

Sample schedule for Mechanical Engineering / Physics Major

Freshman year:

Required: Physics 105/106, Two semesters of math at the level you have placed into

Recommended: CS 105/106 or Chem

Sophomore year:

Fall:

Physics 211 "Laboratory in Electronics and Wave Physics" Th 1:15-4:00

Physics 213 "Waves and Optics" MWF 9:30-10:30

Math 121 "Calculus III" MWF 10:30-11:30

Two other courses

Spring:

Physics 212 Th 1:15-4:00

Physics 214 MWF 11:30-12:30

Swat Engr 006 MWF 8:30-9:20, lab M 2:45-4:00

Astro 206 "Intro to Astrophysics II" TT 10:00-11:30

Math 215 "Linear Algebra" MWF 10:30-11:30 OR Humanities/Social Science

Junior year:

Fall:

Penn MEAM 321 "Vibrations of Mechanical Systems" MWF 2-3 pm, recitation Th 12-1 or F 1-2

Physics 303 "Statistical Physics" MWF 9:30-10:30 or Physics 308, "Mechanics of Discrete and Continuous Systems" TT 8:30-10:00

Math 215 "Linear Algebra" MWF 10:30-11:30 OR Humanities/Social Science

Optional (but opens up design courses later): Penn MEAM 101 "Introduction to Mechanical Design" Tu 1:30-3:00, plus lab either Th 12:00-1:30, 1:30-3:00, or 3:00-4:00

One other course

Spring:

Penn MEAM 354 "Mechanics of Solids" TT 12-1:30, recitation F 12-1 or 1-2

Physics 304 "Computational Physics" TT 2:30-4:00 (if available)

Physics 309 "Advanced E&M" MWF 9:30-10:30 or Advanced Quantum Mechanics TT 8:30-10:00

One other course

Senior year:

Fall:

Physics 308 "Mechanics of Discrete and Continuous Systems" TT 8:30-10:00 or Physics 303 "Statistical Physics" MWF 9:30-10:30

Physics 399 "Senior Seminar" (half credit) W 1:00-2:00

Senior research

Two grad courses at Penn (from the list of courses that count toward the Master's in Mechanical Engineering), for example:

Penn MEAM 510 "Design of Mechatronic Systems" MW 3:00-4:30

Complete list of grad courses that count is available here:

<http://www.me.upenn.edu/current-students/masters/pdf/mse-handbook.pdf>

Spring:

Penn MEAM 333 "Heat and Mass Transfer" TT 3-4:30, recitation W 11-12 or W 2-3

Physics 304 "Computational Physics" TT 2:30-4:00 (if available)

Physics 399 "Senior Seminar" (half credit) W 1:00-2:00

Senior research

One mechanical engineering grad course at Penn

One other course