

# NEW COURSES FROM BEACON EDUCATOR

## Math for K-8 Teachers

Number Concepts  
Number Operations  
Space and Shape  
Algebraic Thinking



LEADING EDUCATORS INTO TOMORROW

Supports Florida's NEW Math Standards

Beacon Educator's math program consists of a foundational course introducing the principles of teaching mathematics. Four in-depth courses build on that course by providing closer examination and examples for providing a coherent curriculum that is focused on important topics in mathematics. The National Council of Teachers of Mathematics (NCTM) Principles and Standards for School Mathematics, along with Florida's Next Generation Standards for Mathematics, form the basis for and are integral parts of each course.

**Math:** Introduction to Teaching to Standards 6 pts.

Examine the source and structure of the standards, explore what is known about learning theory in mathematics, and consider issues in teaching and learning mathematics. Analyze conceptual and procedural knowledge, instrumental and relational learning, and environments that emphasize problem-solving applications.

Number Concepts	24 pts.	Learn strategies for teaching whole numbers, place value, fractions and decimals, and estimation and problem solving. Investigate and practice multiple strategies for problem solving.
Number Operations	20 pts.	Investigate strategies for proficiency in number operations, computing fluency, computing with fractions, and computing with decimals. Practice problem solving using number operations to make real-world connections.
Space and Shape	24 pts.	Explore problem solving using two-dimensional and three-dimensional shapes. Identify strategies for teaching accurate measurement, estimation of measurement, and real-world problem solving.
Algebraic Thinking	20 pts.	Make connections between patterns and functions. Explore mathematical models and strategies to increase understanding of quantitative relationships, including problem solving using the analysis of change.

Preview any course at [www.BeaconEducator.com](http://www.BeaconEducator.com)