

MATHEMATICS

UASCIENCE

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

The *Secondary Mathematics Education Program* is one option in the College of Science BA or BS degree in Mathematics. This option is intended to prepare students to be secondary school mathematics teachers. Students who complete this option will be certified by The Arizona Department of Education as having fulfilled a teacher preparation degree program. The Education Option 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 are encouraged to pursue another area as a minor.

Admission/Enrollment

- ⇒ Students interested in enrollment need to schedule an appointment with **Marcy DeWeese**, Coordinator & Academic Advisor at the Math Center, Math Bldg., Room 220/222. Please go to <http://math.arizona.edu/ugprogram/mcenter/contactus.html> to schedule an appointment or to contact Marcy with further questions.
- ⇒ To be admitted to this program, you must declare Mathematics as your major and select the Education Option.
- ⇒ 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.
- ⇒ Minimum number of units for degree is 120 (42 upper-division units required)

Courses in Mathematics

| | | |
|--|--|--|
| <input type="checkbox"/> CSC 127A Intro. to Computer Science | <input type="checkbox"/> MATH 215 Introduction to Linear Algebra | <input type="checkbox"/> MATH 323 Formal Mathematical Reasoning and Writing |
| <input type="checkbox"/> MATH 124/125 Calculus I | <input type="checkbox"/> MATH 355 Analysis of Ordinary Diff. Equations | <input type="checkbox"/> MATH 404 History of Mathematics |
| <input type="checkbox"/> MATH 129 Calculus II | <input type="checkbox"/> MATH 362 Introduction to Probability Theory | <input type="checkbox"/> MATH 315 Intro. to Number Theory and Modern Algebra |
| <input type="checkbox"/> MATH 223 Vector Calculus | <input type="checkbox"/> MATH 330 Topics in Geometry | <input type="checkbox"/> MATH 407 Synthesis of Mathematical Concepts |

Courses in Teaching and Learning Mathematics

| | |
|--|--|
| <input type="checkbox"/> STCH 250 Teaching Mathematics | <input type="checkbox"/> MATH 406A Curriculum and Assessment in Secondary School Mathematics |
| <input type="checkbox"/> STCH 310 Adolescent Development and Learning | <input type="checkbox"/> MATH 406B Methods of Teaching Mathematics in Secondary Schools |
| <input type="checkbox"/> LRC 435 Content Area Literacy in a Multicultural School | <input type="checkbox"/> LRC 416 Structured English Immersion |
| <input type="checkbox"/> SERP 301B Mainstreaming - Secondary | <input type="checkbox"/> STCH 494C Student Teaching |

Additional Certification Requirements **U.S. and Arizona Constitutions (choose one of three options):**

- (1) UA Coursework: Political Science 210 (3) (US & AZ Constitution) **or**
Political Science 201 (3) (US Constitution) **and** Political Science 230 (3) (AZ Constitution)
- (2) Passing scores on the two AEPA AZ State examinations (U.S. and Arizona Constitutions)
- (3) Pima Community College course: Political Science 210 (National and State Constitutions)

Fingerprint Clearance Card – obtain fingerprint clearance background check before taking MATH 406A from the AZ Dept. of Public Safety: www.azdps.gov/reports/fingerprint/faq/default.asp

Arizona Educator Proficiency Assessments (AEPA) - Pass the Professional Knowledge and Subject Knowledge (Mathematics) portions: www.aepa.nesinc.com