

ACCELERATED B.A. IN MATHEMATICS (7-12 MATHEMATICS CERTIFICATION) / M.S. IN MATHEMATICS

Web Site: <https://twu.edu/mathematics/undergraduate-programs/>

Marketable Skills

Degree Skills

- a. Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.
- b. Prepare and deliver lectures to students, prepare and evaluate assignments on mathematics topics taught in public schools.
- c. Determine appropriate methods for data analysis.
- d. Perform computations and apply methods of numerical analysis to data.
- e. Demonstrate personal accountability and work habits, integrity, and ethical behavior.
- f. Assemble sets of assumptions and explore the consequences of each set.
- g. Proficient in the software tools to achieve the skills listed, such as Matlab, SAS, Geogebra, and Desmos.

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.