

CALIFORNIA STATE UNIVERSITY, EAST BAY

Designation Code: 2008-09 **CAPR 08**

Date Submitted: November 6, 2008

TO: The Academic Senate
FROM: Committee on Academic Planning & Review (CAPR)
SUBJECT: Foundational Mathematics Teaching Certificate
PURPOSE: For Action by the Academic Senate
ACTION
REQUESTED: That the Academic Senate Approve the Foundational Mathematics Teaching Certificate

At the CAPR meeting of November 6th, the committee members voted unanimously to approve the Foundational Mathematics Teaching Certificate

Program submission documents can be found on the CAPR Sharepoint site within the November 6th workspace at:

<https://sharepoint.csueastbay.edu/sites/AcademicSenate/capr/CAPR%20Meeting/default.aspx?In stanceID=20081106>

See also 08-09 CIC 9

Effective Date Quarter: Fall Year: 2009

**REQUEST FOR APPROVAL OF NEW CERTIFICATE
PROGRAM IN FOUNDATIONAL MATHEMATICS TEACHING**

1. Name of **department** or program committee submitting request. Mathematics and Computer Science
2. Full and exact **title** of program: Foundational Mathematics Teaching
3. **Purpose(s)** of the proposed program: This certificate program is designed for students who would like to teach middle school math and who currently have or plan to obtain their Multiple Subjects teaching credential or a Single Subjects teaching credential in a related field. This certificate program is being developed in response to the recent state board of education's decision to require all eighth grade students to be proficient in Algebra I.
4. **Need** for proposed program: This certificate program is being developed in response to the recent State Board of Education's decision to require all eighth grade students to be proficient in Algebra I. Middle school mathematics teachers now need to be qualified to teach what was previously 9th grade mathematics.
5. List of all **program requirements**, including prerequisites and **courses** by catalog number, title, and units of credit, as well as **total units** to be required under the proposed new certificate or credential or subject matter preparation program:

MATH 1130 College Algebra (4)
MATH 4012 Geometry and Measurement (4)
MATH 4013 Statistics, Data Analysis, and Probability (4)
MATH 4030 Advanced Study of School Mathematics (4) (new course)
TED 5390 Instructional Methods for the Single Subject Classroom I (3)
TED 5391 Instructional Methods for the Single subject Classroom II (2)

TOTAL UNITS: 21

Prerequisite: MATH 2011 Number Systems (4)

Note that students who complete the Foundational Mathematics Teaching Certificate program will still need to pass the first two math CSET exams to establish subject matter competency for the credential.

6. List of **New Course** and **Course Modification Requests** proposed for program.

MATH 4030 Advanced Study of School Mathematics (4) --New

7. **Additional instructional resources**--faculty, space, equipment, library volumes, computers, etc.-- needed to implement and sustain the proposed aggregate of courses. Additional funds may be needed in the Department of Mathematics and Computer Science each year in order to offer the new course Math 4030 at both the Hayward and Contra Costa Campus. Additional funds may be needed in the Department of Teacher Education each year to offer one new section each of TED 5390 and 5391 each year. Additional sections may be required depending on demand. These courses can be taught by our current lecturers, so no additional office space will be required. Grant money will cover this cost the first year.

8. Relationship of proposed program to requirements for **teaching credentials, accreditation, and/or licensing.**

The program is designed to prepare current and future middle school teachers to pass the Math CSET tests I and II. Completion of the certificate program, success passing the two exams, and completion of a Multiple Subjects credential program or Single Subject Credential program qualifies the student for a Foundational Level Mathematics teaching credential.

9. **Consultation.**

The Department of Teacher Education and the MSTI (Math and Science Teaching Initiative) directors were consulted and approve of the proposed program. All departments within the College of Science were consulted.

10. **Approval of Department, College Dean and College Faculty Review Body:**

Acting Chair: Original signed by Kathy Hann **Date:** 9/4/08

Dean: Original signed by Alan Monat **Date:** 9/10/08

Faculty Review Body: Original signed by John Lovell **Date:** 9/10/08