THE UNIVERSITY OF ARIZONA | COLLEGE OF SCIENCE MATHEMATICS

SECONDARY MATHEMATICS EDUCATION PROGRAM
Students today... Teachers tomorrow

B.A. / B.S. in Mathematics, Education Option

The *Secondary Mathematics Education Program* is one emphasis in the College of Science B.A. or B.S. degree in Mathematics. This emphasis is intended to prepare students to be secondary school mathematics teachers. Students who complete this emphasis will be certified by The Arizona Department of Education as having fulfilled a teacher preparation degree program. The Education Emphasis has two components, a set of *courses in Mathematics* and a set of *courses in Teaching and Learning Mathematics*. The *courses in Teaching and Learning Mathematics* replace the requirement for the minor, although students can pursue another area as a minor.

Admission/Enrollment

- Students interested in enrollment need to contact the Math Center at *mcenter@math.arizona.edu* or (520) 626-9837
- To be admitted to this program, you must declare Mathematics as your major and select the Education Emphasis.
- The Mathematics Education Faculty will monitor students' progress throughout the program and decide, on the basis of each student's performance in the mathematics major and minor courses, if the student will be admitted to the last phases of the program.
- The minimum number of credits for this degree is 120 (42 upper-division credits required)

Courses in Mathematics

☐ CSC 110 (4) or ISTA 130 (4) or approved alternate programming course	☐ MATH 313 (3) Introduction to Linear Algebra	☐ MATH 315 (3) Intro. to Number Theory and Modern Algebra
☐ MATH 122A&B/125 (5/3) Calculus I	☐ MATH 355 (3) Analysis of Ordinary Diff. Equations	☐ MATH 323 (3) Formal Mathematical Reasoning and Writing
☐ MATH 129 (3) Calculus II	☐ MATH 330 (3) Topics in Geometry	☐ MATH 404 (3) History of Mathematics
☐ MATH 223 (4) Vector Calculus	☐ MATH 361 (3) Statistics for Teaching	☐ MATH 407 (3) Synthesis of Mathematical Concepts

Courses in Teaching and Learning Mathematics (Pedagogy)†

☐ MATH 205 (3) – 16 hours FP† Teaching Secondary Mathematics	☐ EDP 301 (3) Adolescent Learning in Science and Mathematics
☐ MATH 406A (4) – 30 hours FP† Curriculum and Assessment in Secondary School Mathematics	☐ SERP 400 (3) Survey of Exceptional Students
☐ MATH 406B (4) – 30 hours FP† Methods of Teaching Mathematics in Secondary Schools	☐ TLS 416 (3) Structured English Immersion Foundations
☐ MATH 494C (15) – 80 days, approx. 600 hours FP† Student Teaching Field Practicum	☐ TLS 435 (3) Content Area Literacy in a Multicultural School

† Field Practicum (FP) requirement

Additional AZ Certification Requirements

☐ U.S. and Arizona Constitutions (choose one option)
(1) POL 210, UA
(2) POS 210, Pima Community College
(3) Equivalent course from another AZ community college
(4) Passing scores on the two AEPA examinations (U.S. and AZ Constitutions)

☐ Fingerprint Clearance Card – AZ Department of Public Safety (*www.azdps.gov/services/fingerprint/*)

☐ National Evaluation Series (NES) – Passing scores on two examinations: Professional Knowledge and Mathematics Subject Knowledge (*www.aepa.nesinc.com/*)