APPLIED MATHEMATICS - PH.D.

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 Ph.D. degree in Applied Mathematics is for those interested in becoming professional scholars, college and university teachers, or independent workers in private, industrial or government research institutions.

FULLY OFFERED AT:
• Kent Campus

Admission Requirements
• Official transcript(s)
• Goal statement
• Three letters of recommendation
• Résumé or vita
• Passage of the departmental qualifying examination at the master's level

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:

7. Approach mathematical problems creatively, including trying multiple approaches and modifying problems when necessary to make them more tractable.
8. Develop and carry out a research program in applied mathematics.
9. Communicate mathematics clearly both orally and in writing.
10. Teach university-level mathematics effectively.

Program Requirements
Major Requirements
[AS-PHD-AMTH]

Major Requirements
Mathematics Doctoral-Level Coursework (MATH 70000 or 80000 level) 30
MATH 87199 DISSERTATION I 2 30
Minimum Total Credit Hours: 60

1 A cognate of maximum 10 credit hours may be counted toward the completion of the degree subject to the approval of the student's advisor and the graduate studies committee.
2 Each doctoral candidate, upon admission to candidacy, must register for MATH 87199 for a total of 30 credit hours. It is expected that a doctoral candidate will continuously register for Dissertation I, and thereafter MATH 87299, each semester, including summer, until all requirements for the degree have been met. It is expected that candidates will present the results of their research in a defense open to students and faculty, at which the dissertation will be presented an defended before the dissertation committee.

Candidacy
This examination will be a comprehensive examination in the field of the major subject, and will be a substantially deeper test than the qualifying examination.