

# Biochemistry | Bachelor's Degree

|                                                       | FIRST YEAR                                                                                                                                                                                                                                                                                                                                                                                    | MIDDLE YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | LAST YEARS                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| <b>ADVANCE</b><br>your academic journey               | <p>Learn the <a href="#">Chemistry Readiness Program</a> requirements to meet your coursework demands.</p> <p>Meet with a <a href="#">First Year Advisor</a> to develop your academic planning.</p> <p>Take advantage of the <a href="#">Student Learning Assistance Center</a> (Tutoring).</p> <p>Participate in the <a href="#">Experiential Education Certificate Program</a>.</p>         | <p>Schedule appointments with the COSE <a href="#">Advising Center</a> and follow registration instructions for course guidance.</p> <p>Regularly check the <a href="#">curricula and flowchart</a> pre-requisites and co-requisites for courses that may change over time.</p> <p>Meet with a faculty mentor to select an undergraduate research opportunity.</p> <p>Check out the <a href="#">Collaborative Learning Center's (CLC) computer lab</a>, free walk-in STEM tutoring, and resources like a textbook library and TI-83+ calculators to enhance your learning.</p>                                                     | <p>Check your Degree Audit &amp; meet with your academic advisor.</p> <p>Meet with a faculty mentor or peer advisor.</p> <p>Complete a capstone project related to major.</p> <p>Explore next steps including potential graduate programs.</p> <p>Create and update a digital portfolio of academic work and experiences.</p>                                                                                                                  |
| <b>EXPAND</b><br>your personal and social development | <p>Join <a href="#">science and engineering student organizations or clubs</a> to connect with others majoring within the college.</p> <p>Review your degree plan for courses that include the <a href="#">Service-Learning Excellence</a> program.</p> <p>Begin expanding your student experience by joining a student organization through the <a href="#">Bobcat Organization HUB</a>.</p> | <p>Consult your academic advisor and learn about <a href="#">chemistry scholarship opportunities</a>.</p> <p>Participate in <a href="#">Women in STEM initiatives</a> and the <a href="#">Hispanic and Latino STEM Mentoring Program (HLSAMP)</a>.</p> <p>Attend a <a href="#">Nonprofit and Volunteer Fair</a> from <a href="#">Student Involvement</a> to jump into meaningful service in TXST's community.</p> <p>Participate in <a href="#">The Big Event</a> to give back to the regional community.</p> <p>Discover <a href="#">Global Online Learning Experiences</a> for courses with culturally dynamic perspectives.</p> | <p>Select a service activity through <a href="#">Student Involvement</a> to give back to the area community.</p> <p>Seek out a leadership role with the <a href="#">Leadership &amp; Service</a>.</p> <p>Attend financial literacy workshops (e.g., budgeting, student loans, taxes).</p> <p>Attend a <a href="#">Student Government</a> Senate meeting to contribute to your fellow students and your own student experience.</p>             |
| <b>ENRICH</b><br>your practical competence            | <p>Explore the <a href="#">TXST One Stop</a> for more information about the scholarships provided to new and continuing students.</p> <p>Consider the <a href="#">STEM Communities Learning Assistance</a> program.</p> <p>Attend an <a href="#">IDEA Center</a> workshop to learn more about undergraduate research.</p>                                                                     | <p>Attend <a href="#">chemistry seminars and events</a> to connect with cutting edge leaders and topics.</p> <p>Consider the <a href="#">STEM Communities Learning Assistance</a> program.</p> <p>Check out the <a href="#">National Science Foundation (NSF) Research Experiences for Undergraduates (REU) Summer Program</a>.</p> <p>Get internship guidance from the <a href="#">internship staff in Career Services</a>.</p> <p>Learn about <a href="#">Global Career Accelerator</a> options that give you experience with global companies and in-demand tech skills.</p>                                                    | <p>Explore <a href="#">Undergraduate Research Opportunities</a> to gain hands-on experience and build research skills alongside faculty mentors.</p> <p>Join a professional organization in your major or passion.</p> <p>Attend a conference related to your major (get recommendations from a faculty) or your student organization.</p> <p>Deliver a presentation in a student conference, workshop, seminar or community organization.</p> |
| <b>ELEVATE</b><br>your career and professional life   | <p>Complete your <a href="#">Career Assessments</a>, such as Focus2.</p> <p>Create your <a href="#">Handshake</a> profile.</p> <p>Create your <a href="#">LinkedIn</a> profile and connect with colleagues and leaders.</p> <p>Develop and review your <a href="#">resume</a> with Career Services.</p>                                                                                       | <p>Build <a href="#">Career &amp; Graduate School Fairs</a> into your schedule to ensure your connection maximum opportunities.</p> <p>Develop your <a href="#">resume</a> with the help of the professionals at <a href="#">Career Services</a>.</p> <p>Join <a href="#">Employer Information Sessions</a> at Career Services or your department.</p> <p>Prepare to <a href="#">ace your job interviews</a> with Career Services or your academic department.</p>                                                                                                                                                                 | <p>Develop a full-time employment or graduate school plan with <a href="#">Career Services</a>.</p> <p>Attend <a href="#">employer info sessions</a> at Career Services.</p> <p>Identify faculty and professional references.</p> <p>Complete your <a href="#">First Destination Survey</a> to share your post-graduation plans.</p>                                                                                                           |

## OUTCOMES

### Marketable Skills

Think critically

Analyze and solve problems

Communicate clearly and effectively

Explain complex ideas through technical writing and presentations

Record, process, analyze, and summarize data

Safely operate in a biochemistry laboratory environment

[See more marketable skills for this major](#)

### Career Opportunities

Forensic science technician

Pharmaceutical researcher

Forensic scientist

Science writer

Microbiologist

Biotechnology scientist

Biochemist

Quality control analyst

Biologist

Toxicologist

Research scientist

Biochemistry professor

Biochemical engineer

Agricultural scientist

### Experiences in Biochemistry

The bachelor of science with major in biochemistry is an American Chemical Society approved program focusing on the structure and composition of living systems, as well as the chemical reactions that develop in these systems and ways to control them. The Department of Chemistry and Biochemistry has access to a wide range of state-of-the-art instrumentation and resources to support student learning and research. Some students may be required to participate in the chemistry readiness program in preparation for college-level coursework. Each semester, a speaker series is conducted which covers a wide range of topics in the field of chemistry and students are supported in research initiatives and professional development. Internships, membership in student organizations and opportunities to participate in Education Abroad or Study in America are available options for further experience.