

# B.S. IN CHEMISTRY/ BIOCHEMISTRY (6-12 PHYSICAL SCIENCE TEACHER CERTIFICATION)

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**Web Site:** <https://twu.edu/chemistry-biochemistry/undergraduate-programs/bs-in-chemistrybiochemistry-with-teacher-certification/>

## Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (<https://reportcenter.highered.texas.gov/agency-publication/miscellaneous/theqb-60x30-strategic-plan/>) as, "Those skills valued by employers that can be applied in a variety of work settings, including interpersonal, cognitive, and applied skills areas. These skills can be either primary or complementary to a major and are acquired by students through education, including curricular, co-curricular, and extracurricular activities."

## Degree Skills

- a. As a member of an undergraduate teaching lab team and research team, you will learn how to work and communicate with diverse team members.
- b. Writing laboratory reports, papers, senior theses coupled with presenting your work to your peers, at conferences, or to the general public, you will gain valuable verbal and written communication skills.
- c. With our departmental focus on civic engagement and laboratory safety as our first priority, you will understand social and personal responsibility.
- d. Earning a degree in any field of chemistry naturally requires excellent problem solving and critical thinking skills related to chemistry, these skills can also be used to address other issues and solve other problems.

## Teacher Certification Skills

- a. Appropriately explain the impact of effective planning and communication (within the chosen area of concentration) to relevant internal and external stakeholders in an education or community setting.
- b. Identify, select, and implement entry-level instructional plans when serving as an instructor in the school setting.
- c. Successfully manage organizational and student behavior when teaching in the school setting.
- d. Efficiently and accurately assess student progress and use data to develop and modify instruction for K-12 students.
- e. Work effectively and collaboratively with students and families from diverse backgrounds.