

PHYSICS

Minimum courses required: 11

Continuation in mathematics through differential equations is highly recommended and is needed for students who plan to attend graduate school in physics.

Capstone Experience: All majors in their junior and senior year are required to participate in a research project for one semester or for a summer. Each student is required to write a report and give an oral presentation about the project.

<u>Course requirement</u>	<u>Semester Taken</u>
1. PHYS 170: Introductory Physics I or Phys 180: Introductory Physics I Enhanced	_____
2. PHYS 171: Introductory Physics II or Phys 181: Introductory Physics II Enhanced	_____
3. PHYS 225: Modern Physics	_____
4. PHYS 311: Classical Mechanics	_____
5. PHYS 350: Experimental Physics	_____

At least **three** of the following four core courses: Students planning to attend graduate school in physics or astronomy should take all four of the courses below:

- PHYS 298: Modern Physics II
- PHYS 310: Statistical and Thermal Physics
- PHYS 314: Electric and Magnetic Fields
- PHYS 370: Quantum Mechanics

6. _____	_____
7. _____	_____
8. _____	_____

TWO or more of the following courses:

- PHYS 110: Electronic Circuits
- PHYS 226: Optics
- PHYS 227: Remote Sensing
- AST 302: Astrophysics
- PHYS 360: Geophysics
- PHYS 398: Mathematical Physics
- PHYS 398: Computational Physics
- PHYS 398: Electric and Magnetic Fields II

9. _____	_____
10. _____	_____
11. MATH 236: Multivariable Calculus	_____

Recommended courses outside the department:

MATH 221, Linear Algebra, and MATH 212, Differential Equations, are highly recommended for students planning on pursuing graduate school in astronomy, engineering, physics or related fields. Computer programming is also recommended.