

# Math Education (Elementary) (MAEE)

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## Courses

### **MAEE 3141. Teaching of Mathematics N-6. 3 Credit Hours.**

The purpose of this course is to prepare prospective teachers to teach reform-based mathematics in elementary and middle school settings as suggested in the Principles and Standards for School Mathematics (NCTM, 2000). The objectives of the course include integration of mathematics concepts and methods in order to focus on misconceptions in mathematics among preservice teachers as well as learning theories and standards-based instruction. The intent of the course is to enable students to enhance their mathematical skills and develop pedagogical knowledge. Furthermore, issues of equity and social justice will be discussed. Throughout the term, we will explore classroom materials, models, and technologies appropriate for teaching mathematics to all children, including those with learning disabilities.

**Student Attribute Restrictions:** Must be enrolled in one of the following Student Attributes: Clearance for Education.

**Cohort Restrictions:** Must be enrolled in one of the following Cohorts: EDCNDCY.

**Co-requisites:** ELED 3387, SCEE 3151.

**Repeatability:** This course may not be repeated for additional credits.

### **MAEE 5462. Tchg Math to Child N-6. 3 Credit Hours.**

The purpose of this course is to prepare prospective and beginning teachers to teach reform-based mathematics in early childhood and elementary school settings as suggested in the Principles and Standards for School Mathematics (NCTM, 2000). The intent of the course is to enable prospective and beginning teachers to enhance their mathematical content knowledge and develop pedagogical content knowledge and teacher efficacy. The course will also focus on equity pedagogies (i.e. culturally responsive and culturally specific pedagogies) and teaching for social justice. The course will also stress mathematical thinking and learning by observing video clips of actual classrooms and individual student assessments as well as microteaching of your peers. We explore teaching mathematics in both conceptual and procedural ways with models, manipulatives and advanced technologies to appropriate for teaching mathematics to all children, including underrepresented minority students, linguistically diverse students, and students with learning disabilities.

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

### **MAEE 5464. C&I in Math Educ N:6. 1 to 6 Credit Hour.**

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

### **MAEE 5469. Spec Proj Math Ed. 1 to 6 Credit Hour.**

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.

### **MAEE 5501. Math/Sci Pedagogy Tchrs. 3 Credit Hours.**

**Level Registration Restrictions:** Must be enrolled in one of the following Levels: Graduate.

**Repeatability:** This course may not be repeated for additional credits.