Courses

MAED 205. Math as a Second Language. 3 Credits.
Deep conceptual understanding of the operations of arithmetic and interrelationships among arithmetic, algebra, and geometry; applications to the K-8 classroom. Prerequisite: Teacher license.

MAED 210. Functions/Algebra for Teaching. 3 Credits.
Functions, graphs, inverse functions, linear functions, straight lines, linear equations and inequalities, and applications; applications to the K-8 classroom. Prerequisite: MAED 205.

MAED 215. Trig/Algebra for Teachers II. 3 Credits.
Similar triangles, trigonometric functions, applications to measurement, periodic phenomena; quadratic functions; applications to the K-8 classroom. Prerequisites: MAED 205 and MAED 210.

MAED 220. Measure/Probabil for Teachers. 3 Credits.
Measurement (length, area and volume), probability, application to problem solving, and the ways in which these concepts develop across the K-12 curriculum. Prerequisites: MAED 205, MAED 210, and MAED 215.

MAED 225. Number Theory for Teachers. 3 Credits.
Division algorithm, prime numbers, fundamental theorem of arithmetic, factors and multiples, number bases, arithmetic progressions; emphasis on how number theory is taught in grades K-8. Prerequisites: MAED 205, MAED 210, and MAED 215.

MAED 230. Alg/Geom for Teachers III. 3 Credits.
Exponents, compound interest, exponential functions, logarithms, the base e, growth and decay, research in mathematics education and K-8 curriculum projects. Prerequisites: MAED 205, MAED 210, and MAED 215.

MAED 235. Calculus for Teachers I. 3 Credits.

MAED 240. Calculus for Teachers II. 3 Credits.
Continued study of calculus and its relationship to the K-8 curriculum. Topics include infinite series, calculating area, the definite integral, Fundamental Theorem of Calculus. Prerequisite: MAED 235.

MAED 295. Advanced Special Topics. 1-18 Credits.
See Schedule of Courses for specific title.