

# GRADUATE CERTIFICATE IN TEACHING STEM IN DEAF EDUCATION

MATH 5333	Technology in the Math Classroom	3
<b>Total SCHs</b>		<b>15</b>

This 15 semester credit hour certificate facilitates integration of methodological approaches for teaching STEM content within environments for students who are deaf/hard of hearing (DHH). The program includes online academic coursework and a practicum experience. The certificate program is offered to students enrolled in TWU's M.S. in Education of the Deaf (<https://twu.edu/communication-sciences-oral-health/communication-sciences-coms/coms-programs/ms-in-education-of-the-deaf-online/>) program and to certified teachers of the deaf who are teaching STEM and want a focus in deaf ed STEM instruction.

## Marketable Skills

Defined by the Texas Higher Education Coordinating Board's 60x30 Strategic Plan (<https://reportcenter.highered.texas.gov/agency-publication/miscellaneous/the-cb-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."

1. Effectively create evidence-based STEM learning opportunities for successfully educating children who are deaf/hard of hearing.
2. Effectively teach STEM content to linguistically and culturally diverse students who are deaf/hard of hearing.

## Admissions

All students must meet the University requirements as outlined in the Admission to the TWU Graduate School (<https://catalog.twu.edu/graduate/graduate-school/admission-graduate-school/>) section of the catalog.

The academic program may have additional admission criteria that must also be completed as outlined on the program's website.

## Degree Requirements

### Total Semester Credit Hours Required

15 semester credit hours (SCH).

The required coursework includes 12 SCH of online academic classes and 3 SCH of a practicum experience working with students who are deaf or hard of hearing. Program students must earn grades of A or B in all classes and successfully pass a practicum experience.

Code	Title	SCHs
BIOL 5033	Advanced Science in the Secondary Classroom	3
COMS 5193	Instructional Processes and Facilitating Language in Deaf Education	3
COMS 5923	Instructional Practicum in Deaf Education	3
MATH 5203	Problem Solving in the Math Classroom	3