The Mathematics Minor at UNT

Requirements

- Math 1710 and 1720 (Calculus I and II)
- Plus two additional mathematics courses numbered above Math 1720, which will often be Math 2700 (linear algebra) and Math 2730 (multivariable calculus).
- Plus two advanced (3000 or 4000 level) mathematics courses.
- Elementary education majors interested in a mathematics minor may use Math 1350 or Math 1351 in place of one of the lower-level courses above.

Advanced Courses

Students should generally choose their TWO advanced courses in consultation with one of the undergraduate advisors in the mathematics department. The following are common course selections:

**Engineering Majors**
- Math 3410: Differential Equations
- Math 3350: Numerical Analysis
- Math 3420: Differential Equations II
- Math 3680: Applied Statistics
- Math 3740: Vector Calculus
- Math 3850: Mathematical Modeling
- Math 4100: Fourier Analysis
- Math 4520: Complex Variable

**Computer Science Majors**
- Math 3350: Numerical Analysis
- Math 3400: Number Theory
- Math 3410: Differential Equations
- Math 3680: Applied Statistics
- Math 4100: Fourier Analysis
- Math 4430: Graph Theory
- Math 4450: Matrix Theory

**Business and Economics Majors**
- Math 3000: Real Analysis I
  (econ majors interested in econ Ph.D. programs)
- Math 3350: Numerical Analysis
- Math 3680: Applied Statistics
- Math 3740: Vector Calculus
- Math 4610: Probability

Business and economics majors may also want to consider the certificate in Actuarial Science or the minor in statistics

**Physics Majors**
- Math 3410: Differential Equations
- Math 3420: Differential Equations II
- Math 3740: Vector Calculus
- Math 3850: Mathematical Modeling
- Math 4100: Fourier Analysis
- Math 4200: Dynamical Systems
- Math 4450: Matrix Theory
- Math 4520: Complex Variable
- Math 4610: Probability

**Biology and Chemistry Majors**
- Math 3350: Numerical Analysis
- Math 3410: Differential Equations
- Math 3680: Applied Statistics
- Math 3850: Mathematical Modeling

**Elementary Education Majors**
- Math 3680: Applied Statistics
- Math 3400: Number Theory
- Math 3000: Real Analysis I
- Math 3410: Differential Equations

Note to students considering a double major in mathematics: Math 1780 cannot be applied to mathematics majors. Students who want to keep the option of a double major in mathematics open to them should take Math 4610 in place of Math 1780.