### B.S. Physics Education

#### 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, purple = lab, yellow = careers, green = education, red = physics electives

#### Required Prerequisite Concurrent

#### Suggested semester:

**Freshman**

1. MATH 112 (or AP) Calculus I
2. MATH 113 Calculus II (4.0hr)
3. PHYS 121 Mechanics
4. PHYS 191 Phys Careers & Research (0.5 hr)
5. PHYS 122 Modern Phys
6. PHYS 225 Intro to Expt. Phys (2.0 hr) Take with 220 if possible. Rec: CS 142 or programming experience
7. PHYS Elective

**Sophomore**

1. MATH 213+215 Linear Alg (2+1 hr)
2. MATH 314 Calculus many vars (3.0hr)
3. PHYS Elective See note to the right
4. PHYS 127 Desc. Astronomy

**Junior**

1. MATH 302 Math for Eng. 1 (4.0hr)
2. MATH 303 Math for Eng. 2 (4.0hr)
3. MATH 334 Diff. Equations (3.0hr)
4. PHYS 240 Sci Apparatus Design, Fab (2.0 hr)

**Senior**

1. PHYS 220 Elect & Mag
2. PHYS 222 Modern Phys
3. PHYS 225 Intro to Expt. Phys (2.0 hr) Take with 220 if possible. Rec: CS 142 or programming experience
4. PHYS Elective See note to the right
5. PHYS Elective See note to the right
6. PHYS Elective See note to the right

#### Physics Teaching elective courses
Complete 12 hours of electives from the following groups (see B.S. Physics flowchart for prerequisite information):
- Elective Group A: Complete up to 3 hrs from the following: Phscs 137, 167, 310, 311, 313R, Phil 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)

#### Required Prerequisite Concurrent