MATHEMATICS FOR EDUCATORS (MAED)

Courses

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.

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 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

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 215.

MAED 235. Calculus for Teachers I. 3 Credits.
Limits, instantaneous change, differentiation, optimization,
applications to the K-8 classroom, and K-8 curriculum projects.
Prerequisites: MAED 215, MAED 220, and MAED 230.

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 290. Internship. 1-18 Credits.
On-site supervised work experience combined with a structured
academic learning plan directed by a faculty member or a faculty-staff
team in which a faculty member is the instructor of record, for which
academic credit is awarded. Offered at department discretion.

MAED 292. Independent Study. 1-18 Credits.
A course which is tailored to fit the interests of a specific student,
which occurs outside the traditional classroom/laboratory setting
under the supervision of a faculty member, for which credit is
awarded. Offered at department discretion.

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

MAED 296. Special Topics. 1-18 Credits.
See Schedule of Courses for specific titles.

MAED 298. Undergraduate Research. 1-18 Credits.
Undergraduate student work on individual or small team research
projects under the supervision of a faculty member, for which credit is
awarded. Offered at department discretion.