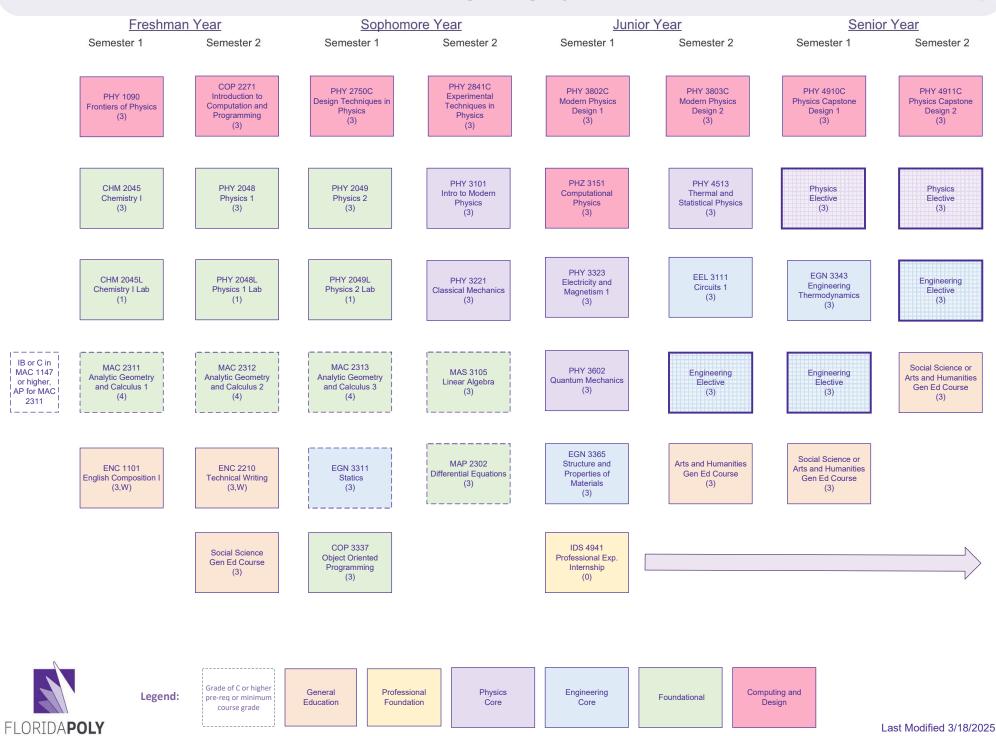
BS in Engineering Physics

2025-2026 Catalog



BS in Engineering Physics Program Electives and General Education

Program Electives

Engineering Electives

Select 3 courses (9 credits) from the list below:

- EAS 4200 Introduction to Aero Structures Credits: 3
- EAS 4505 Orbital Mechanics Credits: 3
- EEL 3287 Renewable Energy and Sustainability Credits: 3
- EEL 3702 Digital Logic Design Credits: 3
- EEL 4283 Renewable Energy Systems Credits: 3
- EEL 4660 Autonomous Robotic Systems Credits: 3
- EGN 3321 Dynamics Credits: 3
- EGN 3331 Strength of Materials Credits: 3
- EGN 4334 Mechanics of Composite Materials Credits: 3
- EIN 3390 Manufacturing Processes Credits: 3
- EML 3015 Fluid Mechanics Credits: 3
- EML 4140 Heat Transfer Credits: 3
- EML 4541 Fatigue and Fracture Mechanics Credits: 3
- EML 4833 Human Robotics Credits: 3

Physics Electives

Select 2 courses (6 credits) from the list below:

- PHZ 3442 Semiconductor Physics Credits: 3
- PHZ 4308 Nuclear and Subatomic Physics Credits: 3
- PHZ 4444 Solid State Physics Credits: 3
- AST 4217 Stellar Astrophysics Credits: 3
- AST 3222 Introduction to Astrophysics Credits: 3
- AST 4300 Galaxies and the Universe Credits: 3
- PHY 3445 Laser Physics Credits: 3
- PHY 3650 Quantum Information and Computing Credits: 3
- PHY 4324 Electricity and Magnetism 2 Credits: 3
- PHZ 3601 Special Relativity Credits: 3
- PHZ 4153 Computational Physics 2 Credits: 3

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

