B.S. Applied Physics

**Suggested semester:**

**Freshman**
- 1st term:
  - MATH 113 Calculus II (4.0 hr)  
  - FWSpSu
- 2nd term:
  - MATH 302 Math for Eng. 1 (4.0 hr)  
  - FWSpSu

**Sophomore**
- 1st term:
  - MATH 303 Math for Eng. 2 (4.0 hr)  
  - FWSpSu
- 2nd term:
  - MATH 314 Calculus many variables (3.0 hr)  
  - FWSpSu

**Junior**
- 1st term:
  - PHYS 222 Modern Phys  
  - FSp
- 2nd term:
  - PHYS 321 Mechanics  
  - FSp

**Senior**
- 1st term:
  - PHYS 330 Computational Physics 2 (1.0 hr)  
  - FSp
- 2nd term:
  - PHYS 360 Statistical/Thermal  
  - Addl Prereq: Math 302 or 314
- 3rd term:
  - PHYS 441 Elec & Mag 1  
  - FSp or W
- 4th term:
  - PHYS 442 Elec & Mag 2  
  - FSp

Notes:
1. Math 112 (Calculus I) preparation is assumed in high school. If you studied differentiation and integration in high school, move on to Math 113.
2. If you want a more formal versus applied math preparation, and perhaps a math minor, take the math sequence on the right. It requires 1-2 more hours than the left track. Both tracks are good.
3. Senior Thesis is required; join research group as early as possible. Credit in Sr. year in 498R.
4. PHYS 416, Writing in Physics, can replace Engl 316, and can help you write your thesis. Take it when your research is essentially complete.
5. Color code: blue = math & CS, orange = introductory sequence, purple = lab, yellow = careers, green = computational, red = upper level.