CALIFORNIA STATE UNIVERSITY, SAN MARCOS COLLEGE OF EDUCATION (Fall 2006)

EDMS 543 – Elementary Mathematics Education (42645) Monday: 8:00 AM- 2:15 PM (Ronald Reagan Elementary)

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Office Hours:	Before and after class

College of Education Mission Statement

The mission of the College of Education Community is to collaboratively transform public education by preparing thoughtful educators and advancing professional practices. We are committed to diversity, educational equity, and social justice, exemplified through reflective teaching, life-long learning, innovative research and on-going service. Our practices demonstrate a commitment to student-centered education, diversity, collaboration, professionalism, and shared governance. *(Adopted by COE Governance Community, October, 1997).*

COURSE DESCRIPTION

This course focuses on how children develop mathematical understanding; children's mathematical thinking; curriculum development; methods, materials, planning, organization and assessment in various elementary school curricula; and curriculum integration. Methods of cross-cultural language and academic development are integrated into the course.

Course Prerequisites

(Admission to the Multiple Subject Credential Program is a prerequisite. Semesters 1-2 of the Integrated Bachelor of Arts and Multiple Subject Credential Program and the consent of the Program Coordinator are also prerequisites.

Course Objectives

1. Using reflective writings, teacher candidates will provide ongoing evidence of good depth of understanding as well as application to the classroom, of chosen ideas from weekly assigned readings.

2. Using the interview process to apply the pedagogical content knowledge that is being learned in the course, teacher candidates will improve their use of inquiry for assessment purposes by focusing on students' thinking about mathematics to better understand elementary level students with different understandings.

3. By merging theory and practice in order to enable their future students to understand a mathematical topic and make connections among ideas related to this topic, teacher candidates will participate in the design, construction, and presentation of a reform-minded mathematical activity that focuses on students' mathematical thinking.

4. By compiling an effective list of resources on a predetermined math topic, teacher candidates will demonstrate evidence that they are able to provide students with access to a balanced and comprehensive mathematics curriculum that promotes and enhances student

learning and understanding, and provides conceptual understanding of the logic and structure of mathematics, problem-solving skills, and computational and procedural skills.

5. By reflecting on and weaving what has been learned in the course during the semester regarding mathematics standards, reform-minded mathematics ideas, constructivist teaching and learning methods which enhance how children think and problem solve, teacher candidates will analyze the curriculum that is currently being implemented in their practicum classroom.

6. Teacher candidates will write summary reflections during the course to be submitted, responded to, and archived via TaskStream for final TPE assessments and for creating their final portfolios.

Unique Course Requirements (optional)

Students will be required to have access to children in a grade K-6 for the purpose of conducting a series of math interviews to learn about how children think and problem solve.

Each student will be required to implement and videotape a lesson in his or her observation classroom.

Required Texts

 Van de Walle, J. A. (2007). Elementary and middle school mathematics: Teaching developmentally (6th ed). Boston: Pearson Education, Inc. ISBN: 0-205-48392-5

The text has a companion Web site (under construction): http://www.ablongman.com/vandewalle6e

- California Department of Education (2000). Mathematics framework for California public_schools, kindergarten through grade twelve (2000 Revised Ed.). Sacramento, CA: Author. This document can be found on the WWW at: <u>http://www.cde.ca.gov/ci/ma/cf/documents/mathfrwkcomplete.pdf</u>. The Web site contains a downloadable PDF file. There are also copies in the library for checkout.
- Turnbull, A., Turnbull, R., & Wehmeyer, M. (2007). Exceptional lives: Special education in today's schools. (5th ed). Pearson/Merrill Prentice Hall. ISBN: 0-13-170869-4.

You are required to access the following Web sites and materials for this course.

