Notes:
1. Please visit the teaching majors advisor early to ask questions.
2. Some teaching students prefer to put in more effort and get the B.S. in Physics while completing the teaching courses needed to certify. Another option is to get the B.S. in Applied Physics, and select education classes as your emphasis. These options give them the option to teach, continue to graduate school or work in industry. It is not necessary to get a teaching degree to certify to teach.
3. Color code: blue = math, orange = lower level lecture, purple = lab, yellow = careers, green = education, red = other physics classes

### B.S. Physics Education

#### Suggested semester:

**Freshman**
- 1
  - MATH 112 (or AP) Calculus I
  - MATH 113 Calculus II (4.0hr)
  - PHYS 121 Mechanics
  - PHYS 123 Waves, optics, thermo
  - PHYS 127 Desc. Astronomy
  - MATH 112 (or AP) Calculus I

**Sophomore**
- 2
  - MATH 302 Math for Eng. 1 (4.0hr)
  - MATH 213+215 Linear Alg (2+1 hr)
  - PHYS 220 Elec & Mag
  - PHYS 225 Intro to Expt. Phys (2.0 hr)
  - PHYS 240 Sci Apparatus Design, Fab (2.0 hr)
  - MATH 302 Math for Eng. 2 (4.0hr)

**Junior**
- 3
  - MATH 314 Calculus manyvars (3.0hr)
  - PHYS 222 Modern Phys
  - PHYS 310 Inquiry: Electricity (3.0hr)
  - PHYS 311 Inquiry: Mechanics (3.0hr)
  - PHYS 310 Inquiry: Electricity (3.0hr)
  - PHYS 311 Inquiry: Mechanics (3.0hr)

**Senior**
- 4
  - MATH 334 Diff. Equations (3.0hr)
  - PHYS 320 Inquiry: Electricity (3.0hr)
  - PHYS 320 Inquiry: Electricity (3.0hr)
  - PHYS 320 Inquiry: Electricity (3.0hr)

**Overview of Electives**
- Complete 9 hours of electives from the following groups (see B.S. Physics flowchart for prereq information):
  - Elective Group A: Complete up to 3 hrs from the following: Phscs 137, 167, 310, 311, 313R, Phl 423R.
  - Elective Group B: Complete at least 6 hrs from any 300+ physics courses, not including 310, 311, 399R.
  - Phys 321, 461, and 471 are highly recommended.

**Other highly recommended courses**
- Phys 230 (Computational Physics 1)
- Chem 105 (General Chem 1)
- Chem 106 (General Chem 2)
- MATH 303 Math for Eng. 1 (4.0hr)
- MATH 213+215 Linear Alg (2+1 hr)
- MATH 314 Calculus many vars (3.0hr)
- PHYS 220 Elec & Mag
- PHYS 225 Intro to Expt. Phys (2.0 hr)
- PHYS 240 Sci Apparatus Design, Fab (2.0 hr)}