Bachelor of Science in Physics
2022 - 2023 Degree Requirements Checklist

College of Science Admission Requirement
Students must demonstrate proficiency in College Algebra by placing into Math Level 2 or higher through the UNT Math Placement Exam OR completing College Algebra or higher with a grade of C or higher.

Major Requirements
- One of the following:
  o PHYS 1710 & 1730: Mechanics & Lab (4hrs) (C or higher)
  o PHYS 1510 & 1530: General Physics I with Calculus & Lab (4hrs) (C or higher)
  o PHYS 1410 & 1430 and 1420 & 1440: General Physics I and II & Labs (8hrs)
- One of the following:
  o PHYS 2220 & 2240: Electricity & Magnetism & Lab (4hrs)
  o PHYS 1520 & 1540: General Physics II with Calculus & Lab (4hrs)
- PHYS 3010 & 3030: Modern Physics & Lab (4hrs)
- PHYS 3210: Mechanics (3hrs)
- PHYS 3310: Mathematical Methods in the Physical Sciences (3hrs)
- PHYS 3420: Electronics (4hrs)
- PHYS 3510: Physics, Computation, and Software Applications (3hrs)
- PHYS 4110: Statistical and Thermal Physics (3hrs)
- PHYS 4210: Electricity and Magnetism (3hrs)
- PHYS 4310: Quantum Mechanics (3hrs)
- PHYS 4950: Physics Senior Thesis (3hrs)
- PHYS 4955: Physics Senior Thesis Capstone (3hrs)
- Nine additional hours of advanced physics courses

Concentrations available for BS Physics
See Physics Faculty Advisor for more information on concentrations
- Concentration in Engineering Physics
- Concentration in Astrophysics
- Concentration in Computation

Other Required Courses for Degree
- MATH 1710: Calculus I (4hrs) (C or higher)
- MATH 1720: Calculus II (3hrs) (C or higher)
- MATH 2700: Linear Algebra and Vector Geometry (3hrs)
- MATH 2730: Multivariable Calculus (3hrs)
- MATH 3410: Differential Equations I (3hrs)
- CHEM 1410 & 1430: General Chemistry I & Lab (4hrs) (C or higher)
- CHEM 1420 & 1440: General Chemistry II & Lab (4hrs)

University Core Requirements
Communication – English Composition and Rhetoric (6hrs total)
  C or higher required for English core
  - ENGL 1310: First-Year Writing I (3hrs)
  - ENGL 1320: First-Year Writing II (3hrs) or TECM 2700: Technical Writing (3hrs)
Mathematics (at least 3hrs total)
  - Double-dips with major requirement
Laboratory Sciences (at least 6hrs total)
  - Double-dips with major requirement
Creative Arts (3hrs total)
  - See catalog or online degree audit for acceptable options
Language, Philosophy, & Culture (3hrs total)
  - See catalog or online degree audit for acceptable options
American History (6hrs total)
  - HIST 2610: US History to 1865 (3hrs)
  - HIST 2620: US History since 1865 (3hrs)
Government/Political Science (6hrs total)
  - PSCI 2305: (3hrs)
  - PSCI 2306: (3hrs)
Social & Behavioral Sciences (3hrs total)
  - See catalog or online degree audit for acceptable options
Component Area Option (6hrs total)
  - Double-dips with major requirement

Additional University Requirements
- Minimum of 120 total hours
- Minimum of 36 advanced hours
- Minimum 2.5 GPA on all advanced science, math, and engineering courses
- Minimum 2.000 UNT GPA
- Minimum 2.000 Overall GPA

College of Science Advising Center
Hickory Hall 283; (940) 369-8606; COSAdvising@unt.edu
This is an unofficial simplified checklist effective Fall 2022. Degree requirements and pre-requisites are subject to change, please check with an advisor for any updates. Online catalog - http://catalog.unt.edu/