In addition to the Departments of Biology, Chemistry, Mathematics, Physics and Astronomy, and Statistics, the College of Science includes the Cyclotron Institute, a research institute that emphasizes fundamental studies of nuclear science in which both undergraduate and graduate students participate. The College of Science offers MS and PhD programs in various departments.

General Degree Requirements

Degree requirements for science majors are organized into:

1. general requirements, including University Core Curriculum requirements and College of Science requirements;
2. requirements of the major field of study;
3. requirements of the minor field of study for those students completing a BA degree; and
4. electives.

With the exception of physical activity and general elective requirements, courses taken to satisfy degree requirements must be taken for letter grades.

Students are responsible for selecting the courses in their degree plan and assuring they abide by Texas A&M University Student Rules in meeting all degree requirements. Each department has advisors who should be consulted in developing degree programs.

General Requirements

General requirements include those which are required in every degree program at the University. Please refer to these requirements defined in the University Core Curriculum and graduation requirements in foreign language sections of this catalog. Special guidelines should be noted in the following categories:

American History

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>U.S. history course</td>
<td>6</td>
</tr>
</tbody>
</table>

Students seeking teacher certification must complete HIST 105 and HIST 106.

Three hours in history may be substituted by successfully completing the required four semesters of upper-level ROTC curriculum.

Government/Political Science

<table>
<thead>
<tr>
<th>Course</th>
<th>Credit Hours</th>
</tr>
</thead>
<tbody>
<tr>
<td>POLS 206</td>
<td>3</td>
</tr>
<tr>
<td>POLS 207</td>
<td>3</td>
</tr>
</tbody>
</table>

Total Semester Credit Hours 6

Three hours in political science may be substituted by successfully completing the required four semesters of upper-level ROTC curriculum.

International and Cultural Diversity Requirements

The International and Cultural Diversity portion of the Graduation requirements may be fulfilled by 6 hours from the approved list of courses (see the International and Cultural Diversity requirements page). These
Major Field of Study

Each department sets its own requirements for the major. At least 12 semester hours in the major must be completed in advanced courses (300- or 400-level) in residence at Texas A&M.

Minor Field of Study

The BA degree requires a minor field of study or an area of emphasis for students pursuing teacher certification. A minor requires 15–18 semester hours in one discipline. Six of these hours must be advanced (300- or 400-level) courses. Students must contact the department offering the minor to determine course requirements. Students pursuing a BS degree may select an optional minor. Contact the department offering the minor to determine course requirements. Students must declare a minor no later than the date on which they apply for graduation.

Electives

Electives should be chosen to enhance the student’s degree program and/or complete professional school prerequisites if not contained in required courses in the degree plan. Elective courses must be above the minimum level required in other areas of the degree program. For example, MATH 102 is not acceptable because it is below the minimum requirement of calculus. Also, introductory courses to another field of study such as BIMS 101 and AQLS 101 will not count toward degree requirements. Lower-level ROTC courses are not acceptable as electives. Please consult an advisor when selecting electives.

Curricular Options

Honors Program

The College of Science participates in the University Honors Program designed to offer the superior student special opportunities for academic work of a range and depth appropriate to his or her capabilities and greater intellectual interests. For further information, refer to the section regarding the University Honors Program.

Cooperative Education Program

Cooperative education enables students to gain practical work experience and a salary while completing academic requirements. During the four-year academic program, co-op students complete two to four periods of work away from campus, gaining experience through on-the-job training and thus improving their opportunities for future employment. The Cooperative Education Office provides additional information about this program.

Minor Field of Study

Each department in the College of Science offers a minor. Students interested in pursuing a minor in a field in the College should contact the department offering the minor.

Summer Internships

A number of programs are available throughout the country which offer summer employment to students interested in specific fields of study and training. Each departmental advisor has information pertaining to these programs.
Early Admission Program
The College of Science offers two methods of awarding a baccalaureate
degree to students who gain admission to professional school prior to
completion of their degree. The Baccalaureate Degree Option for Students
Granted Early Admission to Medical/Professional Programs is available to
all students regardless of their major.

