yearly median wage at which half of the workers in the occupation earned more than that amount and half earned less.

For more information about graduate admissions, visit the graduate admission website. For more information on international admissions, visit the international admission website.

Admission Requirements

- Bachelor's degree from an accredited college or university¹
- Minimum 2.750 undergraduate GPA on a 4.000-point scale
- Official transcript(s)
- Goal statement
- Résumé or vita
- Three letters of recommendation
- English language proficiency - all international students must provide proof of English language proficiency (unless they meet specific exceptions to waive) by earning one of the following:²
 - Minimum 71 TOEFL iBT score
 - Minimum 6.0 IELTS score
 - Minimum 50 PTE score
 - Minimum 100 DET score

¹ Applicants are not required to have an undergraduate degree in pure mathematics; however, they are expected to have proficiency in algebra and analysis at the level of MATH 41001, MATH 41002, MATH 42001 and MATH 42002. Those who do not meet these specific requirements may be granted conditional admission by the Graduate Studies Committee.

² International applicants who do not meet the above test scores may be considered for conditional admission.

Application Deadlines

- **Fall Semester**
 - Application deadline: March 1
- **Spring Semester**
 - Application deadline: October 1
- **Summer Term**
 - Application deadline: March 1

Applications submitted after these deadlines will be considered on a space-available basis.

Program Requirements

Major Requirements

Code	Title	Credit Hours
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Major Requirements

	Mathematics Electives	14
	Mathematics Sequence Electives, choose from the following: ¹	18

MATH 61051 & MATH 61052	ABSTRACT ALGEBRA I and ABSTRACT ALGEBRA II
MATH 62051 & MATH 62052	FUNCTIONS OF A REAL VARIABLE I and FUNCTIONS OF A REAL VARIABLE II
MATH 62151 & MATH 62152	FUNCTIONS OF A COMPLEX VARIABLE I and FUNCTIONS OF A COMPLEX VARIABLE II

Minimum Total Credit Hours:

32

¹ Students must complete, at minimum, two of the sequences and one semester of one of the remaining sequences. With prior permission from the Graduate Studies Committee, maximum 6 credit hours of mathematically related coursework from other departments can be applied to meet the Mathematics Sequence Electives.

Graduation Requirements

Minimum Major GPA	Minimum Overall GPA
-	3.000

- Candidates for the Master of Arts degree must pass the departmental qualifying examination at the master's level in algebra and analysis.

Program Note

Each student should submit a detailed plan of study for approval by the advisor by the time the first 16 credit hours of graduate credit have been completed.

Program Learning Outcomes

Full Description

The Master of Arts degree in Pure Mathematics comprises a flexible program of coursework in mathematics beyond the bachelor's degree emphasizing theoretical areas of the discipline (algebra, analysis, geometry, number theory and topology). There is no thesis requirement or option. Students in the Pure Mathematics Ph.D. degree can apply for this M.A. degree after completing the requisite number of credit hours.