PURDUE UNIVERSITY
Department of Physics
B.S. Applied Physics with Specialization in Computational Physics (7PO)
(Interim until New Physics Curricum)
(Effective Fall 2007)

Semester	Physics	Math	Sci Req.	Sci Req.	Sci Req.	Electives	Credits
1	Phys 172 (H) (4 cr.) Mechanics	Ma 165 (4 cr.) Calculus I	Chm 115 (4 cr.)	Language & Culture (3 cr.)	Teamwork (1 cr.)	®Phys 217 (1 cr.)	16 - 17
2	Phys 272 (H) (4 cr.) E&M	Ma 166 (4 cr.) Calculus II		Language & Culture (3 cr.)	Engl 106 (4 cr.)		15
3	#Phys 290G (3 cr.) (Gen.and Spl. Relativity) OR #Phys 290F (3 cr.) (Mathematical Physics)	Ma 261 (4 cr.) Calculus III	Chm 116 (4 cr.)	Language & Culture (3 cr.)	CS 158/159 (3 cr.) Programming		17 - 20
4	Phys 342 (3 cr.) (Modern Physics) ®Phys 235 (1 cr.)	Ma 262/266/366 Differential Eqns.(3-4 cr)	Statistics (3 cr.)			CS 314 (3 cr.) Numerical Methods *Applied Elect (3 - 4 cr.)	15 - 18
5	Phys 310 (4 cr.) Mechanics Phys 322-450 (5 cr.) (Optics and Lab)		Great Issues (3 cr.)			C S 478 (3 cr.) Intro to Bioinformatics Applied Elect (3 - 4 cr.)	18-19
6	Phys 330 (3 cr.) (Electromagnetism)	Math Elective (3 cr.)	Gen Ed (3 cr.)	Multidisciplinary (3 cr.)		Applied Elect (3 - 4 cr.) Applied Elect (3 - 4 cr.)	18 - 20
7	Phys 515 (3 cr.) (Therm & Stat. Mech) Phys 342L (1 cr.) (Modern Lab)	Math Elective (3 cr.)	Gen Ed (3 cr.)			CS 501 (3 cr.) Intro To Cmptationl Sci Phys 580 (3 cr.) Computational Physics	16
8	Phys 360 (3 cr.) (Quantum)		Gen Ed (3 cr.)	Writing/ Presentation (3 cr.)		Phys 570A (3 cr.) Computational Biomolecular Physics CS 590V (3 cr.) Bimolecular Simulation	15

 # Only one of these is Required.

® Strongly Recommended but not Required.

1.The Applied Physics Program differs from the regular program in that slightly fewer physics credits are required; at least 30 hours of APPLIED electives are selected rather than free electives.

2. *Applied Elective = 1 - 5 credit hours of a Science, Technology or Engineering Class, including upper level physics courses.

3. For a partial list of applied electives follow the links on www.physics.purdue.edu.

4. A grade point average of 2.0 in all physics and Applied Electives is required.

5. Minimum number of total credits required = 124 hours. At least 32 hrs. of 300 level or above coursework required.

PURDUE UNIVERSITY
Department of Physics
B.S. Applied Physics with Specialization in Computational Physics (7PO)
(Interim until New Physics Curricum)
(Effective Fall 2007)