The mission of the College of Science and Engineering is threefold: to prepare students for careers in the natural sciences, mathematics, computer science, engineering, or technology; to provide general scientific and mathematical backgrounds for non-science majors; and to prepare students for advanced training in professional or graduate schools. To accomplish its mission the College maintains an academic atmosphere conducive to excellence in teaching and research and enforces high standards of performance for faculty and students.

To ensure an understanding of basic scientific concepts, the College offers extensive opportunities for student participation. Students gain experience in laboratories, interact with the environment through field studies, conduct undergraduate research, and train in technologically advanced instrumentation. A combination of student participation, rigorous classroom instruction, and library research gives majors a competitive advantage in career advancement or in the selection of professional or graduate colleges. 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, Mathematics, Physics, and Engineering Technology, and the Ingram School of Engineering.

Majors include applied mathematics, aquatic biology, biochemistry, chemistry, computer science, electrical engineering, engineering technology, biology, industrial engineering, manufacturing engineering, mathematics, microbiology, physics, technology management, and wildlife biology. In addition, pre-professional programs of study are available in dentistry, medicine, and pharmacy. Secondary teacher certification may be incorporated into some of the majors.

The Bachelor of Science (B.S.) major in Interdisciplinary Science is designed to broadly train students in a wide spectrum of science disciplines in preparation for the Science teacher certification exam for grades 7 through 12. Admission into the program requires both admission to the university and to the Teacher Preparation Program. The Teacher Preparation Program admittance requirements are found in the College of Education section of this catalog. Students successfully completing the program and the Science teacher certification exam will be prepared to teach any high school science subject and in informal science educational settings within communities. There is a high job market need for science teachers nationally and in Texas. Students must enroll and complete all of the required courses in the following degree plan in order to sit for the teacher certification exam.

Bachelor of Science (B.S.)

- Major in Interdisciplinary Studies (Teacher Certification in Science, Grades 7-12) (http://mycatalog.txstate.edu/undergraduate/science-engineering/interdisciplinary-teacher-certification-grades-7-12-bs)
Minors

- Second Teaching Field in Life Science (Grades 7-12) (http://mycatalog.txstate.edu/undergraduate/science-engineering/second-teaching-field-life-science)
- Second Teaching Field in Physical Science (Grades 6-12) (http://mycatalog.txstate.edu/undergraduate/science-engineering/second-teaching-field-physical-science)

Information about graduate programs can be found in the Graduate Catalog (http://mycatalog.txstate.edu/graduate).