

MATH 425 Mathematics Student Teaching Seminar

1. Catalog Description

MATH 425 Mathematics Student Teaching Seminar
CR/NC

2 units

Prerequisite: Acceptance into Step II of the Single Subject Credential Program in Mathematics. Concurrent: EDUC 469 or EDUC 479.

Principles and practice in effective teaching of mathematics at the middle and high school level, learning theories, curriculum content and structure, classroom issues, and the teaching profession. Credit/No Credit grading only. Total credit limited to 4 units. 2 seminars.

2. Required Background or Experience

Acceptance into the Single Subject Credential Program in Mathematics.

3. Learning Objectives

Student teachers should:

- a. Be able to use teaching and learning theories to develop effective lessons for the teaching of mathematics.
- b. Be able to develop effective assessments to evaluate students' learning of mathematics.
- c. Be able to evaluate their teaching of mathematics.
- d. Be knowledgeable of school policies, statewide assessments in mathematics, and activities expected of professional mathematics teachers.

4. Text and References

- Mathematics Framework for California Public Schools.
- NCTM Principles and Standards for School Mathematics.

5. Minimum Student Materials

Paper, pencils, and notebook.

6. Minimum University Facilities

Classroom with chalkboard space.

7. Content and Method

Topics:

- a. Student teaching expectations and responsibilities
- b. Teaching methods and learning theories.
- c. Difficulties and challenges occurring in the student teachers' classrooms.
- d. Interactions between teacher and students.
- e. Students' typical misconceptions in mathematics.
- f. Cooperative learning and active participation.
- g. Effective lesson plans.
- h. Student teacher performance assessment expectations and support.

Method

Lectures, demonstrations, student presentations.

8. Methods of Assessment

Credit in Math 425 will be awarded on the basis of attendance and participation in classroom activities, written assignments, and projects.