Secondary Mathematics Education

Course work for Secondary Mathematics Education candidates falls into six categories: general education, introductory courses, core courses, methods courses, content area courses, and student teaching.

Program Learning Outcomes

1. Demonstrate mastery of content, technological advances, and pedagogical expertise in the content and grade levels in which they teach
2. Establish a safe, inclusive, and respectful learning environment for a diverse population of students
3. Plan and deliver effective instruction, supported by appropriate technological applications, and create an environment that facilitates learning for all students
4. Demonstrate high standards for professional conduct
5. Partner, collaborate, and engage with families and/or communities to develop relationships and build networks of support for student success
6. Actively advocate for students, families, and schools to support equity and social justice
7. Apply research to improve practice and student learning

Requirements

Introductory Courses

TEP 207	Foundations of American Education	3
TEP 223	Adolescent Development for Teachers	3
TEP 224	Exceptional Child for Teachers	3
TEP 227	Educational Psychology for Teachers	3
Total Hours		**12**

Core Courses

TEP 305	Technology For Teaching	3
TEP 315	Advanced Classroom Management	3
TEP 318	Curriculum, Planning, and Assessment	3
Total Hours		**9**

Methods Courses [1]

TEP 415	Teaching in Secondary Schools	3
TEP 419	Content Area Literacy Methods	3
TEP 436	Mathematics Methods for Middle and Secondary Grades	3
Total Hours		**9**

[1] TEP 301 is a prerequisite for all TEP 400 level courses

Content Courses

MAT 103	Trigonometry	2
MAT 115	Calculus I	4
MAT 116	Calculus II	4
MAT 302	Discrete Mathematics	4
or CSC 302	Discrete Structures	
MAT 332	Linear Algebra	4
MAT 401	History Of Mathematics	4
MAT 403	Abstract Algebra	4
MAT 404	Geometry	4
MAT 421	Statistical Methods	4
Electives - MAT/CSC 100-200		6
Electives - MAT/CSC 300-400		6
Total Hours		**46**

Secondary candidates who have completed all general education requirements; all introductory, core, and methods courses; and all course work for content area, and all other requirements will be eligible to complete student teaching.

Candidates are required to apply for student teaching. Applications are to be completed within the prescribed time frame. Candidates must complete a state and federal background check as directed by the host district prior to the start of student teaching.

Student Teaching

TEP 449	Middle Grade and High School Student Teaching Seminar	3
TEP 451	ECCE: Student Teaching - Middle Grade and High School	9
Total Hours		**12**