Most students complete a four-year program prior to acceptance to
professional school and thus it is advised a degree program leading to a
standard baccalaureate degree be selected.

Veterinary Medicine
Please refer to the Admission Requirements—Professional Curriculum
listed in the College of Veterinary Medicine and Biomedical Sciences.

Other Allied Health Programs
There are many allied health fields students may prepare for through
degree programs in the College of Science. Prerequisite requirements for
admission should be completed as part of a degree granting program.

Teacher Certification
The Secondary Teaching Certificate may be obtained in conjunction with
a major in the College of Science. Requirements for teacher certification
may be found at the aggieTEACH (http://aggieteach.tamu.edu) website.

Curricula in University Studies
The College of Science has four different University Studies degree plans.
A University Studies Degree generally consists of a concentration of 21-24
hours and two minors of 15-18 hours each. Some concentrations and
minors contain required courses that have additional prerequisites. One of
the two minors must be completed in a college outside of the College of
Science. The student’s diploma will list Bachelor of Science in University
Studies. The student’s area of concentrations and the two minors will be
indicated on the student’s transcript.

Interested students must complete the online application and have
necessary minor field approvals. The degree plans and applications may
be found at www.science.tamu.edu/academics/degrees.php.

Majors

College of Science
• Bachelor of Science in University Studies, Mathematics for Business
Concentration
• Bachelor of Science in University Studies, Mathematics for Teaching
Concentration
• Bachelor of Science in University Studies, Mathematics for Pre-
Professionals Concentration
• Bachelor of Science in University Studies, Mathematics for Secondary
Teaching Concentration

Department of Biology
• Bachelor of Arts in Biology
• Bachelor of Science in Biology
• Bachelor of Science in Microbiology
• Bachelor of Science in Molecular and Cell Biology
• Bachelor of Science in Zoology

Department of Chemistry
• Bachelor of Arts in Chemistry
• Bachelor of Arts in Chemistry, Biological Chemistry or Medical, Dental,
Pharmacy School Track
• Bachelor of Arts in Chemistry, Chemical Education Track
• Bachelor of Arts in Chemistry, Environmental Chemistry Track
• Bachelor of Science in Chemistry
• Bachelor of Science in Chemistry, Biological Chemistry Track
• Bachelor of Science in Chemistry, Environmental Chemistry Track

Department of Mathematics
• Bachelor of Arts in Mathematics
• Bachelor of Science in Mathematics
• Bachelor of Science in Applied Mathematical Sciences, Actuarial
Emphasis
• Bachelor of Science in Applied Mathematical Sciences, Biological
Science Emphasis
• Bachelor of Science in Applied Mathematical Sciences, Computational
Emphasis
• Bachelor of Science in Applied Mathematical Sciences, Economics
Emphasis
• Bachelor of Science in Applied Mathematical Sciences, Math
Emphasis
• Bachelor of Science in Applied Mathematical Sciences, Statistics
Emphasis

Department of Physics and Astronomy
• Bachelor of Arts in Physics
• Bachelor of Science in Physics

Minors

Department of Biology
• Biology Minor

Department of Chemistry
• Chemistry Minor

Department Mathematics
• Mathematics Minor

Department of Physics
• Astrophysics Minor
• Physics Minor

Department of Statistics
• Statistics Minor

Masters

Department of Biology
• Master of Science in Biology
• Master of Science in Microbiology
Department of Chemistry
  • Master of Science in Chemistry

Department of Mathematics
  • Master of Science in Mathematics

Department of Physics and Astronomy
  • Master of Science in Physics

Department of Statistics
  • Master of Science in Analytics
  • Master of Science in Statistics

Doctoral

Department of Biology
  • Doctor of Philosophy in Biology
  • Doctor of Philosophy in Microbiology

Department of Chemistry
  • Doctor of Philosophy in Chemistry

Department of Mathematics
  • Doctor of Philosophy in Mathematics

Department of Physics and Astronomy
  • Doctor of Philosophy in Physics
  • Doctor of Philosophy in Applied Physics

Department of Statistics
  • Doctor of Philosophy in Statistics