

PURDUE UNIVERSITY  
 Department of Physics  
 B.S. with Physics Major (Honors) 76H  
 Typical Plan of Study

Semester	Physics	Math	General Ed Lab Sci	Foreign Language Electives	Credits
1	<b>Phys 172 (H) (4 cr.)**</b> <b>Mechanics</b> ®Phys 217 (1 cr.)	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	(* Foreign Language 3 cr)	15 -16
2	<b>Phys 272 (H) (4 cr.)***</b> <b>E&amp;M</b>	Ma 166 (4 cr.) Calculus II	Chm 116 (4 cr.)	(* Foreign Language 3 cr.) *Engl 106 or 108 ( 3-4 cr.)	18 - 19
3	<b>#Phys 290G (3 cr.)</b> <b>Special/Gen Relativity</b> <b>#Phys 290F (3 cr.)</b> <b>(Mathematical Physics)</b>	Ma 261 (4 cr.) Calculus III	Lab Sci (3 - 4 cr.)	(* Foreign Language 3 cr.)	13 - 17
4	<b>Phys 344 (4 cr.)</b> <b>Modern Physics</b> <b>Phys 422 Optics (3 cr.)</b> ®Phys 290A (1 cr.)	Ma 266/366 Diff. Eq. (3 - 4 cr.)	Lab Sci (3 - 4 cr.)	(* Foreign Language 3 cr.)	16-19
5	<b>Phys 430 E&amp;M I (3 cr.)</b> <b>Phys 410 Mech. I (3 cr.)</b> <b>Phys 450 Optics Lab (2 cr.)</b>	Math Elective (3 cr.)	Adv. Engl Comp. (3 cr.)	Gen Ed (3 cr.)	17
6	<b>Phys 460 QM I (3 cr.)</b> <b>Phys 411 Mech II (2 cr.)</b> <b>Phys 431 E &amp; M II (2 cr.)</b>	Math Elective (3 cr.)		Gen Ed (3 cr.) Gen Ed (3 cr.)	16
7	<b>Phys 461 QM II (3 cr.)</b> <b>Phys 416 Stat. Mech. (4 cr.)</b> <b>Phys 342L Modern Physics Lab</b> <b>(1 cr.)</b> <b>Phys 593 Adv Lab ( 3 cr.)</b>			Gen Ed (3 cr.)	14
8	<b>Phys 536 (4 cr.)</b> <b>Phys 593 Adv Lab ( 3 cr.)</b> ®Phys 450 Optics Lab (2 cr.)		Gen Ed (3 cr.)	Gen Ed (3 cr.) Elective (PHYSICS or other) (3 cr.)	16-18

<sup>®</sup>(If Optics Lab was not taken in Sem 5)

\* Foreign Language and English Composition are interchangeable in terms of when they are taken.

\*\*Phys 152 or Phys (162, 163) are acceptable substitutes

\*\*\*Phys 241, 261, with Phys (252 +290d) or Phys 271 with 271L are acceptable substitutes

# Phys 290G or Phys 290F (3 cr.) (Introduction to Mathematical Methods in Physics) may be taken.