Bachelor of Science: Major in PHYSICS, Option I
2013-2014 Catalog Year

University Core Requirements

- 120 total semester hours
  - A minimum of 30 hours must be completed at UNT
- 42 advanced hours
  - 24 advanced hours must be completed at UNT, including 12 advanced hours in your major
  - A minimum of 46 hours in major
  - A minimum 2.5 GPA in all advanced-level science and mathematics courses required for the degree.

Requirements

**English**: 6 hours
ENGL 1310/1313, TECM 1700 ________
ENGL 1320/1323, TECM 2700 ________

=Math: 3 hours
MATH 1710 ________

Laboratory Sciences: 2 courses
CHEM 1410/1430 ________
CHEM 1420/1440 ________

Visual and Performing Arts: 3 hours
Choose from approved list ________

Humanities: 3 hours
Choose from approved list ________

US History: 6 hours
HIST 2610 ________
HIST 2620 ________

American Government: 6 hours
PSCI 1040 ________
PSCI 1050 ________

Social and Behavioral Sciences: 3 hours
Choose from approved list ________

Discovery: 3 hours
See approved list ________

Capstone: 3 hours
See approved list (PHYS 4955 recommended)
See attached handout for University Core requirements approved list

Major Requirements

- PHYS 1710/1730 Mechanics + Laboratory
- PHYS 2220 Electricity & Magnetism + Laboratory
- PHYS 3010/3030 Modern Physics + Laboratory
- PHYS 3210 Mechanics
- PHYS 3310 Math Methods in Physical Science
- PHYS 3420 Electronics
- PHYS 4110 Statistical & Thermal Physics
- PHYS 4210 Electricity & Magnetism
- PHYS 4310 Quantum Mechanics
- PHYS 4950 Physics Senior Thesis
- PHYS 4955 Physics Senior Thesis Capstone

Select 9 hours advanced-level physics courses from those listed below:

- PHYS 3220 Mechanics II
- PHYS 4150 Experimental Physics I
- PHYS 4160 Experimental Physics II
- PHYS 4170 Experimental Physics III
- PHYS 4220 Electromagnetic Waves
- PHYS 4350 Advanced Modern Physics I – Atomic & Molecular
- PHYS 4360 Advanced Modern Physics II – Nuclear & Particle
- PHYS 4420 Physical Optics
- PHYS 4500 Introduction to Solid-State Physics
- PHYS 4520 Physics of Nano-scale Materials
- PHYS 4550 Modern Classical Dynamics
- PHYS 4600 Computer Based Physics
- PHYS 4650 Introduction to Modern Astrophysics
- PHYS 4710 Foundations of Theoretical Physics

Additional BS Degree Requirements

- MATH 1710 Calculus I
- MATH 1720 Calculus II
- MATH 2700 Linear Algebra & Vector Geometry
- MATH 2730 Multivariable Calculus
- MATH 3410 Differential Equations I
- CHEM 1410/1430 General Chemistry I + Laboratory
- CHEM 1420/1440 General Chemistry II + Laboratory
- CSCE 1020 Program Development

Academic Advising

To schedule an appointment with a CAS Academic Advisor, please call 940-565-2051.

Undergraduate Advisor: Cheryl Lawler
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