- National Council of Teachers of Mathematics (2000). Principles and standards for school mathematics. Reston, VA: Author. This document can be found at: <u>http://www.standards.nctm.org/</u>
- Star Test Blueprints for Standards Items (grades 2-7) <u>http://www.cde.ca.gov/ta/tg/sr/documents/math1105.doc</u>

Authorization to Teach English Learners

This credential program has been specifically designed to prepare teachers for the diversity of languages often encountered in California public school classrooms. The authorization to teach English learners is met through the infusion of content and experiences within the credential program, as well as additional coursework. Students successfully completing this program receive a credential with authorization to teach English learners. (Approved by CCTC in SB 2042 Program Standards, August 02)

Teacher Performance Expectation (TPE) Competencies

The course objectives, assignments, and assessments have been aligned with the CTC standards for the Multiple Subject Credential. This course is designed to help teachers seeking a California teaching credential to develop the skills, knowledge, and attitudes necessary to assist schools and district in implementing effective programs for all students. The successful candidate will be able to merge theory and practice in order to realize a comprehensive and extensive educational program for all students. You will be required to formally address the following TPEs in this course:

CTC Standards Alignment:

The course objectives, assignments, and assessments have been aligned with the CTC

standards for Multiple Subjects Credential. The following standards are a primary emphasis in this course:

- **Standard 3**: Relationship between Theory and Practice
- Standard 4: Pedagogical Thought and Reflective Practice
- **Standard 5:** Equity, Diversity and Access to the Core Curriculum for All Children •
- Standard 8A: Pedagogical Preparation for Subject-Specific Content Instruction by • MS Candidates (Mathematics)

Teacher Performance Expectation (TPE) Competencies:

Primary Emphases:

- TPE 1a-Subject Specific Pedagogical Skills for MS Teaching (Mathematics)
- TPE 2-Monitoring Student Learning During Instruction

Secondary Emphases:

- TPE 3-Interpretation and Use of Assessments
- TPE 4-Making Content Accessible
- TPE 5-Student Engagement
- TPE 6a-Developmentally Appropriate Practices in Grades K-3 •
- TPE 6b-Developmentally Appropriate Practices in Grades 4-8 •
- TPE 6d- Developmentally Appropriate Teaching Practices for Special Education: • Teaching the Special Education Population in the General Education Environment
- TPE 7-Teaching English Learners •
- TPE 8-Learning About Students •

- TPE 9-Instructional Planning
- TPE 10-Instructional Time
- TPE 11-Social Environment
- TPE 13-Professional Growth
- TPE 14-Educational Technology in Teaching and Learning

College of Education Attendance Policy

Due to the dynamic and interactive nature of courses in the College of Education, all students are expected to attend all classes and participate actively. At a minimum, students must attend more than 80% of class time, or s/he may not receive a passing grade for the course at the discretion of the instructor. <u>Individual instructors may adopt more stringent attendance requirements</u>. Should the student have extenuating circumstances, s/he should contact the instructor as soon as possible. *(Adopted by the COE Governance Community, December, 1997).*

If you miss one class session or are late (or leave early) more than two sessions, you cannot receive a grade of "A". If you miss two class sessions, your highest possible grade is a "C+".

If possible, please discuss with the instructor any extenuating circumstances that will cause you to miss class <u>prior</u> to your absence. Attendance will be taken at each class session. Furthermore, grades on assignments turned in late will be lowered unless **prior arrangements** have been made with the instructor. Absence is no excuse for not turning in assignments, as they may be sent electronically (e-mail) to the instructor.

Students with Disabilities Requiring Reasonable Accommodations

Students must be approved for services by providing appropriate and recent documentation to the Office of Disable Student Services (DSS). This office is located in Craven Hall 5205, and can be contacted by phone at (760) 750-4905, or TTY (760) 750-4909. Students authorized by DSS to receive reasonable accommodations should meet with their instructor during office hours or, in order to ensure confidentiality, in a more private setting.

Course Requirements and Grading Standards

<u>ASSIGNMENTS</u> (The relative weight for each assignment is indicated as a percentage of the total course grade)

Detailed assignment guidelines and scoring rubrics (course packet) will be provided electronically to each student for all written assignments below. The course calendar/topics schedule is attached to this syllabus.

Reading Reflections

(10%) - Each week students will write a "meaningful" reflection on the material assigned to be read for that week. Each reflection will be worth 5 points. These reflections should be <u>one full</u> <u>page</u> in length (use an "11" font, line spacing of 1.5, with **only** your name and class session number as a heading), and should clearly articulate your thoughts <u>on the assigned readings</u> and how you might **specifically apply** what you learned from the articles as a teacher in the classroom. Please do not repeat verbatim from the readings. **Other assignments may be**

given that will substitute the written reflection but <u>not</u> the reading assignment. These will require more than 1 page in length.

