

# Department of Science, Technology, Engineering and Mathematics Education (STEM)

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Our graduates are recognized as top in their fields throughout the state and nation as they begin their professional careers as teachers of Science, Technology, Engineering and Mathematics (STEM) Education. NC State STEM Education produces competent professionals who have strong subject matter backgrounds and pedagogical skills throughout their fully accredited programs. Departmental majors may seek licensure for teaching high school grades 9-12 or middle grades 6-9. Students in the high school curriculum in education take approximately 45 percent of their program in the College of Sciences and may complete a double major, receiving a second degree in mathematics, statistics, or one of the sciences. Students in Technology, Engineering and Design Education may be licensed as teachers of technology and engineering education programs in middle grades and high schools. All pre-service teaching programs provide a broad background; an in-depth study in mathematics, technology or an area of science; and the development of professional competencies.

In addition, the Technology, Engineering and Design education curriculum provides a non-teaching graphic communications option with a general background for a variety of employment opportunities in business and industry.

The department also offers minors in:

- Graphic Communications (13GCM) (<https://ced.ncsu.edu/program-descriptions/graphic-communications-technology-engineering-and-design-education/>)
- Technology, Engineering and Design Education (13TEM) (<https://ced.ncsu.edu/program-descriptions/minor-in-technology-engineering-design-education/>)

Minors give opportunities for students to develop proficiency in applying graphic techniques in both career and leisure activities or technology based laboratory skills.

The department offers student engagement activities through their active professional organizations that include; Technology and Engineering Education Collegiate Association (TEECA), Epsilon Pi Tau International Honor Society for Professions in Technology, North Carolina Council of Teachers of Mathematics (NCCTM)-Kappa Student Chapter, and the National Science Teachers Association (NSTA Student Chapter)

The Department of STEM Education is located in Poe Hall, Suite 510.

For more information about this department, including contact information, visit our w (<https://ced.ncsu.edu/stem-ed/undergraduate/>)ebsite (<https://ced.ncsu.edu/stem-ed/undergraduate/>).

## Contact

**Christy Buck**

Student Services Coordinator

[cjbuck@ncsu.edu](mailto:cjbuck@ncsu.edu)

Website (<https://ced.ncsu.edu/stem-ed/undergraduate/>)

## Faculty

### Department Head

A. C. Clark, *Department Head*

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### Program Coordinator, Undergraduate Programs for Science Education

WM Reynolds, *Assistant Teaching Professor*

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### Program Coordinator, Undergraduate Programs for Technology, Engineering & Design Education

K. G. Sutton, *Assistant Teaching Professor*

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### Program Coordinator, Undergraduate Programs for Mathematics Education

C. Edgington, *Assistant Teaching Professor*

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## Professors

M.R. Blanchard, *Science Education*

A. C. Clark, *Technology, Design and Engineering Education*

K.F. Hollebrands, *Outstanding Teacher for College of Education, Mathematics Education*

C. Johnson, *Science Education*

M.G. Jones, *Alumni Distinguished Graduate Professor, Science Education*

H.S. Lee, *Mathematics Education*

S. Park, *Science Education*

E. Wiebe, *Science Education*

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## Associate Professors

C. Delgado, *Science Education*

C. Denson, *Technology, Engineering & Design Education*

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## Assistant Professors

R. K. Anderson, *Mathematics Education*

K.C. Busch, *Science Education*

S. Byun, *Mathematics Education*

Ruby Ellis, *Mathematics Education*

T. Jones, *Technology, Engineering & Design Education*

E. E. Krupa, *Mathematics Education*

B. Matthews, *Engineering & Technology Education*

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## Teaching Assistant Professors

C.P. Edgington, *Mathematics Education*

M. Franzen, *Technology, Education and Design Education*

J.P. Newby, *Engineering & Technology Education*

S. L. Miller, *Technology, Engineering and Design Education*

K. G. Sutton, *Technology, Engineering and Design Education*

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## Alumni Distinguished Undergraduate Professor

J. L. Crow

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## Professors emeriti

N. D. Anderson, *Mathematics Education*

J. Confrey, *Joseph D. Moore Distinguished Professor of Mathematics Education*

W. J. Haynie, *Technology, Engineering & Design Education*

J. R. Kolb, *Outstanding Teacher for College of Education, Science Education*

J. E. Penick, *Science Education*

L. V. Stiff, *Mathematics Education*

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## Associate professors emeriti

T. J. Branoff, *Technology, Engineering and Design Education*

G. S. Carter, *Science Education*

V. W. DeLuca, *Technology, Engineering & Design Education*

L. W. Watson, *Mathematics Education*

J. H. Wheatley, *Science Education*

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## Assistant Professor Emeritus

W. J. Vanderwall, *Graphic Communications*

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## Teaching Assistant Emeritus

A. Y. Scales, *Graphic Communications*

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## Lecturer Emeritus

J. F. Freeman, *Graphic Communications*

## Plans

- Graphic Communications (Minor) (<http://catalog.ncsu.edu/undergraduate/education/stem/graphic-communications-minor/>)
- Mathematics Education (BS) and Mathematics (BS) (Double Major) (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-mathematics-bs-double-major/>)
- Mathematics Education (BS) and Statistics (BS) (Double Major) (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-statistics-bs-double-major/>)
- Mathematics Education (BS): Computer Specialization (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-computer-specialization/>)
- Mathematics Education (BS): Mathematics Specialization (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-mathematics-specialization/>)
- Mathematics Education (BS): Middle Grades Mathematics Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-middle-grades-mathematics-concentration/>)
- Mathematics Education (BS): Statistics Specialization (<http://catalog.ncsu.edu/undergraduate/education/stem/mathematics-education-bs-statistics-specialization/>)
- Mathematics Education, Secondary (<http://catalog.ncsu.edu/undergraduate/education/stem/math-education-secondary/>)
- Middle Grades Education (BS), Mathematics and Sciences Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/middle-grades-education-bs-mathematics-sciences-concentration/>)
- Science Education (BS): Biology Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-bs-biology-concentration/>)
- Science Education (BS): Chemistry Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-bs-chemistry-concentration/>)
- Science Education (BS): Earth Science Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-bs-earth-science-concentration/>)
- Science Education (BS): Middle Grades Science Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-bs-middle-grades-science-concentration/>)
- Science Education (BS): Physics Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-bs-physics-concentration/>)

- Science Education, Secondary (<http://catalog.ncsu.edu/undergraduate/education/stem/science-education-secondary/>)
- Technology, Engineering and Design Education (BS), Graphic Communication Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/technology-engineering-design-education-bs-graphic-communication-concentration/>)
- Technology, Engineering and Design Education (BS): Licensure Concentration (<http://catalog.ncsu.edu/undergraduate/education/stem/technology-engineering-design-education-bs-licensure-concentration/>)
- Technology, Engineering and Design Education (Minor) (<http://catalog.ncsu.edu/undergraduate/education/stem/technology-engineering-design-education-minor/>)