THE UNIVERSITY OF ARIZONA
COLLEGE OF SCIENCE
Mathematics

SECONDARY MATHEMATICS EDUCATION PROGRAM
Students today...Teachers tomorrow

B.A. / B.S. in Mathematics - - - Mathematics Education Option --- Courses & Prerequisites

MATHEMATICS COURSES	SEM. OFFERED	PREREQUISITES	MATHEMATICS TEACHING AND LEARNING COURSES	SEM. OFFERED	PREREQUISITES
☐ **ISTA 130** or **CSC 127A** Intro. to Computer Science	Fall, Spring	College Algebra recommended	☐ **MATH 205* (16 hrs FP)** Teaching Mathematics	Fall	MATH 122B or 125; MATH 129 or consent of instructor; Sophomore standing
☐ **MATH 122A&B or 125** Calculus I	Fall, Spring, Summer	MATH 120R†, or MATH 112† and MATH 111†, or placement exam	☐ **EDP 301** Educational Psychology and Child and Adolescent Development	Fall, Spring, Summer	Contact College of Education to enroll
☐ **MATH 129** Calculus II	Fall, Spring, Summer	MATH 122B† or MATH 125†	☐ **SERP 301B** Inclusion - Secondary Educ.	Fall, Spring	Contact College of Education to enroll
☐ **MATH 223** Vector Calculus	Fall, Spring, Summer	MATH 129†	☐ **TLS 416** An Introduction to Structured English Immersion (SEI)	Fall	Contact College of Education to enroll; sometimes offered online.
☐ **MATH 313‡** Intro to Linear Algebra	Fall, Spring, Summer	MATH 129†	☐ **TLS 435** Content Area Literacy in a Multicultural School	Fall, Spring	
☐ **MATH 315** Intro. to Number Theory and Modern Algebra	Spring	MATH 313	☐ **MATH 406A*(30 hrs FP)** Curriculum and Assessment in Secondary School Mathematics	Spring	MATH 205, STCH 310 or EDP 301, MATH 330; MATH 315 & MATH 361 may be taken concurrently; GPA ≥ 2.5 in MATH 122A&B/125, 129, 223
☐ **MATH 361** Statistics for Teaching	Spring	MATH 313 and MATH 223 (or equivalents)	☐ **MATH 406B*(30 hrs FP)** Methods of Teaching Mathematics in Secondary Schools	Fall	MATH 406A GPA ≥ 2.5 in MATH 122A&B/125, 129, 223
☐ **MATH 330** Topics in Geometry	Fall	MATH 313 or MATH 310	☐ **MATH 494C*(80 days FP)** Student Teaching	Fall, Spring	All mathematics content & pedagogy courses Overall GPA ≥ 2.0; Major GPA ≥ 2.0; Pedagogy GPA ≥ 2.5
☐ **MATH 355** Analysis of Ord. Diff. Eq.	Fall, Spring	MATH 313			
☐ **MATH 323** Formal Mathematical Reasoning	Fall, Spring, Summer	MATH 313	***Course has a Field Practicum (FP) and a Fingerprint Clearance Card (FCC) requirement from the AZ Dept. of Public Safety**		
☐ **MATH 404** History of Mathematics	Fall	MATH 323	**Choose ONE option for AZ & US Constitutions (for AZ Certification):**		
☐ **MATH 407** Synthesis of Mathematical Concepts	Fall	MATH 330, MATH 323 and (MATH 315 or MATH 415A)	☐ UA- **POL 210** ☐ PCC- **POS 210** ☐ Equivalent course from another institution ☐ **AEPA** Exams – (http://www.aepa.nesinc.com)		

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†Grade of C or better required in this prerequisite. ‡MATH 313 has replaced 215; students with credit for 215 will satisfy this requirement and qualify for courses requiring 313 as prerequisite.

June 13, 2016