CFS 294 - CA Preschool Foundations & Frameworks: Math Course Outline

Approval Date: 05/12/2022
Effective Date: 08/12/2022

SECTION A

Unique ID Number	CCC000632745
Discipline(s)	EarlyChildhood Education
Division	Career Education and Workforce Development
Subject Area	Child Family Studies
Subject Code	CFS
Course Number	294
Course Title	CA Preschool Foundations & Frameworks: Math
TOP Code/SAM Code	1305.00 - Child Development* / C - Occupational
Rationale for adding this course to the curriculum	Dev. to meet exigent circumstances for TK in school districts and the requirement for early education class and the projection that 10000 teachers will need the classes.
Units	1
Cross List	*N/A*
Typical Course Weeks	6
Total Instructional Hours	

	Contact Hours
Lecture	18.00
Lab	0.00
Activity	0.00
Work Experience	0.00
Outside of Class Hours	36.00

Total Contact Hours	18
Total Student Hours	54
Open Entry/Open Exit	No
Maximum Enrollment	20
Grading Option	Letter Grade or P/NP

Distance Education On-Campus
Mode of Instruction Hybrid
Entirely Online

SECTION B

General Education Information:

SECTION C

Course Description

Repeatability May be repeated 0 times

Catalog Description Introduction to the mathematics domain of the California Preschool Learning Foundations and Frameworks including the strands of number sense, algebra and functions, measurement, geometry, and mathematical reasoning. Provides strategies for implementing the curriculum frameworks developed for this domain. Applicable to required or professional development units for Child Development Permit holders, pre-school, transitional kindergarten, and early-primary teachers.

Schedule Description

SECTION D

Condition on Enrollment

1a. Prerequisite(s): *None*

1b. Corequisite(s): *None*

1c. Recommended: *None*

1d. Limitation on Enrollment: *None*

SECTION E

Course Outline Information

1. Student Learning Outcomes:

A. Explain the roles of the California Preschool Learning Foundations and Frameworks in the education of young children and their relationship to the Desired Results Developmental (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
B. Plan environments and experiences to support mathematical learning, based on the observation of children in classroom settings.
C. Articulate the teacher?s role in collaborating with families to support children?s mathematical learning.

2. Course Objectives: Upon completion of this course, the student will be able to:

A. Define the roles of the CA Foundations and Frameworks: Math and their relationship to the Desired Results Developmental Profile (DRDP), California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten).
B. Select and evaluate various materials for mathematics learning.
C. Suggest multiple ways to provide a mathematically rich environment.
D. Describe how the five math domains can be implemented into daily routine, classroom experiences, and in multiple places in the environment.
E. Demonstrate how to use the CA Foundations and Frameworks to plan curriculum experiences for various interests and abilities of children.

F. Describe strategies to support English language learners in developing mathematical knowledge as they concurrently acquire English.
G. Explain the role of partnership with parents and other caregivers in supporting children?s learning of mathematics.
H.

3. Course Content

I. Introduction to the California Preschool Learning Foundations: Mathematics

A. Purpose and use

B. Relationship to the California Common Core State Standards for kindergarten and Content Standards for California Public Schools (kindergarten)

C. Relationship to Desired Results Developmental Profile (DRDP)

II. Math strands

A. Number sense

B. Algebra and functions

C. Measurement

D. Geometry

E. Mathematical reasoning

III. Implementation of the Foundations and Frameworks

A. Recognizing and building on preschool children’s natural interest in mathematics

1. Teachable moments

2. Language of math

B. Intentionally planned experiences

1. Planning based on observation of children’s interests, skills and abilities

2. Use of inquiry and exploration to foster problem solving and mathematical reasoning

3. Use of daily experiences and routines as a vehicle to promote children’s mathematical knowledge

4. Hands-on opportunities to explore math concepts

C. Mathematically rich environments

1. Objects and materials to promote mathematical thinking

2. Objects and materials that are relevant and meaningful to the children in your group

3. Integration of math-related materials into all areas of the classroom

IV. Supporting Englishlanguage learners in developing mathematical knowledge as they concurrently acquire English

V. Partnering with parents and other caregivers in supporting children's learning of mathematics

4. Methods of Instruction:

Discussion:
Lecture:
Projects:
Online Adaptation: Discussion, Lecture
Explain how the online adaptation of the methods of instruction aligns with the course outcomes: The online adaptation will specifically address and assess student SLO attainment through discussions and quizzes, and assignments that require application of content. Instructor will be available for questions and feedback.

2. Methods of Evaluation: Describe the general types of evaluations for this course and provide at least two, specific examples.

Typical classroom assessment techniques

Quizzes -- Multiple Choice and Short Answer quizzes on the purpose of, and the content in, the CA Foundations and Frameworks for Mathematics.
Projects -- Plan experiences for each math strand utilizing research based practices.

Letter Grade or P/NP

3. Assignments: State the general types of assignments for this course under the following categories and provide at least two specific examples for each section.

A. Reading Assignments
   Read Foundations in Mathematics in the California Preschool Learning Foundations.
B. Writing Assignments
   Develop a curriculum plan for each mathematics area and identify teaching strategies for a range of children's abilities.
C. Other Assignments
D.

4. Required Materials

A. EXAMPLES of typical college-level textbooks (for degree-applicable courses) or other print materials.

Book #1:
Author: California Department of Education
Title: CA Preschool Learning Foundations, Volume 1
Publisher: California Department of Education
Date of Publication: 2008
Edition:

Book #2:
Author: California Department of Education
Title: CA Preschool Curriculum Framework, Volume 1

Publisher: California Department of Education
Date of Publication: 2010
Edition:

B. Other required materials/supplies.