MATHEMATICS FOR SECONDARY TEACHERS - M.A

College of Arts and Sciences
Department of Mathematical Sciences
233 Mathematics and Computer Science Building
Kent Campus
330-672-2430
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Description
The Master of Arts degree in Mathematics for Secondary Teachers is a three-year program offered in the evenings and summer. Designed collaboratively by faculty in mathematical sciences and teacher education, the program is for in-service teachers and does not provide Ohio teacher licensure.

FULLY OFFERED AT:
• Kent Campus

Admission Requirements
• Official transcript(s)
• 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.

Program Learning Outcomes
Graduates of this program will be able to:

1. Reason in mathematical arguments, 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 high school-level mathematics.
6. Understand and appreciate connections among different subdisciplines of mathematics.
7. Be aware of and understand a broad range of mathematical subdisciplines.
8. Obtain a broader and deeper understanding of algebra, geometry and analysis and their interpretation in the K-12 curriculum.

Program Requirements
Major Requirements
[AS-MA-MTHT]

Major Requirements
| CI 67224 | TEACHING MATHEMATICS USING COMPUTERS AND CALCULATORS | 3 |
| CI 67225 | RESEARCH IN MATHEMATICS EDUCATION | 3 |
| CI 67791 | SEMINAR IN MATHEMATICS EDUCATION | 3 |
| MATH 64091 | SEMINAR IN MATHEMATICS EDUCATION (repeatable) | 6 |

Mathematics Electives (MATH 60000 level) 6
Capstone Project 2
Mathematics Electives, choose from the following: 15
MATH 51021 THEORY OF MATRICES
MATH 52021 GRAPH THEORY AND COMBINATORICS
MATH 52041 ADVANCED CALCULUS
MATH 52201 INTRODUCTION TO NUMERICAL COMPUTING I
MATH 55021 EUCLIDEAN GEOMETRY
MATH 55022 LINEAR GEOMETRY
MATH 57011 THEORY OF NUMBERS

Minimum Total Credit Hours: 38

Graduation Requirements
• Minimum 32 credit hours of graduate credit with minimum 16 credit hours at the 60000 level and 22 credit hours in mathematics
• Two to three courses in each of the areas of modern algebra, geometry and analysis
• Courses in applied mathematics and current trends in teaching
• Successful passage of a final examination in general mathematics