Student Interviews (Critical Assessment Task – CATs)

(20%) - You and one of your classmates will conduct three different student interviews based on questions provided in class. Each interview is worth 5 points. For each interview, you will pose mathematical problems to any one student at a predetermined grade level. The purpose is to get you to begin thinking about students' mathematical understanding, to learn how to effectively pose questions, and interpret the meaning of students' answers, and to provide you with an opportunity to interact with students.

Mathematical Resources & Lesson (Critical Assessment Task – CATs)

(35%) – You will first compile resources on a predetermined mathematical topic (15%) and then design a lesson that you will present and videotape in an elementary class (20%). The purpose of this activity is to help you learn how to design effective mathematical activities, to provide you with an opportunity to begin compiling mathematical resources, and to provide an opportunity for you to practice teaching mathematics in an authentic classroom setting.

Curriculum Assignment (Critical Assessment Task – CATs)

(25%) – Students will review the mathematics curriculum currently being used in your classroom (e.g., a textbook) at one grade level and write a short paper that investigates the curriculum alignment with the CA Content Standards and current high stakes assessments. Students will also provide their general thoughts and concerns related to the curriculum (e.g., how the curriculum might need to be altered to make strong connections between mathematical concepts and procedures).

Active Participation and Collaboration

(5%) - Defined as actively engaging and contributing in all class discussions and activities, students will be evaluated daily. A <u>positive attitude</u> is an important component for establishing the definition for active participation and collaboration. In addition, the student will be expected to exhibit professional behavior and demeanor at all times.

Taskstream Postings (5%):

This course is designed to help those seeking a Multiple Subject Credential develop the skills knowledge and attitudes necessary to assist schools and districts in implementing effective programs for all students. The successful candidate will be able to merge theory and practice in order to realize a comprehensive and extensive educational program for all students. Students will document their knowledge and understanding of TPE 1A (math) and TPE 2 through assignments completed in EDMS 543.

All University Writing Requirement

All CSU students must demonstrate competency in writing skills as a requirement for graduation. At Cal State San Marcos, students complete the graduation writing assessment through the All-University Writing Requirement. This requirement mandates that every course at the University must have a writing component of at least 2,500 words (approximately 10 pages). The writing requirement for this course will be met through weekly writings, student

interview reflections, the creation of a lesson plan and mathematical resources, and the curriculum analysis assignment.

CSUSM Academic Honesty Policy

Students will be expected to adhere to standards of academic honesty and integrity, as outlined in the Student Academic Honesty Policy. All written work and oral assignments must be original work. All ideas/materials that are borrowed from other sources must have appropriate references to the original sources. Any quoted material should give credit to the source and be punctuated with quotation marks.

Students are responsible for honest completion of their work including examinations. There will be no tolerance for infractions. If you believe there has been an infraction by someone in the class, please bring it to the instructor's attention. The instructor reserves the right to discipline any student for academic dishonesty in accordance with the general rules and regulations of the university. Disciplinary action may include the lowering of grades and/or the assignment of a failing grade for an exam, assignment, or the class as a whole."

GRADING SCALE: Grades for this course will be based on the following grading scale:

Exemplary "A" Students:

- Demonstrate serious commitment to their learning, making full use of the learning opportunities available and searching out the implications of their learning for future use.
- Complete all assignments thoroughly and thoughtfully toward the goal of developing in-depth math projects.
- Make insightful connections between all assignments and their developing overall understanding of mathematical concepts; they continually question and examine concepts in a genuine spirit of inquiry.
- Students show a high level of achievement of course goals.

"B" Students:

- Simply comply with the course requirements and expectations.
- Complete all assignments, usually thoroughly and thoughtfully.
- Usually connect assignments to their developing overall understanding of mathematical concepts; may be satisfied with accepting their learning as it is received without deeply examining concepts or seeking a higher level of understanding.
- Students show reasonable achievement of course goals.

"C" Students:

- Demonstrate an inconsistent level of compliance to course requirements and expectations.
- Complete all assignments with limited thoroughness and thoughtfulness.
- Make limited connections between assignments and their developing overall understanding of mathematical concepts; may not be open to examining concepts on a deeper level and may actually dismiss the importance of such inquiry.
- Attempt, but show limited progress in achieving course goals.

Remember! You are required to maintain a B average (3.0 GPA) in your teacher education courses to receive a teaching credential in the State of California.

