EDCI 617: Early Childhood Mathematics.
Development of mathematical concepts in young children from developmental and mathematical perspectives.

Prerequisite: Graduate classification.

EDCI 619: Teaching and Learning Number and Quantity Concepts.
Examination of the content, pedagogy, technology and research on teaching and learning concepts on number and quantity concepts; discussion of contemporary issues in K–12, standards and assessment.

EDCI 621: Teaching and Learning Space, Dimension and Measurement Concepts.
Examination of the content, pedagogy, technology and research on teaching and learning concepts on space, dimension and measurement concepts. Discussion of contemporary issues in K–12, standards and assessments.

EDCI 622: Theories of Learning and Teaching Mathematics.
Theoretical bases of the learning and teaching of mathematics, including an examination of the research which supports the theoretical bases.

Examination of the content, pedagogy, technology and research on teaching and learning concepts on skills in algebra, functions and calculus. Discussion of contemporary issues in K–12, standards and assessment.

Examines diagnostic and assessment procedures in mathematics and their potential for identifying problem areas related to children’s acquisition of mathematical skills; number and quantity concepts.

Prerequisite: Graduate classification.

Contact:
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EDCI 625: Teaching and Learning Mathematics with Diverse Learners.
Examsing diagnostic and assessment procedures in mathematics and their potential for identifying problem areas related to children’s acquisition of mathematical skills; number and quantity concepts.

*Prerequisite: EDCI 624.*

EDCI 627: Teaching and Learning Data Analysis and Uncertainty Concepts.
Examination of the content, pedagogy, technology and research on teaching and student learning of concepts and skills in probability, statistics and discrete mathematics; discussion of contemporary issues and K–12 curriculum, standards and assessment.

*Prerequisite: Graduate classification.*

EDCI 628: Analyzing and Reporting Field Based Research.
Analyze data from classroom observation, empirical tests and interviews; link theoretical and practical mathematics education to analysis of qualitative and quantitative data; equip teacher-leaders and researchers with the resources to interpret classroom phenomena from the research perspective using research-based theories of reaching and learning.

*Prerequisite: Graduate classification.*