

University of North Georgia

2025-2026 Undergraduate Catalog

Physics (B.S.)

Location(s): [Dahlonega](#)

120 hours

Core IMPACTS - 42 hours

Refer to [Core IMPACTS](#)

Institution: No exceptions

Mathematics: MATH 1113 or MATH 1450

Citizenship: No exceptions

Humanities: No exceptions

Writing: No exceptions

STEM: CHEM 1211 / 1211L and CHEM 1212 / 1212L and MATH 1450 or MATH 2460 (if MATH 1450 was taken in IMPACTS Mathematics) recommended

Social Sciences: No exceptions

Field of Study - 18 hours

Required Courses

- [PHYS 2211 - Principles of Physics I](#)
- [PHYS 2211L - Principles of Physics I Lab](#)
- (or [PHYS 2211K - Principles of Physics I](#))
- [PHYS 2212 - Principles of Physics II](#)
- [PHYS 2212L - Principles of Physics II Lab](#)
- (or [PHYS 2212K - Principles of Physics II](#))

Select one:

- [CSCI 1301 - Computer Science I](#)
- [CSCI 1301K - Computer Science I](#)
- [CSCI 1371 - Computing for Scientists and Engineers](#)

For Students with MATH 1113 in Mathematics

- [MATH 2460 - Calculus II](#)
- [MATH 2470 - Calculus III](#)

For Students with MATH 1450 in Mathematics

- [MATH 2470 - Calculus III](#)
- 2 carryover hours from Core IMPACTS Mathematics and STEM
- 1 elective hour in any 1-2000 level ENGR or Core IMPACTS STEM course (except MATH 1113 or CSCI 1250) if CSCI 1371 is taken

Major Requirements - 60 hours

Required Courses

- [PHYS 1000 - Physics and Society](#)
- [PHYS 3111 - Mechanics I](#)
- [PHYS 3310 - Modern Physics](#)
- [PHYS 3310L - Modern Physics Laboratory](#)
- [PHYS 3411 - Electricity and Magnetism I](#)
- [PHYS 3610 - Thermal Physics](#)
- [PHYS 3991 - Research Practicum I: Planning and Proposing Research](#)
- [PHYS 4350 - Quantum Mechanics](#)
- [PHYS 4410 - The Physics of Energy](#)
- [PHYS 4991 - Research Practicum II: Performing and Writing Scientific Research](#)
- [PHYS 4992 - Research Practicum III: Performing and Presenting Scientific Research](#)

Physics Courses and Technical Electives

- Nine hours of upper-level physics or upper-level astronomy courses (up to three credit hours research)
- Up to three hours of PHYS 2901, 2902, and 2903 can count toward this requirement.
- Nine hours computer science, math, engineering, upper-level geography, upper-level astronomy, or upper-level physics courses
- Math courses must be numbered 2000 or above

Electives

- Electives to bring the total number of credit hours to 120 (including at least 39 upper-level credit hours)

Other Requirements

- [MATH 3000 - Differential Equations](#)
- Modern Language (1002 or higher if not taken in Core IMPACTS Institution)

- US and Georgia History Requirements
 - US and Georgia Constitution Requirements
 - Regents' Skills Program Requirements
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