Curriculum Review Assignment

EDMS 543

		Nearly		
	Developing	Meets	Meets	Exceeds
TPE 1, 1a	Candidate's	Candidate's	Candidate's	Candidate's
Subject Specific	analysis of the	analysis of the	analysis of the	analysis of the
Pedagogical skills	curriculum will	curriculum will	curriculum will	curriculum will
for MS Teaching	demonstrate little to	demonstrate some	demonstrate	demonstrate
Assignment	no understanding	understanding of	considerable	exceptional
(Teaching	of how to teach the	how to teach the	understanding of	understanding of
Mathematics in a	state adopted	state adopted	how to teach the	how to teach the
MS Assignment)	academic content	academic content	state adopted	state adopted
	standard in	standard in	academic content	academic content
	mathematics.	mathematics.	standard in	standard in
			mathematics.	mathematics.
TPE 4	Candidate's	Candidate's	Candidate's	Candidate's
Making Content	analysis of the	analysis of the	analysis of the	analysis of the
Accessible	curriculum will	curriculum will	curriculum will	curriculum will
	demonstrate little to	demonstrate some	demonstrate	demonstrate
	no understanding in	understanding in	considerable	exceptional
	the use of	the use of	understanding in	understanding in
	pedagogical	pedagogical	the use of	the use of
	strategies that will	strategies that will	pedagogical	pedagogical
	provide all students	provide all students	strategies that will	strategies that will
	access to the	access to the	provide all students	provide all students
	mathematics	mathematics	access to the	access to the
	curriculum.	curriculum	mathematics	mathematics
			curriculum	curriculum
TPE 6, 6a, 6b	Candidate's	Candidate's	Candidate's	Candidates's
Developmentally	analysis of the	analysis of the	analysis of the	analysis of the
Appropriate	curriculum will	curriculum will	curriculum will	curriculum will
Teaching Practices	demonstrate little to	demonstrate some	demonstrate	demonstrate
in Grades K-3 & 4-	no understanding in	understanding in	considerable	exceptional
8	the use of	the use of	understanding in	understanding in
	developmentally	developmentally	the use of	the use of
	appropriate	appropriate	developmentally	developmentally
	teaching practices.	teaching practices	appropriate	appropriate
			teaching practices	teaching practices

Secondary TPE's for this Assignment → TPE 9 – Instructional Planning → TPE 10 – Instructional Time

Lesson Presentation Assignment

EDMS 543

		Nearly			
	Developing	Meets	Meets	Exceeds	
TPE 1, 1a	Candidates' lesson	Candidates' lesson	Candidates' lesson	Candidates' lesson	
Subject Specific	plan and	plan and	plan and	plan and	
Pedagogical skills	presentation	presentation	presentation	presentation	
for MS Teaching	demonstrates little	demonstrates some	demonstrates	demonstrates	
Assignment	to no	understanding of	considerable	exceptional	
(Teaching	understanding of	how to teach the	understanding of	understanding of	
Mathematics in a	how to teach the	state adopted	how to teach the	how to teach the	
Multiple Subject	state adopted	academic content	state adopted	state adopted	
Assignment)	academic content	standard in	academic content	academic content	
	standard in	mathematics	standard in	standard in	
	mathematics		mathematics	mathematics	
TPE 4	Candidates' lesson	Candidates' lesson	Candidates' lesson	Candidates' lesson	
Making Content	plan and	plan and	plan and	plan and	
Accessible	presentation will	presentation will	presentation will	presentation will	
	demonstrate little	demonstrate some	demonstrate	demonstrate	
	to no	understanding in	considerable	exceptional	
	understanding in	the use of	understanding in	understanding in	
	the use of	pedagogical	the use of	the use of	
	pedagogical	strategies that will	pedagogical	pedagogical	
	strategies that will	provide all students	strategies that will	strategies that will	
	provide all students	access to the	provide all students	provide all students	
	access to the	mathematics	access to the	access to the	
	mathematics	curriculum	mathematics	mathematics	
	curriculum		curriculum	curriculum	
TPE 6, 6a, 6b	Candidates' lesson	Candidates' lesson	Candidates' lesson	Candidates' lesson	
Developmentally	plan and	plan and	plan and	plan and	
Appropriate	presentation will	presentation will	presentation will	presentation will	
Teaching	demonstrate little	demonstrate some	demonstrate	demonstrate	
Practices – Grades	to no	understanding in	considerable	exceptional	
K-3 & 4-8	understanding in	the use of	understanding in	understanding in	
	the use of	developmentally	the use of	the use of	
	developmentally	appropriate	developmentally	developmentally	
	appropriate	teaching practices.	appropriate	appropriate	
	teaching practices.		teaching practices.	teaching practices.	

