

PURDUE UNIVERSITY  
 Department of Physics  
 B.S. Physics Major with Specialization in Teaching (7PT)  
 (effective Fall 2008 )  
 Typical Plan of Study

Sem	Physics Department Requirements		College of Science Req	College of Education Req.	Credits
1	<b>Phys 172(H) (4 cr.)**</b> Mechanics	Ma 165 (4 cr.) Calculus I <sup>®</sup> Phys 217(H)(1cr.)	CS 177/159/180 (3-4 cr.) € Sci 130 (1 cr.) <b>Chm 115 (4 cr.)</b>		15-18
2	<b>Phys 272(H) (4 cr.)***</b> E&M	Ma 166 (4 cr.) Calculus II	<sup>β</sup> Engl 106/108 (4 or 3 cr.) <b>Chm 116 (4 cr.)</b>	<b>EDCI 270</b> <b>Ed tech (2 cr.)</b>	15 - 18
3	<sup>∞</sup> <b>Phys 312 (3 cr.)</b> (Mathematical Physics I ) <b>Phys 344 (4 cr.)</b> (Modern Physics) <sup>∞</sup> <b>Phys 340 (1 cr.)</b> (Modern Physics Lab)	Ma 261 (4 cr.) Calculus III		<b>Block I (6 cr.)</b> <b>EDCI 205</b> <sup>£</sup> <b>EDCI 285</b>  (Culture/diversity Requirement)	18
4	<b>Phys 313 (3 cr.)</b> (Mathematical Physics II ) <b>Phys 422 (3 cr.)</b> (Optics)	<sup>®</sup> Phys235 (1cr)	<sup>β</sup> Foreign Language (3 cr)	<b>Block II (6 cr.)</b> <sup>µ</sup> <b>EDPS 235</b> (Gen Ed) <b>EDPS 265</b>	18 - 20
5	<b>Phys 310 (4 cr.)</b> Inter Mech <b>Phys 330 (3cr.)</b> Inter E&M <b>Phys 450 (2 cr.)</b> Optics Lab		Foreign Language (3 cr) Writing & Presentation (3 cr)	<b>Hist &amp; Phil of Education (3 cr.)</b> <b>EDST 200</b>	18
6	<b>Phys 360 (3 cr.)</b> <b>Quantum Physics</b> <b>Phys 536 (4 cr.)</b> <b>Advanced Lab</b>	Sci Elective (3 - 4 cr.)	Writing & Presentation (3 cr.)	<b>Methods (3 cr.)</b> <sup>*</sup> <b>EDCI 424</b> (Multidisciplinary Requirement )	15 -17
7	<b>Physics/Astro Elective (3 cr.)</b> ( ≥ 300 level )	Sci Elective (3 - 4 cr.)	Statistics (3 cr.) Gen Ed II (3 cr.) Gen Ed III (3 cr.)		15 - 16
				<b>EDCI 428 Methods (2 cr.)</b> <sup>™</sup> <b>EDCI 498W (10 cr.)</b> Student Teaching	12

<sup>∞</sup>Phys 312 = Phys 290F; Phys 340= Phys 342L

<sup>β</sup> Foreign Language and English Composition are interchangeable in terms of when they are taken.

\*\*Phys ( 152 + 290D) or Phys (162, 163) are acceptable substitutes

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

€ MANDATORY. To be taken in Semester 1 or 2

<sup>®</sup> Optional but Strongly Recommended.

<sup>\*</sup>**EDCI 424** = Multidisciplinary Requirement; <sup>µ</sup>**EDPS 235** = Gen Ed I requirement; <sup>£</sup>**EDCI 285** = Culture/Diversity

<sup>™</sup>**EDCI 498W** = Team Building and Collaboration Requirement