

**NorthWest Arkansas Community College Division of Social and
Behavioral Sciences, Education and
Wellness, Legal and Protective Services**

ECTC 2403 (Math & Science for Early Childhood)

Catalog Description:

This course familiarizes students with a variety of ways to introduce children birth through age eight, including children with special needs, to ideas and concepts related to math and science. Students create, plan, and practice developmentally appropriate experiences that meet recognized standards (NAEYC, NCTM, etc.) for these areas. Practical application and theory is provided through a 5-hour field observation. Students may be required to have clear maltreatment and criminal background checks and a current student ID prior to going in the field. This course is part of the Birth through Pre-kindergarten Teaching Credential core.

Prerequisites:

CHED 1003 and CHED 2033

Credit hours/Contact hours/Load hours:

3/3/3

Course Objectives:

- Demonstrate the use of the inquiry method for young children (NAEYC 1a, 1b, 1c, 4b, 4c, 4d,5a, 5b, 5c, 6d)
- Demonstrate the ability to connect with and educate families about math and science concepts for young children (NAEYC 2a, 2b, 2c, 4a, 6b, 6c)
- Apply knowledge of children's growth and development to appropriate teaching strategies (NAEYC 6e)
- Use the Arkansas Child Development Early Learning Standards to develop appropriate goals and objectives for math and science activities and lesson plans
- Develop quality math and science learning environments for young children (NAEYC 6b, 6a,)
- Observe and document children's learning (NAEYC 3a, 3b, 3c)
- Connect research and knowledge with professional practice (NAEYC 6c, 6e)
- Differentiate the process skills needed for math and science experiences (NAEYC 3d)