



DEEPENING UNDERSTANDING OF
MATHEMATICS TEACHING & LEARNING

Improve your skills teaching mathematics

The College of Education's Mathematics Instructional Leader program is designed for teachers, teacher leaders, and coaches interested in reaching all students and inspiring their development. The courses are designed for those seeking a deeper understanding of the mathematics, how to best engage students in mathematical thinking and problem solving, and ways to support mathematics teaching, learning, leading, and growth within their classroom, school, district, and beyond.

Courses in the series can be taken individually in any order. Those who complete seven courses earn a Certificate of Completion in Deepening Understanding of Mathematics Teaching and Learning. Qualified individuals will have the option to complete a practicum and earn a Mathematics Instructional Leader Specialization (preK-8 or 6-12) through TSPC.

Fall 2019 course (grades preK-12)

Enhancing Algebraic Thinking: Generalizations about Operations – CI 513

CREDITS 3
COURSE # 14497 (or 14498 for HSD Employees)
INSTRUCTORS Nicole Rigelman and Shereen Horton
DATES Tuesdays, October 1 through December 10, 4:30-7:30 pm
LOCATION Hillsboro School District Administration Center, 3083 NE 49th Place Hillsboro, OR 97124

Examine generalizations at the heart of studying operations in the elementary grades. Express generalizations in common language and algebraically, develop representation-based arguments, study what it means to prove, and extend generalizations from whole numbers to integers. Student thinking is at the center of this course through examination of student work.

Winter 2020 course (grades preK-12) **Mathematics Leadership: Influencing & Facilitating Improvement – CI 519**

CREDITS 3
COURSE # TBD
INSTRUCTORS Amy McQueen and Mary Shortino-Buck
DATES Tuesdays, January 6 through March 17, 4:30-7:30 pm
LOCATION Centennial School District Office
 18135 SE Brooklyn St, Portland, OR 97236

Develop an understanding of the role of and the challenges faced by mathematics instructional leaders in their work. Attention to the multiple levels of learning i.e., classroom and the professional learning community within grade-level, building, district, and beyond - each focusing strategies for influencing and facilitating improvement in mathematics instruction.

Spring 2020 course (grades preK-12)

Developing Geometric Thinking and Concepts – CI 515

CREDITS 3
COURSE # TBD
INSTRUCTORS Mary Shortino-Buck and Amy McQueen
DATES Tuesdays, March 31 through June 9, 4:30-7:30 pm
LOCATION Centennial School District Office
 18135 SE Brooklyn St, Portland, OR 97236

Examine aspects of two- and three-dimensional shapes, develop geometric vocabulary, and explore both definitions and properties of geometric objects. Study angle, similarity, congruence, and the relationships between 3-D objects and their 2-D representations. Student thinking is at the center of this course through examination of student work.

Get started

Visit pdx.edu/ci/deepening-math for all course descriptions, schedules, application materials, and the admission process.