CALIFORNIA STATE UNIVERSITY CHANNEL ISLANDS

COURSE MODIFICATION PROPOSAL

Courses must be submitted by November 9, 2007, to make the next catalog production

Date (Change date if revised): 11.15.07

PROGRAM AREA(S): EDUCATION-SINGLE SUBJECT TEACHING CREDENTIAL PROGRAM

1.	Catalog Description of the Course. [Follow accepted catalog format.] (If Cross-listed please submit prefixes for each discipline being modified)								
	OLD Prefix EDSS Course# 531 Title Teaching Mathematics in Middle Schools Units (3) 3 hours lecture per week hours blank per week			NEW Prefix EDSS Course# 531 Title Teaching Mathematics in Middle Schools Units (3) 3 hours lecture per week hours blank per week					
	 ☑ Prerequisites: Admission into the Single Subject Credential Program ☑ Corequisites: EDSS 570 (1-2 units) or EDSS 575 			 ☑ Prerequisites: Admission into the Single Subject Credential Program ☑ Corequisites: EDSS 570, EDSS 580, EDSS 575, or EDSS 585 					
	Description (Do not use any symbols): A study of content, methodology, materials and current research in teaching middle school mathematics. Focuses on the state curricular mathematics frameworks appropriate for middle school classrooms. Emphasizes reflective practice based on California Standards for the Teaching Profession and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms. Graded Gen Ed CR/NC Repeatable for categories up to Lab Fee Required A - F units Hegis Code Multiple Optional Enrollment in (Student's same semester choice) Mission Based Learning Objectives: Interdisciplinary American Institutions, Title V Section 40404: Government of the Academic Course			Description: A study of content, methodology, materials and current research in teaching middle school mathematics. Focuses on the state curricular mathematics frameworks appropriate for middle school classrooms. Emphasizes reflective practice based on California TEACHER PERFORMANCE EXPECTATIONS and the use and alignment of curricula to the Academic Content Standards for California Public Schools. Includes an emphasis on teaching in multicultural, multilingual and inclusive classrooms. Graded Gen Ed CR/NC Repeatable for Categories up to Lab Fee Required A - F units Multiple Optional Enrollment in same (Student's semester choice) International Multicultural Service Learning ment US Constitution US History (Refer to EO 405, for					
2. Mode of instruction (Hours per Unit are set for you)									
	Lecture 3 Seminar Laboratory Activity Field Studies Indep Study Other blank	Exist Hour Per Unit 1 1 2 2	Benchmark Enrollment 20	CS# Units (filled out by Dean)	Lecture Seminar Laboratory Activity Activity Activity Activity	Units <u>3</u>	Hour Per Unit 1 1 2 2 2 2	Benchmark Enrollment 20	CS# Units (filled out by Dean)

3. Course Content in Outline Form if Being Changed. [Be as brief as possible, but use as much space as necessary]

Data Analysis & Statistics 9.5.07 km2

OLD

NEW

Data Analysis & Statistics

Communicating mathematically, Balanced Assessment, Rubric Communicating mathematically, Balanced Assessment, Rubric scoring & Portfolios scoring & Portfolios Dev. Early Number Sense: Problem Types Dev. Early Number Sense: Problem Types Facts & Foundational Skills & Strategies Facts & Foundational Skills & Strategies Fractions Fractions Connections between Fractions, Decimals & Percents; Connections between Fractions, Decimals & Percents; Developing Concepts of Ratio & Proportion Developing Concepts of Ratio & Proportion Geometry Geometry Measurement Measurement Technology Tools for Deepening Understanding Technology Tools for Deepening Understanding Literacy in Mathematics; ELD Strategies - Access for All Literacy in Mathematics; ELD Strategies – Access for All Algebraic Reasoning Algebraic Reasoning Pattern & Function Connections – Linear & Non-linear Pattern & Function Connections – Linear & Non-linear **Functions** Functions Integers Integers **Exponents & Exponential Functions Exponents & Exponential Functions** Probability Probability

4. Justification and Learning Objectives for the Course. (Indicate whether required or elective, and whether it meets University Writing, and/or Language requirements) [Use as much space as necessary]

OLD

This is a required course for students seeking a Single Subject Credential in Mathematics.

Through this course, students will be able to

- Identify important issues of modern middle school mathematics curriculum
- Align lessons and lesson plans to the California State Academic Content Standards
- Apply effective teaching techniques to the instruction of pre-algebra, algebra and pre-calculus
- Recognize and utilize effective problem solving approaches to teaching algebra
- Discuss pedagogy and demonstrate teaching methods for various student levels and a diverse student population in middle schools
- Use modern technology and mathematics software in the classroom
- Develop a variety of means of evaluating student needs and student learning.

NEV

This is a required course for students seeking a Single Subject Credential in Mathematics.

Through this course, students will be able to

- Identify important issues of modern middle school mathematics curriculum
- Align lessons and lesson plans to the California State Academic Content Standards
- Apply effective teaching techniques to the instruction of pre-algebra, algebra and pre-calculus
- Recognize and utilize effective problem solving approaches to teaching algebra
- Discuss pedagogy and demonstrate teaching methods for various student levels and a diverse student population in middle schools
- Use modern technology and mathematics software in the classroom
- Develop a variety of means of evaluating student needs and student learning.

5. I	References.	[Provide 3-5 re	ferences on	which this course	e is based	and/or	support it.	. 1
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OLD

NEW

6.	Indicate Changes and Justification for Each.	[Check all that apply and follow with justification.	Be as brief as possible but
	use as much space as necessary.]		
	Course title		
	☐ Prefix/suffix		
	Course number		
	Units		
	☐ Staffing formula and enrollment limits		
	□ Prerequisites/corequisites		
	☐ Catalog description		
	Course content		

9.5.07 km2

	References GE Other		
stu	cation: Corequisites changed to refle		for full and part-time students as well as fall and spring start ormance Expectations set forth by the California Commission on
Cu A A- A- B B- B- C C- C- C- D E		Critical Thinking) (Y) (Y) (Y) (Y) (Y) (Y) (Y) (E categories notations (including deletions) must be processed at the GE completion, the GE Committee will forward your documents to the
	v Resources Required. YES NO [2] YES, list the resources needed and obta		appropriate programs/units on the consultation sheet below.
a.	Computer (data processing), audio vis	sual, broadcasting needs	s, other equipment)
b.	Library needs		
c.	Facility/space needs		
If, 10. E f	YES attach a program modification for	m for all programs affe	ficate, or minor in your program? YES NO cted. itted prior to November 9 th will be effective in the Fall 2008
Jeanne	M. Grier	10/15/2007	<u> </u>
Propos	er of Course Modification	Date	

9.5.07 km2

Approvals Program/Course: Program Chair(s) Date General Education Chair(s) Date Curriculum Committee Chair(s) Date Dean of Faculty

9.5.07 km2

Date