

Student Information

Name: _____ OSU Email: _____

Suggested Curriculum

This should be used as a **guide** only. Semester offerings are subject to change.

Year	Autumn	Spring
1	___ Physics 1270 ¹ (<i>Intro Physics I</i>) 5 hr ___ Math 1151 (<i>Calculus I</i>) 5 hr ___ Engineering 1811 (<i>Intro Engineering I</i>) 2 hr ___ Engineering 1100 (<i>Engineering Survey</i>) 1 hr ___ Writing & Info Literacy GE 3 hr	___ Physics 1271 ¹ (<i>Intro Physics II</i>) 5 hr ___ Math 1172 (<i>Eng Mathematics A</i>) 5 hr ___ Engineering 1182 (<i>Intro Engineering II</i>) 2 hr ___ CSE 1222 ² (<i>C++ Programming</i>) 3 hr ___ GenEd 1201 ³ 1 hr
2	___ Physics 2300 (<i>Mechanics I</i>) 4 hr ___ Physics 2095 (<i>Physics Seminar</i>) 1 hr ___ Math 2173 (<i>Eng Mathematics B</i>) 3 hr ___ Physics 3700 (<i>Data Analysis Lab</i>) 3 hr ___ Engineering Elective 3 hr ___ Literary, Visual and Performing Arts GE 3 hr	___ Physics 2301 (<i>Mechanics II</i>) 4 hr ___ Math 2174 ⁴ (<i>Differential Eq./Linear Algebra</i>) 3 hr ___ Engineering Elective 3 hr ___ Social and Behavioral Sciences GE 3 hr ___ Historical and Cultural Studies GE 3 hr
3	___ Physics 5500 (<i>Quantum Mechanics</i>) 4 hr ___ Engineering Elective 3 hr ___ Engineering Elective 3 hr ___ Engineering Elective 3 hr ___ Thematic Pathways #1 3 hr	___ Physics 5400 (<i>Electromagnetism</i>) 4 hr ___ Physics 4700 (<i>Electronics Lab</i>) 3 hr ___ Engineering Elective 3 hr ___ Targeted Elective 3 hr ___ Race, Ethnicity, Gender Diversity GE 3 hr
4	___ Physics 5800 (<i>Eng Phy Capstone I</i>) 3 hr ___ Engineering Elective 3 hr ___ Engineering Elective 3 hr ___ Targeted Elective 3 hr ___ Thematic Pathways #2 3 hr ___ Thematic Pathways #3 3 hr	___ Physics 5801 (<i>Eng Phy Capstone II</i>) 3 hr ___ Engineering Elective 3 hr ___ Targeted Elective 3 hr ___ Physics Elective 4 hr ___ Thematic Pathways #4 3 hr ___ GenEd 4001 1 hr

Total Hours to complete the degree program = 132

¹ Students can take Physics 1250-1251, 1250H-1251H, 1260-1261, or 1270-1271

² Students can take CSE 1222, CSE 1223, CSE 1224, Engr 1221, Astronomy 1221, or Engr 1281H as their programming course

³ GenEd 1201 must be taken within the first three semesters

⁴ Or (Math 2415 and 2568) or (Math 2255 and 2568) or (Math 5520H) can be completed in place of Math 2174. Those pursuing the ECE concentration should take Math 2415 and 2568.

Courses printed in **bold** are taught only during the term shown.

Program Options

Engineering Physics students are required to take at least 27 hours from one of the following areas of engineering.

Aerospace Engineering
Chemical & Biomolecular Engineering
Computer Science & Engineering
Electrical Engineering
Industrial & Systems Engineering
Materials Science & Engineering
Mechanical Engineering
Nuclear Engineering

Requirements for each concentration can be found at <https://physics.osu.edu/engineering-physics-program/concentration-requirements>

Acceptance Criteria

Acceptance into this program is based on a holistic review of the student's record including an essay. Admission to major is considered only after a student has taken at least 12 credit hours of letter grade in their undergraduate career at OSU and have completed the following courses: MATH 1151, 1172; ENGR 1181, 1182; PHYSICS 1250, 1251 (or their equivalents).

Applications are accepted Autumn and Spring semesters as well as Summer Term. Students must complete the online Engineering Physics Major Application the semester in which they are completing their pre-major requirements (i.e. the semester before the students wants to enter the major). For more information please visit our website (<https://physics.osu.edu/engineering-physics-program>)

Technical and Other electives

The Targeted Electives can be any additional math, physics, or engineering course that is 2000 level or above and not already required by the program or counting toward any other elective. 9 credit hours are required in the category. Additional information a list of options is available at <https://physics.osu.edu/engineering-physics-targeted-electives>

Possible Physics Electives include Physics 3470, 5401H, 5501, 5501H, 5300, 5600, 5680, 5810, or any of the 68xx courses.

General Education Requirement

A list of approved general education courses can be found at advising.engineering.osu.edu/current-students/curriculum/general-education