- Secondary TPE's for this Assignment TPE 2 Monitoring Student Learning During Instruction TPE 5 Student Engagement

 - TPE 9 Instructional Planning
 TPE 10 Instructional Time

 - ➢ TPE 11 − Social Environment

Lesson Resources Assignment

EDMS 543

		Nearly		
	Developing	Meets	Meets	Exceeds
TPE 4	Candidates'	Candidates'	Candidates'	Candidates'
Making Content	resources and	resources and	resources and	resources and
Accessible	descriptions will	descriptions will	descriptions will	descriptions will
	demonstrate little	demonstrate some	demonstrate	demonstrate
	to no	understanding of	considerable	exceptional
	understanding of	how instructional	understanding of	understanding of
	how instructional	resources can help	how instructional	how instructional
	resources can help	provide all	resources can help	resources can help
	provide all	students with	provide all	provide all
	students with	access to a	students with	students with
	access to a	balanced and	access to a	access to a
	balanced and	comprehensive	balanced and	balanced and
	comprehensive	curriculum.	comprehensive	comprehensive
	curriculum.		curriculum.	curriculum.

Secondary TPE's for this Assignment

- TPE 1a Subject-Specific Pedagogical Skills for MS Teaching Assignments (Teaching Mathematics in a MS Assignment)
- ➢ TPE 5 − Student Engagement

Student Interviews Assignment

EDMS 543

		Nearly		
	Developing	Meets	Meets	Exceeds
TPE 1, 1a	Candidate's	Candidate's	Candidate's	Candidate's
Subject Specific	assessment and	assessment and	assessment and	assessment and
Pedagogical	recommendations	recommendations	recommendations	recommendations
skills for MS	from the student	from the student	from the student	from the student
Teaching	interview	interview	interview	interview
Assignment	demonstrates little to	demonstrates some	demonstrates	demonstrates
(Teaching	no understanding of	understanding of how	considerable	exceptional
Mathematics in a	how to teach the state	to teach the state	understanding of how	understanding of how
Multiple Subject	adopted academic	adopted academic	to teach the state	to teach the state
Assignment)	content standard in	content standard in	adopted academic	adopted academic
Č ,	mathematics	mathematics	content standard in	content standard in
			mathematics	mathematics
TPE 2	Candidate's	Candidate's	Candidate's	Candidate's
Monitoring	assessment and	assessment and	assessment and	assessment and
Student Learning	recommendations	recommendations	recommendations	recommendations
During	from the student	from the student	from the student	from the student
Instruction	interview	interview	interview	interview
	demonstrates little to	demonstrates some	demonstrates	demonstrates
	no understanding of	understanding of how	considerable	exceptional
	how to monitor	to monitor student	understanding of how	understanding of how
	student learning and	learning and how to	to monitor student	to monitor student
	how to effectively	effectively make use	learning and how to	learning and how to
	make use of this	of this information	effectively make use	effectively make use
	information when	when teaching.	of this information	of this information
	teaching.	0	when teaching.	when teaching.
TPE 3	Candidate	Candidate	Candidate	Candidate
Interpretation	demonstrates little to	demonstrates some	demonstrates	demonstrates
and Use of	no understanding of	understanding of how	considerable	exceptional
Assessments	how to effectively	to effectively assess	understanding of how	understanding of how
	assess students'	students' content	to effectively assess	to effectively assess
	content knowledge	knowledge through	students' content	students' content
	through the use of	the use of student	knowledge through	knowledge through
	student interviews.	interviews.	the use of student	the use of student
			interviews.	interviews.
TPE 4	Candidate's	Candidate's	Candidate's	Candidate's
Making Content	recommendations	recommendations	recommendations	recommendations
Accessible	from the student	from the student	from the student	from the student
	interview	interview	interview	interview
	demonstrates little to	demonstrates some	demonstrates	demonstrates
	no understanding in	understanding in the	considerable	exceptional
	the use of	use of pedagogical	understanding in the	understanding in the
	pedagogical	strategies that will	use of pedagogical	use of pedagogical
	strategies that will	provide all students	strategies that will	strategies that will
	provide all students	access to the	provide all students	provide all students
	access to the	mathematics	access to the	access to the
	mathematics	curriculum	mathematics	mathematics
	curriculum		curriculum	curriculum

Secondary TPE's for this Assignment

TPE 5 – Student Engagement

> TPE 6, 6a, 6b – Developmentally Appropriate Practices in Grades K-3 & Grades 4-8.

