Option in the Mathematics Major: Mathematics Teaching

SECONDARY MATHEMATICS EDUCATION PROGRAM
Students today...Teachers tomorrow

Cynthia Anhalt, Director

COLLEGE OF SCIENCE
MATHEMATICS

THE UNIVERSITY OF ARIZONA
Teaching as a Career

• You have knowledge that is in high demand.
• Have you thought about becoming a teacher?
• Teaching is interesting, creative, and social – you get to interact with students everyday!
Mathematics Teaching Makes a Difference

Work in communities to help young people learn mathematics.
Employment is Favorable

• Teaching positions everywhere – you can live in any state – job security.

• Mathematics is a “hard-to-fill” teaching position – many districts are offering signing bonuses ranging from $2K-10K above salary
Our Program

- Mathematics Major - Teaching Option - B.A. or B.S.
- Certification upon graduation
- Classroom hands-on experiences in local schools while taking classes
- Be part of a supportive cohort and community
- Become involved in the newly funded NSF Noyce Project

www.smep.math.arizona.edu
Core Courses for All Math Majors
CSC 127A — Computer Science or ISTA 130 — Computational Thinking
MATH 122A/122B or MATH 125 — Calculus I
MATH 129 — Calculus II
MATH 223 — Vector Calculus
MATH 313 — Linear Algebra
MATH 323 — Formal Mathematical Reasoning and Writing
MATH 355 — Analysis of Ordinary Differential Equations

Required Courses for Mathematics Teaching
MATH 315 – Number Theory and Modern Algebra
MATH 330 – Topics in Geometry
MATH 361 – Statistics
MATH 404 – History of Mathematics
MATH 407 – Synthesis of Mathematical Concepts
Courses in Teaching and Learning

Mathematics Education Courses
MATH 205 – Teaching Mathematics - (16 hours*)
MATH 406A – Curriculum & Assessment in Mathematics (30 hours*)
MATH 406B – Methods in Mathematics Teaching (30 hours*)
MATH 494C – Mathematics Student Teaching (Full-time Internship*)

General Education Courses
EDP 301 – Adolescent Learning Theories
LRC 435 – Content Area Literacy
TLS 416 – Sheltered English Instruction (SEI)
SERP 301B – Education for Students with Diverse Abilities

*Field Practicum in local school classrooms
AZ Noyce MaTh Scholars Program

Noyce Interns

- Freshman/Sophomore opportunities
- $1,250 stipend/semester internship
- $2,000 summer internship

- Participate in
  - Tutoring
  - Afterschool Program
  - Noyce Seminars
  - Algebra Academy Summer Internship

Noyce Scholars

- Junior/Senior opportunities
- $10,000 Scholarship/year
- $1,250 stipend/semester internship
- $2,000 summer internship

- Participate in
  - Tutoring
  - Afterschool Program
  - Undergraduate Teaching Assistantship (UTA)
  - Noyce Seminars
  - Algebra Academy Summer Internship
ALL of our graduates are recruited for employment before they graduate.

Mathematics teaching is changing the world one student at a time.