

# BACHELOR OF SCIENCE IN BIOLOGY (7-12 LIFE SCIENCE CERTIFICATION)

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**Web Site:** <https://twu.edu/biology/undergraduate-programs/bachelor-of-science-in-biology-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. Written and oral communication skills.
- b. Demonstrate critical thinking by using logic and reasoning to interpret scientific results.
- c. Ability to design and conduct properly controlled experiments.
- d. Utilize modern scientific instruments and methods.
- e. Work collaboratively as part of a team to perform, analyze, and present research.
- f. Ability to understand and comply with laboratory safety guidelines.

## 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.