> TPE 8 – Learning about Students and TPE 9 – Instructional Planning

DATE	EDMS 543 COURSE TOPICS & ASSIGNMENTS (MON.)	READINGS (Text and Other Sources)
8/28/06	Course Introduction	1- Teaching Mathematics in the Era of
	Why do we do mathematics? (Big picture)	the NCTM Standards
	Conceptual vs. procedural knowledge	
	Characteristics of Effective Classrooms: Overview of Instructional	2 - Exploring What It Means to do
	Practices	Mathematics
	Developing understanding—How do kids learn?	3 - Developing Understanding in
	Teaching through problem solving	Mathematics
	Discussion of Cognitively Guided Instruction	4 -Teaching Through Problem Solving
9/11/06	- Interviews	5 - Planning in the Problem- Based
	- Assessment – Connecting instruction to assessment	Classroom
	- How kids learn through problem solving development	6 - Building Assessment into Instruction
	- Mathematics Content Standards for California Public Schools	This document is available on:
***	Group presentations of assigned standards	http://www.cde.ca.gov/ci/ma/cf/index.asp
9/18/06	Special Populations: Creating Inclusive Classrooms	7 - Teaching Mathematics Equitably to All
5/10/00	Multiple Representations and reaching every learner	Children
	Article summary/critique on Math and Special Populations due	Journal article on math & special needs
	Number Sense I:	9 - Developing Farly Number Concepts
	What it means and how we can help children develop it	and Number Sonso
	PRACTICE INTERVIEW DUE	and Number Sense
9/25/06	Number Sense II:	10 - Developing Meanings for the Operations
	Classification of word problems for addition, subtraction, multiplication.	
	and division.	
	How all children can construct efficient mental tools for fact mastery.	11 - Helping Children Master the Basic Facts
	Number Sense III:	1 8 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	Developing understanding of place value	12 - Whole-Number Place-Value
	Place Value Interview due	Development
10/02/06	Number Sense IV:	13 - Strategies for Whole Number
	Developing flexible methods of computation, mental strategies, and	Computation
	estimation.	1 I
	Building estimation skills	14 – Computational Estimation with Whole
***1	Add/Subtraction OR Multiplication/Division classroom presentation	Numbers
	(Number Sense)	
	Addition/Subtraction OR Multiplication/Division interview due	
	(turn in only one interview)	
***2	Algebra classroom presentation	15 - Algebraic Thinking: Generalizations,
	Algebraic Reasoning and Function – Exploring patterns, variables, and	Patterns, and Functions
	equations. Developing function concepts.	
	Algebra interview due	
10/09/06	Fractions I:	16 - Developing Fraction Concepts
	Constructing understanding of fractions; fraction computation	
***3	Fraction classroom presentation #1 (grades K-4 lesson choice)	17 - Computation with Fractions
	Fraction interview due	18 – Decimal & Percent Concepts and
	Fractions II:	Decimal Computation
***4	Fraction classroom presentation #2 (grades 5-8 lesson choice)	19 – Proportional Reasoning
10/16/06	Measurement - Customary and metric system	20 - Developing Measurement Concepts
***5	Measurement classroom presentation	
	Measurement interview due	21 - Geometric Thinking and Geometric
	Geometry – Developing geometric reasoning and spatial sense	Concepts
***6	Geometry classroom presentation	-
ļ	Geometry interview due	
10/16/06	Probability & Data Analysis - Developing meaningful experiences in	22 - Concepts of Data Analysis
	gathering and displaying statistical data.	23 – Exploring Concepts of Probability
	Exploring concepts of chance, simple and independent events.	24 – Developing Concepts of Exponents,
***7	Probability & Data Analysis classroom presentation	Integers, and Real Numbers
	Probability & Data Analysis interview due	
	CURRICULUM ASSIGNMENT: Last day to turn in	
	Final Taskstream postings	
	Technology – This competency will be infused throughout the course.	8 – Technology and School
	Use this chapter as an ongoing reference.	Mathematics

