

COLLEGE OF SCIENCE AND ENGINEERING

Dean

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Associate Dean

Chad Booth, Ph.D.

Associate Dean

Paula Williamson, Ph.D.

Assistant Dean

Gregory B. Passty, Ph.D.

Department Chairs/School Directors

Biology—Dittmar Hahn, Ph.D.
Chemistry and Biochemistry—William J. Brittain, Ph.D.
Computer Science—Hongchi Shi, Ph.D.
Engineering—Jesus Jimenez, Ph.D.
Engineering Technology—James Wilde, Ph.D.
Mathematics—Susan Morey, Ph.D.
Physics—Mark W. Holtz, Ph.D.

The College of Science and Engineering has a triple mission:

Preparing students for careers in science, technology, engineering, mathematics (STEM) and STEM education and imparting core knowledge in science and mathematics to all students.

Providing an environment in which faculty can develop and sustain nationally prominent research programs.

Serving the citizens of Texas and the nation with educational and research programs that facilitate innovation and economic development.

To ensure an understanding of basic scientific and engineering concepts, the college offers extensive opportunities for student participation. Students gain experience in laboratories, interact with the environment through field studies, conduct undergraduate research, participate in design experiences and train using technologically advanced instrumentation. A combination of student participation, rigorous classroom instruction, and "hands on" experiences gives majors a competitive advantage in career advancement or in the selection of professional or graduate programs. The non-science major is assured of adequate scientific knowledge to make informed decisions essential to citizens in a science-oriented, technological world.

The seven academic units in the College of Science and Engineering are the Departments of Biology, Chemistry and Biochemistry, Computer Science, Engineering Technology, Mathematics, Physics, and the Ingram School of Engineering.

Majors offered in the College include applied mathematics, aquatic biology, biochemistry, biology, chemistry, civil engineering, computer science, concrete industry management, construction science and management, electrical engineering, engineering technology, industrial engineering, manufacturing engineering, mathematics, mechanical engineering, microbiology, physics, and wildlife biology. In addition, pre-professional concentrations are available for students interested in pursuing a career in physician assistant, dentistry, medicine, and

pharmacy programs. Four programs offer a double major with education for students who wish to teach in a secondary education program.

Academic Advising Center

Centennial Hall Room 202
T: 512-245-1315 F: 512-245-9210
www.cose.txstate.edu/advising (<http://www.cose.txstate.edu/advising/>)

The College of Science and Engineering Undergraduate Academic Advising Center advises current students on academic and administrative issues. Students are informed about matters related to academic general education core requirement, the selection of an appropriate major and minor, the selection of appropriate courses, transfer and correspondence courses, academic probation/suspension, the choice of an educational program leading to a bachelor's degree, and participation in pre-professional concentrations. The Advising Center is a resource for current students who are considering a science or engineering major and provides assistance for students applying for graduation. Career and professional counseling are available in the academic unit of the student's major and through Career Services.

Teacher Certification

Currently, there are four programs that offer a double major with education leading to the Texas science- and math- related teacher certification.

- Chemistry (double major with B.S. in Chemistry and Education)
- Life Sciences (double major with B.S. in Biology and Education)
- Mathematics (double major with B.S. in Mathematics and Education)
- Physics/Mathematics (double major with B.S. in Physics and Education)

Students interested in a double major with education are strongly encouraged to see a Science and Engineering Advisor early in their undergraduate program.

Minors

- Second Teaching Field in Physical Science (Grades 6-12) (<http://mycatalog.txstate.edu/undergraduate/science-engineering/second-teaching-field-physical-science/>)