Bachelor of Arts with a major in Mathematics
College of Science Advising Center
Hickory Hall 283; (940) 369-8606; COSAdvising@unt.edu

Major Requirements (continued)

- **Algebra:**
  - MATH 3400: Number Theory
  - MATH 3510: Introduction to Abstract Algebra I
  - MATH 4010: Introduction to Mathematics
  - MATH 4430: Introduction to Graph Theory
  - MATH 4450: Introduction to the Theory of Matrices
  - MATH 4510: Abstract Algebra II

- **Probability/Statistics:**
  - MATH 3680: Applied Statistics
  - MATH 4610: Probability
  - MATH 4650: Statistics

- **Geometry/Topology:**
  - MATH 3740: Vector Calculus
  - MATH 4060: Foundations of Geometry
  - MATH 4500: Introduction to Topology

- **3 additional hours of advanced math from MATH 3350 or higher.**

Minor Requirements

- **One of the following is required:**
  - A minor of 18 hours (6 advanced). A minor in statistics does not fulfill this requirement.
  - Completion of a second major in addition to mathematics.
  - Completion of the Actuarial Science certificate.

Required Courses for Degree

- **Foreign Language Requirement Options:**
  - 6 hours in one language – Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish, or American Sign Language
  
  OR

  - 6 hours chosen from technical writing courses – TECM 2700, 4180, 4190, or 4250

- **CSCE 1010:** Introduction to Computer science or **CSCE 1030:** Computer Science I

- **3 additional hours of advanced math from MATH 3350 or higher.**

- **Three lab sciences; see advisor for guidance on best options**
  - CHEM 1410 & 1430: General Chemistry I with Laboratory
  - CHEM 1420 & 1440: General Chemistry II with Laboratory
  - PHYS 1710 & 1730: Mechanics with Laboratory
  - PHYS 2220 & 2240: Electricity & Magnetism with Laboratory
  - BIOL 1710 & 1760: Biology for Science Majors I with Laboratory

This is an unofficial simplified checklist effective fall 2019. Degree requirements are subject to change, please check with an advisor for any updates. All students are required to earn a minimum of 120 total hours and 36 advanced hours, check with an advisor to see if electives are necessary for your degree.
University Core Requirements

Communication (English Composition):
- ENGL 1310: College Writing I
- ENGL 1320: College Writing II or TECM 2700: Technical Writing
Creative Arts:
- Choose from approved list
Language, Philosophy, & Culture:
- Choose from approved list

American History to 1865:
- HIST 2610
American History since 1865:
- HIST 2620

Federal Government/Political Science:
- PSCI 2305

State Government/Political Science:
- PSCI 2306

Social & Behavioral Sciences:
- Choose from approved list

Bachelor of Science in Mathematics
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Major Requirements (continued)

- Algebra: (MATH 3510 required of chosen for depth)
  - MATH 3400: Number Theory
  - MATH 3510: Introduction to Abstract Algebra I
  - MATH 4010: Introduction to Mathematics
  - MATH 4430: Introduction to Graph Theory
  - MATH 4450: Introduction to the Theory of Matrices
  - MATH 4510: Abstract Algebra II

- Probability/Statistics:
  - MATH 3680: Applied Statistics
  - MATH 4610: Probability
  - MATH 4650: Statistics

- Geometry/Topology:
  - MATH 3740: Vector Calculus
  - MATH 4060: Foundations of Geometry
  - MATH 4500: Introduction to Topology

- 6 additional hours of advanced math from MATH 3350 or higher.

Minor Requirements

- One of the following is required:
  - A minor of 18 hours (6 advanced). A minor in statistics does not fulfill this requirement.
  - Completion of a second major in addition to mathematics.
  - Completion of the Actuarial Science certificate.

Required Courses for Degree

- 6 hours in one language – Arabic, Chinese, French, German, Italian, Japanese, Latin, Russian, Spanish, or American Sign Language

OR

- 6 hours chosen from technical writing courses – TECM 2700, 4180, 4190, or 4250

- CSCE 1010: Introduction to Computer science or CSCE 1030: Computer Science I

OR

- One of the following laboratory science options; see advisor for guidance on best options
  - CHEM 1410 & 1430: General Chemistry I with Laboratory
  - CHEM 1420 & 1440: General Chemistry II with Laboratory
  - Any laboratory science

OR

- PHYS 1710 & 1730: Mechanics with Laboratory
  - PHYS 2220 & 2240: Electricity & Magnetism with Laboratory
  - Any laboratory science

OR

- BIOL 1710: Biology for Science Majors I
  - BIOL 1720: Biology for Science Majors II
  - BIOL 1760: Biology for Science Majors Laboratory
  - Any laboratory science

This is an unofficial simplified checklist effective fall 2019. Degree requirements are subject to change, please check with an advisor for any updates. All students are required to earn a minimum of 120 total hours and 36 advanced hours, check with an advisor to see if electives are necessary for your degree.