

Physics at NKU

Our Majors:

B.A. in Physics:

- 58 credit hours
- Good for a double major with mathematics, engineering technology, education, or computer science

B.S. in Physics:

- 76 credit hours
- Good for students planning to attend graduate school in physics/engineering

What's so great about Physics at NKU:

- Small class sizes
- Caring faculty
- Physics & Astronomy Club
- Social events
- Research opportunities

Research with us:

- glass and carbon nanotubes
- computational physics
- Astrophysics
- Black holes

Questions about the Physics program at NKU?

Visit our website!



www.nku.edu/physics

Or come visit our department!

Contact:

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Required Coursework for Physics Majors:

Core Courses for Physics B.S. (52 credits)

- PHY 100 Science, Engineering, and Design (1 credit)
- PHY 220 University Physics with Laboratory I - SL (4 credits)
- PHY 222 University Physics with Laboratory II (4 credits)
- PHY 224 University Physics with Laboratory III (4 credits)
- PHY 300 Intermediate Physics Laboratory (2 credits)
- PHY 301 Advanced Physics Laboratory (2 credits)
- PHY 310 Dynamics (3 credits)
- PHY 320 Physical Optics (3 credits)
- PHY 330 Mathematical Physics (3 credits)
- PHY 360 Thermodynamics (3 credits)
- PHY 361 Modern Physics I (3 credits)
- PHY 393 Physics Seminar (1 credit)
- PHY 405 Classical Mechanics (3 Credits)
- PHY 410 Electromagnetic Theory (4 credits)
- PHY 420 Modern Physics II (3 credits)
- PHY 460 Quantum Mechanics (3 credits)
- Select two 300/400-level PHY or AST course (6 credits)

Core Courses for Physics B.A. (34 credits)

- PHY 100 Science, Engineering, and Design (1 credit)
- PHY 220 University Physics with Laboratory I - SL (4 credits)
- PHY 222 University Physics with Laboratory II (4 credits)
- PHY 224 University Physics with Laboratory III (4 credits)
- PHY 300 Intermediate Physics Laboratory (2 credits)
- PHY 310 Dynamics (3 credits)
- PHY 360 Thermodynamics (3 credits)
- PHY 361 Modern Physics I (3 credits)
- PHY 393 Physics Seminar (1 credit)
- Select 9 credit hours of PHY or AST at the 300 level or above (9 credits)

For both Physics B.S. and B.A.:

Courses in Other Disciplines (24 credits)

- CHE 120 General Chemistry I - NS (3 credits)
- CHE 120L General Chemistry I Laboratory - SL (1 credit)
- CHE 121 General Chemistry II (3 credits)
- CHE 121L General Chemistry II Laboratory (1 credit)
- MAT 129 Calculus I - QR (4 credits)
- MAT 229 Calculus II (5 credits)
- MAT 329 Calculus III (4 credits)
- MAT 325 Differential Equations (3 credits)