

**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:**

Students will become familiar with a variety of ways to introduce children Birth through pre-kindergarten, including children with special needs to ideas and concepts related to math and science. Students will create activities plan and practice developmentally appropriate experiences that would meet recognized standards (NAEYC, NCTM, etc.) for these areas.

**Credit Hours/Contact Hours/Load Hours:**

3/3/3

**Learning Outcomes:**

- Demonstrate use of inquiry method for children birth through Pre-kindergarten, including children with special needs (NAEYC 1a, 1b, 1c, 4b, 4c, 4d,5a, 5b, 5c, 6d)
- Demonstrate the ability to connect with families about math and science concepts for children birth through Pre-kindergarten, including children with special needs (NAEYC 2a, 2b, 2c, 4a, 4b, 4c, 4d, 5c, 6b, 6c, 6d)
- Apply knowledge of children's growth to appropriate teaching strategies for children birth through Pre-kindergarten, including children with special needs (NAEYC 1a, 1b, 1c, 4b, 4c, 4d, 5c, 6d, 6e)
- Develop quality math and science learning environments for child birth through pre-kindergarten, including children with special needs. (NAEYC 1a, 1b, 4b, 4c, 4d, 5a, 6b, 5c, 6a, 6d)
- Observe and document children's learning, birth through Pre-kindergarten, including children with special needs (NAEYC 3a, 3b, 3c)
- Connect research and knowledge with professional practice for children birth through pre-kindergarten, including children with special needs. (NAEYC 5c, 6c, 6d, 6e)
- Differentiate the process skills needed for math and science experiences for children birth through Pre-kindergarten, including children with special needs. (NAEYC 3a, 3b, 3c, 3d, 4a, 4b, 4c, 4d, 5b, 5c)