



East Carolina University®

Tomorrow starts here.

COLLEGE OF EDUCATION

Department of Mathematics, Science, and Instructional Technology Education

According to the National Commission on Mathematics and Science Teaching for the 21st Century, “The teaching pool in mathematics and science is inadequate to meet our current needs; many classes in these subjects are taught by unqualified and underqualified teachers.” This need highlights the focus of the Department of Mathematics, Science, and Instructional Technology Education (MSITE)—to prepare more teachers. To meet this need, we are seeking partners to fund a special master of arts in teaching program that prepares high school science teachers from students who already have a bachelor’s degree in a science discipline. The department also has need for scholarships to attract candidates for the mathematics and science undergraduate programs. To assist the department in encouraging elementary and middle school students to consider careers in science and mathematics, the department needs support for the summer science camp. In particular, there is a need for supporting students from low-income families who are underrepresented in the sciences by providing them scholarships. Finally, the department provides professional development for mathematics and science teachers through an Advanced Placement Institute and a Summer Mathematics Institute. There is need for funding to provide this professional development for teachers as they try to improve their craft.

P R I O R I T I E S A T A G L A N C E

SCHOLARSHIPS AND STUDENT SUPPORT

PRIORITY
* NEED *

- Undergraduate scholarships and graduate fellowships
- Travel for students to attend conferences and make presentations
- Graduate student assistantships

ENDOWED PROFESSORSHIPS AND FACULTY RESEARCH

- Endowed professorships in mathematics and instructional technology

OUTREACH AND PROFESSIONAL DEVELOPMENT

- Advanced Placement Institute (participant fee support and director fee support)
- Mentoring and induction for new teachers (face to face and online)
- Summer Math Institute for in-service middle school math teachers in low-income and low-performing schools/districts (stipends and operational expenses)

STRATEGIC INITIATIVES TO SUPPORT PROGRAMS

- Summer Science Camp (scholarships for high-need students and science kits)
- Pre-college program for grades 6–12 (summer programs and competitions)
- Establish a mobile technology lab to support training, outreach, and recruitment

For more information, contact the Department of Mathematics, Science, and Instructional Technology Education at 252-328-9353, or visit us at www.ecu.edu/cs-educ/msed/MathandScience.cfm.