

# Virginia Western Community College

## CHD 146

### Math, Science, and Social Studies for Children

#### Prerequisites

None

#### 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.

3 credits

**Semester Credits: 3**

**Lecture Hours: 2**

**Lab Hours: 2**

#### Required Materials

1. Textbook(s)
2. Internet access
3. Canvas

#### **Textbook:**

Charlesworth, Rosalind and Karen K. Lind. *Math and Science for Young Children, 8<sup>th</sup> Edition*. Cengage. 2016. ISBN: 9781305088955.

Brophy, Jere, Alleman, Janet, and Anne-Lise Halvorsen. *Powerful Social Studies for Elementary Students, 4<sup>th</sup> Edition*. Cengage. 2018. ISBN: 9780357701904.

#### **Other Required Materials:**

None

## **Course Outcomes**

**At the completion of this course, the student should be able to:**

- Describe the developmental characteristics of children as they relate to the areas of math, science, and social studies.
- Identify materials and procedures for constructing knowledge in the areas of math, science, and social studies for children
- Design math, science, and social studies lessons and materials for children based on assessment data
- Develop lessons and activities which differentiate instruction for children whose development is atypical or exceptional in the areas of math, science, and social studies
- Design and apply assessment strategies for math, science, and social studies activities
- Identify the role of culture in learning math, science, and social studies
- Identify appropriate learning environments that foster exploration in the areas of math, science, and social studies
- Identify and apply learning standards as they relate to math, science, and social studies: the Virginia Foundation Blocks, the Child Development Milestones, the Virginia Standards of Learning, and Core Competencies for Early Childhood Professionals.

## **Topical Description**

1	The developmental progression of concept building in math, science and social studies
2	The importance of working with families to support children's development and success
3	Individualization of instruction for children through assessment
4	Making use of community resources in programming for young children
5	Adapting environments and materials for children's individual needs

### **Notes to Instructors (portfolio requirements)**

1. Submit one **LESSON PLAN AND Reflection** for the Portfolio.

*Reflection: How does this demonstrate your understanding of developmentally appropriate practice?*