MATH 425  Mathematics Student Teaching Seminar

1. Catalog Description

MATH 425  Mathematics Student Teaching Seminar (1) (CR/NC)

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 2 units. 1 Seminar. Prerequisite: Acceptance into Step II of the Single Subject Credential Program in Mathematics. Corequisite: Concurrent enrollment in EDUC 469 or EDUC 479.

2. Required Background or Experience

Acceptance into Step II of the Single Subject Credential Program in Mathematics.

3. Learning Objectives

Student teachers should be able to use teaching and learning theories to develop effective lessons for the teaching of mathematics, to develop effective assessments to evaluate students’ learning of mathematics, and to evaluate their teaching of mathematics. They should 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) PACT 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.