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BACHELOR OF ARTS IN MATHEMATICS (7-12 MATHEMATICS CERTIFICATION)

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

Marketable Skills

Marketable skills prepare students for success in a variety of professional settings. Developed through academic coursework, co-curricular engagement, and extracurricular involvement, these skills include communication, critical thinking, teamwork, ethical reasoning, adaptability, and digital literacy. Whether directly related to a student's major or serving as complementary strengths, marketable skills enhance career readiness and reflect TWU's commitment to producing graduates who are prepared to thrive in today's dynamic workforce.

Degree Skills

- Apply mathematical theories and techniques to the solution of practical problems in business, engineering, the sciences, or other fields.
- Develop mathematical or statistical models of phenomena to be used for analysis or for computational simulation.
- 3. Determine appropriate methods for data analysis.
- 4. Perform computations and apply methods of numerical analysis to
- Demonstrate personal accountability and work habits, integrity, and ethical behavior.
- Assemble sets of assumptions and explore the consequences of each set.
- 7. Proficient in the software tools to achieve the skills listed, such as Matlab and R, SAS, SPSS, modeling software.

Teacher Certification Skills

- 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.
- 2. Identify, select, and implement entry-level instructional plans when serving as an instructor in the school setting.
- 3. Successfully manage organizational and student behavior when teaching in the school setting.
- 4. Efficiently and accurately assess student progress and use data to develop and modify instruction for K-12 students.
- Work effectively and collaboratively with students and families from diverse backgrounds.