

NORTHERN KENTUCKY UNIVERSITY

CATALOG \_\_\_\_\_

CURRICULUM GUIDESHEET  
 MATHEMATICS AND SCIENCE EDUCATION OPTION

Students must meet requirements for admission to selected graduate program as defined by the appropriate catalog and outlined on the program curriculum contract/guidesheet. A graduate program option or specialization in mathematics and science education more closely aligns teacher education graduate programs with the goals of CINSAM and creates a vehicle to help accomplish these goals.

To add **Mathematics and Science Education** to the Masters of Arts in Education & Non-Degree Fifth Year Program for **Middle Grades or Secondary Teachers** as an optional specialization, the following courses are required:

6 semester hours as follows: 3 semester hour EDU elective under Professional Area **AND** 3 semester hour general Elective Area totaling 6 hours selected from the list of EDU courses below; also requires that the 12 semester hour Content Area be courses in Mathematics, Biology, Chemistry, Physics, Astronomy and/or Geology with the approval of advisor and/or course instructor.

- EDU 646 Teaching Environmental Education
- EDU 693 Selected Topics in Science Education
- EDU 658 Assessment Techniques for P-12 Mathematics
- EDU 659 Selected Topics in Mathematics Education

<u>Course # and Title</u>	<u>Experienced Teacher Standard(s)</u>	<u>Hours</u>	<u>Grade</u>	<u>Semester</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

To add **Mathematics and Science Education** to the Masters of Arts in Education & Non-Degree Fifth Year Program for **Elementary Teachers** as an optional specialization, the following courses are required:

12 semester hours as an optional Content/Specialization, selected from the list of EDU courses below and/or from courses in Mathematics, Biology, Chemistry, Physics, Astronomy and/or Geology with the approval of advisor and/or course instructor.

- EDU 640 Teaching Elementary Science
- EDU 646 Teaching Environmental Education
- EDU 693 Selected Topics in Science Education
- EDU 658 Assessment Techniques for P-12 Mathematics
- EDU 659 Selected Topics in Mathematics Education

<u>Course # and Title</u>	<u>Experienced Teacher Standard(s)</u>	<u>Hours</u>	<u>Grade</u>	<u>Semester</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

To add **Mathematics and Science Education** to the Rank I Certification Program for **Elementary, Middle Grades or Secondary Teachers** as an optional Professional Core Area, the following courses are required:

12 semester hours as an optional Professional Core Area, selected from the list of EDU courses below and/or from courses in Mathematics, Biology, Chemistry Physics, Astronomy and/or Geology with the approval of advisor and/or course instructor.

- EDU 640 Teaching Elementary Science
- EDU 646 Teaching Environmental Education
- EDU 693 Selected Topics in Science Education
- EDU 658 Assessment Techniques for P-12 Mathematics
- EDU 659 Selected Topics in mathematics Education

<u>Course # and Title</u>	<u>Experienced Teacher Standard(s)</u>	<u>Hours</u>	<u>Grade</u>	<u>Semester</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

Completion Requirements: successful completion of appropriate graduate program and submission of satisfactory professional portfolio. Recommendation of successful completion of Mathematics and Science Education Option.

\_\_\_\_\_  
Approval of Graduate Advisor (Signature)

\_\_\_\_\_  
Date

\_\_\_\_\_  
Approval of Director, Graduate Studies in Education (Signature)

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Date)