

## College of Letters and Sciences B.S. Degree Requirements For Secondary Education Licensure in Physics

- 1) Communications & Calculations Skills (12 units or waivers)
- \_\_\_ ENGLISH 101
  - \_\_\_ ENGLISH 102  
or \_\_\_ ENGLISH 105 Freshmen Honors  
(replaces both 101 and 102)
  - \_\_\_ SPEECH 110
  - \_\_\_ MATH 140 or 141
- 2) B.S. Degree Requirements (32 units)
- Quantitative and Technical Reasoning (7-11 units)
    - \_\_\_ A 4-5 unit laboratory science designated *GL*
    - \_\_\_ 3 – 6 units of science, math or computer science courses designated *GL* or *GM* from at least 1 subject area other than the laboratory science course used in Area 2.a.1 (Astronomy, Biology, Chemistry, Geology, Computer Science, Physical Geography, Math Physics)
  - Cultural Heritage (6 units)
    - \_\_\_ GENED 110
    - \_\_\_ GENED 390
  - Communities (6 units)
    - \_\_\_ GENED 130
    - \_\_\_ GENED 120 or 140
  - Personal Health and Well-being (1-2 units)
    - \_\_\_ PEGNRL 192
    - \_\_\_ 0-1 unit in HPRC courses designated *GP*
  - \_\_\_ Electives (7-12 units)
    - \_\_\_ Additional electives designated *GA, GE, GH, GI, or GS*; no more than 1 course from any one discipline may be counted in electives
- 3) Diversity (3 units)
- \_\_\_ Any diversity course listed in 2008-10 Catalog pg 19.
- 1) Physics Major (34 units)
- Select 1 group
 

___ PHYSCS 180	or	___ PHYSCS 140
___ PHYSCS 181		___ PHYSCS 141
  - Select 2 units of \_\_\_ Physics 190
  - Required physics courses
    - \_\_\_ PHYSCS 221
    - \_\_\_ PHYSCS 305
    - \_\_\_ PHYSCS 310
    - \_\_\_ PHYSCS 324
    - \_\_\_ PHYSCS 344
    - \_\_\_ PHYSCS 489
  - Select remaining 5 units from ASTRONMY 112 and courses numbered 300 or 400 with no more than 3 units from 490-499
    - \_\_\_
    - \_\_\_
  - Writing (3 units)
    - \_\_\_ ENGLISH 370 or \_\_\_ ENGLISH 372 RLS
  - \_\_\_ Departmental Exit Interview
- 2) Licensure (40 units)
- Educational Foundations
    - \_\_\_ EDFOUND 212
    - \_\_\_ EDFOUND 243 or \_\_\_ EDFOUND 445
    - \_\_\_ EDFOUND 425
    - \_\_\_ EDFNDPRC 210
  - Curriculum and Instruction
    - \_\_\_ SECNDED 429
    - \_\_\_ SECNDED 466
    - \_\_\_ CIFLD 492 (select 3 units)
  - Student Teaching
    - \_\_\_ CIFLD 402 (2 units) & CIFLD 414 (12 units)  
*or select*
    - \_\_\_ CIFLD 404 (2 units) & CIFLD 412 (12 units)
  - Interdepartmental
    - \_\_\_ SPECED 205 (select 3 units)
  - Select one of the following (3 units)
    - \_\_\_ GEOGRPHY 252 or \_\_\_ BIOLOGY 214
- 3) Mathematics Secondary Ed Emphasis Minor (24 units)
- \_\_\_ MATH 253
  - \_\_\_ MATH 254
  - \_\_\_ MATH 280
  - \_\_\_ MATH 342
  - \_\_\_ MATH 353
- Choose one:  
\_\_\_ MATH 355 or 452
- Recommended: \_\_\_ MATH 255  
\_\_\_ MATH 361