

College of Letters and Sciences B.S. Degree Requirements For Graduate School Emphasis in Physics With a Mathematics Minor

1. General Education Requirements

Communications & Calculations Skills (12 units or waivers)

- a) ___ENGLISH 101
- b) ___ENGLISH 102
or ___ENGLISH 105 Freshmen Honors
(replaces both 101 and 102)
- c) ___SPEECH 110
- d) ___MATH 140 or 141

2. University Requirements (32 units)

a) Quantitative and Technical Reasoning (7-11 units)

- 1) ___A 4-5 unit laboratory science designated GL
- 2) ___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)

b) Cultural Heritage (6 units)

- 1) ___GENED 110
- 2) ___GENED 390

c) Communities (6 units)

- 1) ___GENED 130
- 2) ___GENED 120 or 140

d) Personal Health and Well-being (1-2 units)

- 1) ___PEGNRL 192
- 2) ___0-1 unit in HPRC courses designated *GP*

e) ___Electives (8-12 units)

- 1) ___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)

- a) ___Any diversity course listed in 2010-12 Catalog pg 38.

4) L&S BS degree requirements

- a) ___Two 4-5 unit laboratory science courses designated GL from 2 different disciplines, one of which may count in University requirements.
- b) ___5 units in math beyond 141 or 3 units math beyond 141 and 3 units in computer science courses (not limited to GM courses, but may count in University Requirements if they are GM).

1) Physics (38 units)

a) Select 1 group

- ___PHYSICS 180 or ___PHYSICS 140
- ___PHYSICS 181 or ___PHYSICS 141

b)

- ___PHYSICS 221
- ___PHYSICS 305
- ___PHYSICS 310
- ___PHYSICS 324
- ___PHYSICS 325
- ___PHYSICS 344
- ___PHYSICS 364
- ___PHYSICS 489

c) Select 2 units of ___PHYSICS 190

d) Select remaining units from Physics courses numbered 300 or 400 with no more than 3 units from 490-499 courses.

e) ___ Departmental Exit Interview

2) Major – Unique Requirement (12 units)

- a) ___MATH 255
- ___MATH 355
- ___MATH 361

b) Choose one

- ___COMPSCI 347, COMPSCI 172 or
- COMPSCI 174

3) Writing – 3 units

- ___ENGLISH 370 or ENGLISH 372 RLS

4) Mathematics Minor (22 units)

- ___MATH 253
- ___MATH 254
- ___MATH 255*
- ___MATH 361 or MATH 280
- ___Select remaining units from Math courses numbered 300 or higher except MATH 375.

*These courses are also listed under the physics major requirements