SB 2042 - Authorization to Teach English Learners Competencies

PART 1: LANGUAGE STRUCTURE AND FIRST- AND SECOND-LANGUAGE DEVELOPMENT	PART 2: METHODOLOGY OF BILINGUAL, ENGLISH LANGUAGE DEVELOPMENT, AND CONTENT INSTRUCTION	PART 3: CULTURE AND CULTURAL DIVERSITY
I. Language Structure and Use: Universals and Differences (including the structure of English)	I. Theories and Methods of Bilingual Education	I. The Nature of Culture
A. The sound systems of language (phonology)	A. Foundations	A. Definitions of culture
B. Word formation (morphology)	B. Organizational models: What works for whom?	B. Perceptions of culture
C. Syntax	C. Instructional strategies	C. Intra-group differences (e.g., ethnicity, race, generations, and micro-cultures)
D. Word meaning (semantics)	II. Theories and Methods for Instruction In and Through English	D. Physical geography and its effects on culture
E. Language in context	A. Teacher delivery for <u>both</u> English language development <u>and</u> content instruction	E. Cultural congruence
F. Written discourse	B. Approaches with a focus on English language development	II. Manifestations of Culture: Learning About Students
G. Oral discourse	C. Approaches with a focus on content area instruction (specially designed academic instruction delivered in English)	A. What teachers should learn about their students
H. Nonverbal communication	D. Working with paraprofessionals	B. How teachers can learn about their students
I. Language Change		C. How teachers can use what they learn about their students (culturally responsive pedagogy)
II. Theories and Factors in First- and Second-Language Development	III. Language and Content Area Assessment	III. Cultural Contact
A. Historical and current theories and models of language analysis that have implications for second-language development and pedagogy	A. Purpose	A. Concepts of cultural contact
B. Psychological factors affecting first- and second-language development	B. Methods	B. Stages of individual cultural contact
C. Socio-cultural factors affecting first- and second-language development	C. State mandates	C. The dynamics of prejudice
D. Pedagogical factors affecting first- and second-language development	D. Limitations of assessment	D. Strategies for conflict resolution
E. Political factors affecting first- and second- language development	E. Technical concepts	IV. Cultural Diversity in U.S. and CA.
		A. Historical perspectives
		B. Demography
		C. Migration and immigration

I. CONSIDERATIONS BEFORE THE LESSON

Facts about the Learners

Who are my students and how do they learn?

What forms of communication do my students use?

Content/Context

Content area(s) or discipline(s) Grade level(s) Content standards addressed Lesson's Objectives Prior knowledge and skills

Product/Assessments

In what varied authentic ways will students demonstrate accomplishment of the objectives?

What criteria will you use to judge students' success for each objective?

Management/Discipline Considerations

What materials and resources are needed? How will you incorporate technology? How will you handle the room arrangement? How will you handle student grouping? How will you handle student transitions and misbehavior?

II. OPENING THE LESSON/ INTO

Anticipatory Set - How will you motivate and focus students?

III. PROCESS/STEPS OF INTRUCTION/ THROUGH

A. Teacher Input

- 1. How will you describe and model skills?
- 2. How will you provide examples and non-examples?
- 3. How will teach to the objective(s)?
- 4. How will you actively involve <u>all students?</u>
- 5. What will the teacher do?
- 6. What will the student do?

B. Guided Practice

- 1. How will students practice alone?
- 2. How will you check for understanding?
- 3. What will your interventions consist of if the objectives are not being met?

C. Independent Practice/Formative Assessment

What benchmark criteria will you look for to assess if students are meeting the objectives?

D. Closure/Summative Assessment

How will you have students summarize their learning? How will you assess students have met the objectives?

IV. AFTER THE LESSON/BEYOND

A. Transfer

How will your structure opportunities for students to continue practice and transfer learning?

B. Reflection

- 1. What went well in the lesson and was it relevant and worthwhile?
- 1. What evidence do you have that the lesson went well?
- 2. What changes will you make to enhance learning?
- **3.** What benefits do these changes have for the students and your effectiveness as a teacher?