# 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

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

### 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

### 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.