

**NOVA COLLEGE-WIDE COURSE CONTENT SUMMARY
CHD 146 – MATH, SCIENCE, AND SOCIAL STUDIES FOR CHILDREN (3 CR.)**

Course Description

Provides experiences in content, methods, and materials for the development of math, science, and social studies skills in children. Emphasis will be on developing strategies for using various resources to facilitate children's construction of knowledge. Addresses strategies for intervention and support for children with special needs and English Language Learners. Lecture 2 hours. Laboratory 2 hours. Total 4 hours per week.

General Course Purpose

To develop the student's skills in preparing, presenting, and evaluating preschool activities in the areas of developing math, science and social studies concepts. The course is designed for educators teaching children in the early childhood age range.

Course Prerequisites/Corequisites

Functional literacy in the English language; reading at the 12th grade level.

Course Objectives

Upon completing the course, the student will be able to:

- a) Describe the developmental characteristics of children as they relate to the areas of math, science, and social studies
- b) Identify materials and procedures for constructing knowledge in the areas of math, science, and social studies for children
- c) Design math, science, and social studies lessons and materials for children based on assessment data
- d) Develop lessons and activities which differentiate instruction for children whose development is atypical or exceptional in the areas of math, science, and social studies
- e) Design and apply assessment strategies for math, science, and social studies activities
- f) Identify the role of culture in learning math, science, and social studies
- g) Identify appropriate learning environments that foster exploration in the areas of math, science, and social studies
- h) Identify and apply appropriate learning standards as they relate to early childhood education

Major Topics to be Included

- a) Play, development and creativity
- b) Developmental levels of math, science and social studies
- c) Creative environments
- d) Communicating with families
- e) Varieties of media appropriate for young children