

ENGINEERING PHYSICS MAJOR

Requirements

Students majoring in engineering physics are required to take the following courses:

First Year		Credits
PHYS 1601	Introduction to Physics I	4
PHYS 1602	Introduction to Physics II	4
MATH 1206	Calculus I	4
MATH 1207	Calculus II	4
Credits		16
Second Year		
PHYS 2005	Introduction to Modern Physics	4
MATH 2004	Multivariable Calculus I	4
MATH 2005	Multivariable Calculus II	4
PHYS 2201	Classical Mechanics I	4
A two-semester introductory sequence in either biology or chemistry		10 to 12
Credits		26-28
Third Year		
PHYS 3001	Electricity and Magnetism I	4
PHYS 3013	Experimental Techniques in Engineering and Physics	3
PHYS 3101	Math Methods in Physics I	4
PHYS 3401	Thermo and Stat Physics	4
Two related engineering electives		8
Credits		23
Fourth Year		
Two related engineering electives		8
Credits		8
Total Credits		73-75

The minimum acceptable grade in all courses required for a degree in physics or engineering physics is a C-. All majors must meet with their faculty adviser each semester prior to registration to have their course schedules approved.

Physics and engineering physics majors are expected to take all required major courses at Fordham. Exceptions may be made on a case-by-case basis for certain rare and compelling reasons. Under no circumstances can more than two external courses be transferred toward the major.

3-2 Cooperative Program in Engineering

Students enrolled in the 3-2 Cooperative Program in Engineering complete the requirements for the physics degree through the junior year. They then transfer to an engineering program and complete an additional two years. They earn a double bachelor's degree in physics and engineering.

Availability

The major in engineering physics is available at Fordham College at Rose Hill. Students in Fordham's School of Professional and Continuing

Studies may major in engineering physics only if they receive the approval of their advising dean and/or department, and their schedules are sufficiently flexible to permit them to take day courses at the Rose Hill campus.

Fordham College at Rose Hill students: The requirements above are in addition to those of the Core Curriculum.

Professional and Continuing Studies students: The requirements above are in addition to those of the PCS Core Curriculum and any additional electives that may be required to earn a minimum of 124 credits.

CIP Code

14.1201 - Engineering Physics/Applied Physics.

You can use the CIP code to learn more about career paths associated with this field of study and, for international students, possible post-graduation visa extensions. Learn more about CIP codes and other information resources.