



***Doctor of Philosophy in Curriculum and Instruction:
Mathematics Education***

***Program Director: Dr. Tina Heafner (Tina.Heafner@uncc.edu)
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Course #	Title	Credit Hours
Core Courses		15
EDCI 8620	Pro-Seminar in Curriculum, Instruction, and Educational Leadership	3
EDCI 8180	Critical Issues and Perspectives in Urban Education	3
EDCI 8182	Power, Privilege and Education	3
EDCI 8184	Social Theory and Education	3
EDCI 8186	Globalization, Urbanization and Urban Schools	3
Research Methodology Courses		15
<i>Required Courses:</i>		
RSCH 8110	Descriptive and Inferential Statistics	3
RSCH 8210	Applied Research Methods	3
<i>Choose three or more of the following:</i>		
EDCI 8121	Applied Research Methods in the Teaching of English	3
EDCI 8250	Applied Research in Literacy Education	3
RSCH 8111	Qualitative Research Methods	3
RSCH 8112	Survey Research Methods	3
RSCH 8113	Single-Case Research	3
RSCH 8120	Advanced Statistics	3
RSCH 8121	Advanced Qualitative Methods	3
RSCH 8130	Presentation and Computer Analysis of Data	3
RSCH 8140	Multivariate Statistics	3
RSCH 8150	Structural Equation Modeling	3
RSCH 8196	Program Evaluation Methods	3

Five courses are required but not necessarily sufficient. Additional courses not listed require program director approval.

Mathematics Specialization Courses		21
Required Courses (18 Credit Hours):		
EDCI 8112	Theoretical Foundations of Learning Mathematics	3
EDCI 8113	Research in Mathematics Education	3
EDCI 8114	Advanced Topics in Mathematics Education	3
EDCI 8115	Issues in the Teaching of Secondary School Mathematics Education	3
EDCI 8160	Readings in Mathematics Education	3
EDCI 8609	Curriculum and Instruction Seminar	3
Select from the following. (Minimum 3 Credit Hours.) Students may enroll in 3 credit hours of graduate-level courses outside of the below list with approval of the Program Advisor.		
EDCI 8004	Topics in Analysis	3
EDCI 8008	Topics in Geometry and Topology	3
EDCI 8101	Real Analysis for Secondary Mathematics Teachers 1	3
EDCI 8102	Real Analysis for Secondary Mathematics Teachers II	3
EDCI 8103	Computer Techniques and Numerical Methods	3
EDCI 8105	Problem Solving in Discrete Mathematics	3
EDCI 8106	Modern Algebra for Secondary Mathematics Teachers	3
EDCI 8107	Linear Algebra for Secondary Mathematics Teachers	3
EDCI 8118	Non-Euclidean Geometry	3
EDCI 8660	Independent Study in Mathematics Education	3
Required for Dissertation		9
EDCI 8699*	Dissertation Proposal Seminar	3
EDCI 8999**	Dissertation Research	6
*Contact the Program Director for approval to enroll in EDCI 8699 and EDCI 8999. To be taken after successful completion of the comprehensive examinations and pre-proposal meeting with committee members.		
**Students must be admitted to candidacy to enroll in EDCI 8999. A minimum of 6 credit hours of dissertation research is required. Additional hours may be taken to complete the dissertation process.		
Minimum Total Credits		60