

# Advanced Teacher Capacity (ATC)

## Preparing for Four Years of High School Mathematics for All Students

ATC is a professional development (PD) program planned for summer 2010 and the 2010–2011 school year. It is **for mathematics teachers in Grades 8–12** and includes two options:

**Modeling and Spatial Reasoning (ModSpaR)** is a PD program for mathematics teachers in Grades 8–12. The **ModSpaR** institute will be offered at Ohio University in Athens for residential and commuter participants, July 19–23 and 26–30, 2010.

**ModSpaR** begins with a 2-week (60 contact hour) summer workshop focusing on Discrete, Continuous, and Geometric Modeling and Spatial Reasoning. Participants will explore these concepts in-depth using handheld computers and related software and other technology as tools for teaching and learning. In addition, participants will develop a plan to use what they learn in their classrooms. The institute will be followed by on-line support and two 6-hour workshops during the 2010–2011 school year (dates TBA).

The **ModSpaR** institute will provide \$500 worth of materials, access to additional resources, plus food and stipends. Optional graduate credit will be available at a reduced tuition rate through Ohio University Without Boundaries.

**Quantifying Uncertainty and Analyzing Numerical Trends (QUANT)** is a PD program for mathematics teachers in Grades 8–12. The ATC **QUANT** institute will be offered at Ohio University—Chillicothe for commuters only, June 14–18 and August 5–6, 2010.

**QUANT** begins with summer workshops focusing on Data Analysis, Probability, and Statistics. Participants will explore these concepts in-depth using handheld computers and related software and other technology as tools for teaching and learning. In addition, participants will complete three on-line **QUANT** modules during summer 2010 and develop a plan to use what they learn in their classrooms. The institute will be followed by on-line support and two 6-hour workshops during the 2010–2011 school year.

The **QUANT** institute will provide \$500 worth of materials, access to additional resources, plus food and stipends. Optional graduate credit will be available at a reduced tuition rate.

A residential **QUANT** institute will be offered at the Ohio Resource Center, July 5–9, 12–16.

*For questions and further information, contact Mary Harmison at [harmisom@ohio.edu](mailto:harmisom@ohio.edu).*

*To apply, visit <http://www.coe.ohiou.edu/college-offices/dean-office/morton/ATC.htm>*