PURE MATHEMATICS - M.S.

College of Arts and Sciences
Department of Mathematical Sciences
233 Mathematics and Computer Science Building
Kent Campus
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Description
The Master of Science degree in Pure Mathematics is primarily a terminal, pre-professional degree comprising coursework beyond the bachelor's degree that emphasizes theoretical areas of the discipline, including algebra, analysis, geometry, number theory and topology. Students are required to write and defend a thesis in an area agreed upon with a faculty advisor.

FULLY OFFERED AT:
• Kent Campus

Admission Requirements
• Official transcript(s)
• Bachelor's degree
• Goal statement
• Three letters of recommendation
• Résumé or vita

English Language Proficiency Requirements for International Students: All international students must provide proof of English language proficiency (unless they meet specific exceptions) by earning a minimum 525 TOEFL score (71 on the Internet-based version), minimum 74 MELAB score, minimum 6.0 IELTS score or minimum 50 PTE Academic score. For more information on international admission, visit the Office of Global Education's admission website. Effective spring 2018.

For more information about graduate admissions, please visit the Graduate Studies website.

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.

Program Requirements

Major Requirements

[AS-MS-PMTH]

Mathematics Electives

Mathematics Sequence Electives, choose from the following:

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

MATH 66051 & MATH 66052
INTRODUCTION TO TOPOLOGY I and INTRODUCTION TO TOPOLOGY II

Minimum Total Credit Hours: 32

Program Learning Outcomes

Graduates of this program will be able to:

1. Reason in mathematical arguments at a level appropriate to the discipline, including using precise definitions, articulating assumptions and reasoning logically to conclusions.
2. Engage effectively in problem solving, including exploring examples, devising and testing conjectures and assessing the correctness of solutions.
3. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
4. Communicate mathematics clearly both orally and in writing.
5. Teach college-level mathematics.
6. Obtain a deeper understanding of some subdiscipline of mathematics.