

# CHLD 124: MATH FOR CHILDREN

## Citrus College Course Outline of Record

Heading	Value
Effective Term:	Fall 2021
Credits:	2
Total Contact Hours:	36
Lecture Hours :	36
Lab Hours:	0
Hours Arranged:	0
Outside of Class Hours:	72
Strongly Recommended:	ENGL 101.
Transferable to CSU:	Yes
Transferable to UC:	No
Grading Method:	Standard Letter

## Catalog Course Description

The student will gain knowledge of practical mathematics activities to use with preschool and early-school age children. The student will plan developmentally appropriate math curriculum activities. This course focuses on analyzing relevant theories of child development to provide the student with opportunities to evaluate mathematical materials and activities for use in the early childhood education classroom. 36 lecture hours.

## Course Objectives

- describe and explain specific thought processes that inhibit logical thinking during the pre-operational stage of development
- develop, analyze and evaluate developmentally appropriate curriculum activities and experiences that foster logical thought in young children
- demonstrate "events" that occur in the classroom by introducing spontaneous opportunities for comparing, contrasting and sequencing objects and events
- develop and evaluate activities that assist young children to represent and communicate their actions/ideas in abstract forms appropriate to their developmental level
- develop a parent education program that informs and connects families to the mathematical experiences and tasks of children during the preschool and early-school age years

## Major Course Content

1. **Mathematics for Children**
  - a. What is mathematics during Early Childhood?
  - b. Developmentally Appropriate Practice
2. **Theories of Child Development**
  - a. Piaget: classroom implications
  - b. Vygotsky: classroom implications
  - c. Erikson: classroom implications
3. **Curriculum Development**
  - a. A complete math program
  - b. Preschool math

- c. Early school-age math
  - d. Developing curriculum activities
    - i. classification
    - ii. ordering
    - iii. counting
    - iv. numerals
    - v. addition/subtraction
    - vi. geometry
    - vii. measurement
    - viii. connecting math and literacy curriculum
4. **Representation and Communication**
    - a. Speech/reporting
    - b. Pictures/drawings/objects
    - c. Graphing
    - d. Sets/numerals
    - e. Demonstrations
  5. **Parent Education**
    - a. Connecting with Families about Early Childhood Math
    - b. Home-School Math Connections

## Suggested Reading Other Than Required Textbook

Web-link: <http://www.naeyc.org/positionstatements/mathematics>  
National Association for the Education of Young Children: Position Statement Early Childhood Mathematics

## Examples of Required Writing Assignments

1) Create a resource binder of developmentally appropriate math activities for use with preschool and early school-age children in early childhood education settings. 2) Design a developmentally appropriate math program including supplies/materials, environmental design, displays and a math "center."

## Examples of Outside Assignments

1) Observe and evaluate math curriculum in early childhood education classrooms. 2) Survey math curriculum and evaluate for developmental appropriateness.

## Instruction Type(s)

Lecture, Online Education Lecture