Geometry for Secondary Mathematics Teaching – C881

Course Feedback

Overview

Geometry for Secondary Mathematics Teaching explores important conceptual underpinnings, common misconceptions and students’ ways of thinking, appropriate use of technology, and instructional practices to support and assess the learning of geometry. Secondary teachers in this course will develop a deep understanding of constructions and transformations, congruence and similarity, analytic geometry, solid geometry, conics, trigonometry, and the historical development of content. Calculus I and College Geometry are prerequisites for this course.

Competencies

- **Geometry Content, History, and Cultural Diversity**
  The graduate analyzes historical development, perspectives from diverse cultures, and content knowledge to deepen a student’s geometry understanding.

- **Instructional Practices for Geometry**
  The graduate integrates instructional practices to support and assess students’ understanding of geometry.

- **Conceptual Geometry and Common Misconceptions**
  The graduate analyzes conceptual geometry underpinnings, common misconceptions, and students' ways of thinking to create opportunities to learn.

- **Technology in Geometry**
  The graduate integrates technology to support and assess students' learning of geometry.

Learning

**Getting Started**

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Status: Not Attempted
Code: ECP1

Course Instructor

Course Instructor Group

Course Search

Course Chatter