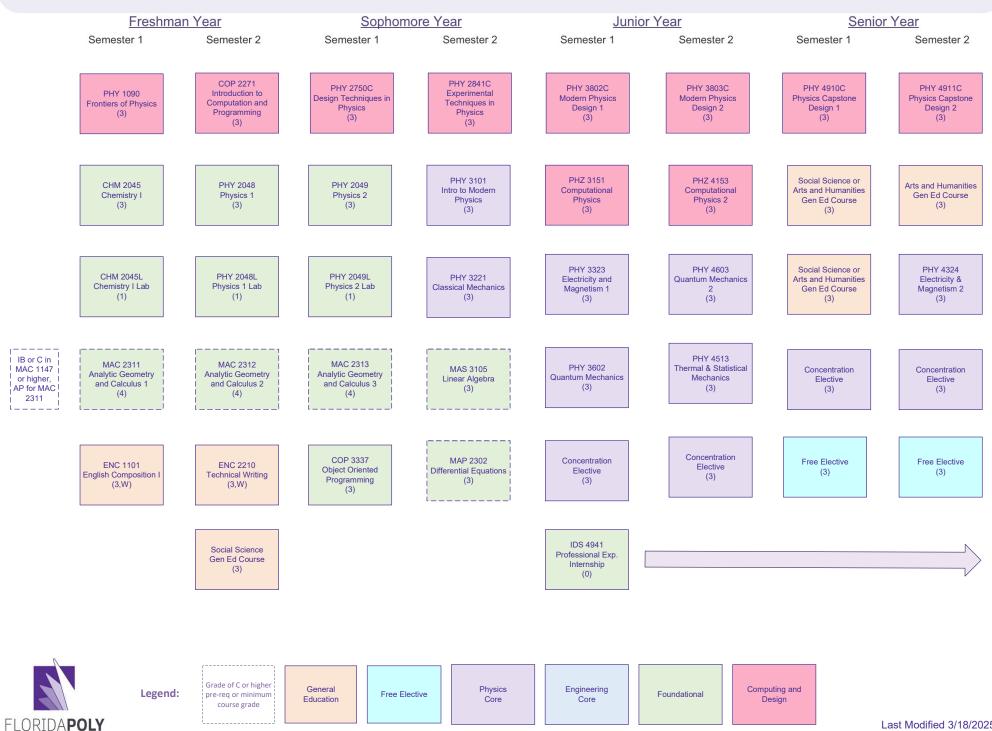
BS in Physics

2025-2026 Catalog



Last Modified 3/18/2025

BS in Physics Concentrations and General Education

Arts, Humanities, and Social Sciences

Arts & Humanities

A total of 12 credit hours must be completed in the arts, humanities, and social sciences. Select 3 to 9 credits from the following courses:

At least one course (3 credits) from the following state required list:

- ARH 2000 Art Appreciation Credits: 3
- HUM 2020 Introduction to the Humanities Credits: 3
- LIT 2000 Introduction to Literature Credits: 3
- PHI 2010 Introduction to Philosophy Credits: 3
- MUL 2010 Music Appreciation Credits: 3

Optional additional course elective:

 IDS 2144 - Legal, Ethical, and Management Issues in Technology Credits: 3

Social Sciences

A total of 12 credit hours must be completed in the arts, humanities, and social sciences. Select 3 to 9 credits from the following courses.

At least one course (3 credits) from the following state required list:

- AMH 2010 American History to 1877 Credits: 3
- AMH 2020 American History Since 1877 Credits: 3
- ECO 2013 Principles of Macroeconomics Credits: 3
- POS 2041 American Government Credits: 3
- PSY 2012 General Psychology Credits: 3

Optional additional course elective:

• ECO 2023 - Principles of Microeconomics Credits: 3

Advanced Topics (12)

Select 2 (6 credits) 3000 level or above AST, PHY, or PHZ prefixed courses and two (6 credits) additional technical courses from the list below or any 3000 or above level approved computing, engineering, mathematics, or science courses (Prefixes include AST, CAI, CAP, CDA, CEN, CIS, CNT, COT, EAS, EEL, EGN, EML, MAA, MAC, MAD, MAS, MAT, MAP, MHF, MTG, PHY, and PHZ).

Technical Course List:

- EML 3015 Fluid Mechanics Credits: 3
- EEL 3111 Circuits 1 Credits: 3
- EEL 3112 Circuits 2 Credits: 3
- EGN 3311 Statics Credits: 3
- EGN 3321 Dynamics Credits: 3
- EGN 3331 Strength of Materials Credits: 3
- EGN 3343 Engineering Thermodynamics Credits: 3
- EGN 3365 Structure and Properties of Materials Credits: 3
- EAS 4505 Orbital Mechanics Credits: 3

Astrophysics (12)

Select 4 courses from the list below:

- AST 3222 Introduction to Astrophysics Credits: 3
- PHZ 3601 Special Relativity Credits: 3
- AST 4217 Stellar Astrophysics Credits: 3
- AST 4300 Galaxies and the Universe Credits: 3
- EAS 4505 Orbital Mechanics Credits: 3

Applied Quantum (12)

Select 4 courses from the list below:

- PHY 3445 Laser Physics Credits: 3
- PHY 3650 Quantum Information and Computing Credits: 3
- PHZ 3442 Semiconductor Physics Credits: 3
- PHZ 4308 Nuclear and Subatomic Physics Credits: 3
- PHZ 4444 Solid State Physics Credits: 3

