# MASTER OF EDUCATION
## IN ELEMENTARY MATHEMATICS EDUCATION

Learn. Inspire. Motivate.

If you love teaching mathematics at the elementary level and want to learn about the latest developments in elementary mathematics, the online Master of Education in Teacher Education with a concentration in Elementary Mathematics Education combines the knowledge you seek with the flexibility you need. You’ll learn about your own teaching and better understand your students’ mathematical thinking.

### WHY UNCG
- Recognized as a Top 10 “Best Online College”
- Named a “Best College for the Money” by College Factual
- Recognized five years in a row by Victory Media as Military Friendly
- Accredited by the Southern Association of Colleges and Schools (SACS)

### PROGRAM AT A GLANCE
- Fully online to flexibly accommodate your schedule
- 2 years to complete
- Latest developments in mathematics instruction
- Key strategies to understand your students’ mathematical thinking

### PROGRAM FEATURES
- Challenging program
- Inclusive learning community
- Team-based learning
- Fully accredited by the National Council for the Accreditation of Teacher Education
- 2014 US News & World Report ranking as one of America’s top education graduate schools
- Upon completion, teachers earn M level licensure in Elementary Education with add-on licensure in Elementary Mathematics

### ADMISSION REQUIREMENTS
- North Carolina Elementary Education Teacher’s License
- Three letters of recommendation
- Official transcript from each college or university attended
- Residency Statement
- Personal Statement and copy of résumé

### START DATES
- To start May 12, 2017 apply before April 1, 2017.
- To start August 15, 2017 apply before July 1, 2017.
- To start January 8, 2018 apply before October 1, 2017.

### HOW TO APPLY
1) Complete online Graduate School application at [grs.uncg.edu](http://grs.uncg.edu) with nonrefundable fee and submit your GRE score OR 2) Complete a Visions enrollment form at [grs.uncg.edu/visions](http://grs.uncg.edu/visions) to start classes prior to completing the GRE.

### CONTACT
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The University of North Carolina at Greensboro is a fully accredited nonprofit university with affordable tuition and financial aid opportunities. For more info, please visit [online.uncg.edu](http://online.uncg.edu).
### CURRICULUM

#### Year 1

<table>
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<th>Courses</th>
<th>Credit Hours</th>
<th>In-State</th>
<th>Out-of-State</th>
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* Outside North Carolina means education is received in a state other than North Carolina. Most students not living in North Carolina will fall into this category.

**TED 669 Educational Implications of Learning and Developmental Theory**
How learning and developmental theories define the teacher's role as instructional leader, how curricular materials might be designed and used, and student learning and motivation.

**TED 661 Algebraic Reasoning: K–5 Discourse and Questioning**
Focus on the early algebra concepts of functional thinking and generalized arithmetic in relationship to pedagogical practices centered on questioning in the mathematics classroom.

**TED 662 Geometry and Spatial Visualization: K–5 Assessment**
Geometric concept development along with formative and summative assessment strategies of students’ geometric thinking; attention also is given to geometric content knowledge and diagnosis of student errors.

**TED 666 Mathematical Modeling: K–5 Leadership**
Generating mathematical representations and making explicit connections between concepts. Pedagogy designed to equip elementary teachers to become mathematics teacher-leaders in school settings; focus given topics integrated within mathematical strands.

**TED 658 Number Systems and Operations: K–5 Mathematical Tasks**
Analysis and construction of effective mathematical tasks in teaching number systems and operations at the K–5 level; attention also given to expansion of content knowledge.

**TED 545 Diverse Learners**
Provides students with a broad base of knowledge and skills that will facilitate their effectiveness in meeting the needs of diverse learners through appropriate instructional, curricular, and behavioral strategies.

#### Year 2

**TED 659 Rational Numbers and Operations: K–5 Learning Trajectories**
Focus on rational number concepts through learning trajectories at the K–5 level; attention also given to problem solving and content knowledge.

**TED 676 Teacher as Researcher and Leader I**
Leadership skills for teachers working with school, district, state and/or national initiatives and issues. Course focuses on inquiry, developing an action research proposal, and practical application of findings.

**TED 663 Mathematical Modeling: K–5 Leadership**
Generating mathematical representations and making explicit connections between concepts. Pedagogy designed to equip elementary teachers to become mathematics teacher-leaders in school settings; focus given topics integrated within mathematical strands.

**TED 660 Data Analysis and Measurement: K–5 Classroom Interactions**
Focus on statistical literacy of elementary teachers and the teaching of data analysis and measurement to K–5 students; attention also given to learning methods that facilitate appropriate classroom interactions.

### GRADUATION REQUIREMENTS

- 33 total hours
- 9 hours Core Courses
- 15 hours Pedagogical Expertise
- 9 hours Professional Development/Expertise

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