

## Graduate Credit Available

Each class is \$350 for three semester hours of graduate credit through Marygrove College in Michigan. Marygrove is an NCA accredited institution and is approved by the Ohio Department of Education for educator preparation toward licensure in the state of Ohio

### COURSES OFFERED:

Teacher as Leader, K-12

Instructional Design, K-12

Understanding Teaching & Learning, K-12

Research-Based Strategies for Improving Reading Success, K-6

Fundamentals of Mathematics: Teaching for Conceptual Understanding, grades 2-6

Research-Based Instructional Strategies to Improve Student Achievement, K-12

Research-Based Instructional Strategies with a Mathematics Focus, K-12

Proportional Reasoning in the Middle Grades, grades 6-8

*Fax or mail completed registration to:*

## Knox County ESC

308 Martinsburg Rd.  
Mount Vernon, OH 43050  
Phone: 740-393-6767  
Fax: 740-393-6812  
[www.kcesc.org](http://www.kcesc.org)



If you have any questions, contact:

Bonny Buffington, Consultant,  
KCESC, 740-393-6767

## Professional Development

From Your Knox County  
Educational Service Center

## Online

## Graduate Courses



Serving Children in Knox  
County Schools

Phone: 740-393-6767  
Fax: 740-393-6812

## KCESC Online Courses: Convenient, Self-paced Graduate Study

### Teacher as Leader, K-12

This course introduces participants to current research related to teacher leadership. This course focuses on teacher leaders and examines the specific characteristics of successful teachers. Participants learn leadership strategies, and then apply them in classrooms, schools, and communities. They set personal goals outlining ways they can strengthen their commitment to student learning and achievement.

### Instructional Design, K-12

This course establishes a comprehensive way for teachers to engage in unit planning and instructional design. Based on the intensive backwards-design model (Understanding by Design) of Wiggins & McTighe, teachers learn to "create" curriculum rather than "cover" it. In addition, participants learn how to align their instructional design to state and local standards and to practice ongoing assessment.

### Understanding Teaching & Learning, grades K-12

This course focuses on the intricacies of how people learn. The course covers recent research related to theories of learning and cognition. Participants are asked to apply these theories in their classrooms so that they will use their knowledge of learning theory to strengthen their instructional practices and commitment to student learning and achievement.

### Research-Based Instructional Strategies to Improve Student Achievement, grades K-12

Robert Marzano and his colleagues at Mid-continent Research for Education and Learning (McREL) examined 30 years of research about the effectiveness of specific instructional practices in terms of student achievement and have identified nine strategies that have been proven to increase student success. Research-Based Instructional Strategies to Improve Student Achievement explores the classroom implications of that research by helping participants identify how and when to use these nine strategies in instruction-at any grade level or in any content area.

### Research-Based Strategies for Improving Reading Success, grades K-6

Based on research from the National Reading Panel and consultation with internationally recognized reading specialists, Research-Based Strategies for Improving Reading Success uses best-practices video case studies, specialist commentaries, student work, and collegial collaboration to enable participants to identify sound theories and principles for teaching reading and apply the most effective instructional plans and methods to their practice to improve student learning.

### Proportional Reasoning in the Middle Grades, grades 6-8

This course examines mathematical content and pedagogy related to proportional reasoning, including the concepts of ratio and proportion, geometric properties, and measurement. Teachers' decision making before, during, and after instruction is also covered.

### Fundamentals of Mathematics: Teaching for Conceptual Understanding, grades 2-6

In Fundamentals of Mathematics, participants build content knowledge by moving from procedural to conceptual strategies in the areas of number and operations, measurement, geometry, and algebra. Through analysis of research, specialist commentaries, video-based classroom examples, and student work, teachers examine ways to develop mathematical fluency that lead to continued student improvement.

### Research-Based Instructional Strategies with a Mathematics Focus, grades K-12

This course examines the nine effective instructional strategies identified by Robert Marzano and colleagues in *Classroom Instruction That Works: Research-Based Strategies for Increasing Student Achievement*. The math-specific readings and assignments in this course focus on applying the nine strategies to a mathematics classroom.