## Physics (EPS Concentration Solid Earth Focus), BS
College of Arts & Sciences: Department of Physics & Astronomy (4 Year Plan)

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**Term Hours:** 12

**Crucial course:** (A crucial course is a predictor for success in obtaining this degree. It should be taken in the term indicated in order to ensure timely progress to graduation.)

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### Degree Plan Notes

- Minimum graduation GPA = 2.00. Keep in mind that minimum grades on road map are for individual coursework only. Students must maintain a minimum of a 2.0 cumulative GPA for admission and graduation from the College of Arts and Sciences.
- A Math Minor is automatically earned.
- "Physics 167, 168, and 267 are 1-credit hour Recitation Sections associated with Physics 160, 161 and 262, respectively. These recitation sessions are practice in solving problems from the associated lecture courses. They are optional, but very **EPS 101 and 105L are recommended, but a motivated student could opt to gain this background on their own by reading. This should be determined in advising. Such a student may add another EPS elective instead in an appropriate semester.
- The Departmental Honors Program requires 2 semesters of an Honors Section of Physics 456. The student and faculty mentor present a mutually agreeable topic to the department for approval. Also, the University requires a GPA of at least 2.0 cumulative GPA for admission and graduation from the College of Arts and Sciences.
- **EPS Electives:** This concentration requires a minimum of 6 electives, including EPS 101 and PHYC 327 as gateway classes. Four additional electives may be chosen from the following list (a student can mix classes across these subject areas, depending on interest, but should work closely with their advisor to determine the best set of classes). These electives are generally chosen because they require the PHYS 160 series as prerequisites, but students are encouraged to contact the instructors of the classes to identify themselves as Physics majors with an EPS concentration.
- **Climate/Atmosphere:** EPS 436 Climate Dynamics (3), EPS 437 Applied Meteorology (3), EPS 439 Paleoclimatology (3) Solid Earth Geophysics: PHYC 327 Introduction to Solid Earth Geophysics (3); EPS 488 Scanning Electron Microscopy (3); PHYC 4XX/EPS 564? â€” Geodynamics or geological fluid mechanics (Roy â€” course number TBD); EPS 457L Mathematical Modeling in the Geosciences (3); Introduction to Seismology, Applied Seismology, Signal Processing, Inverse Theory â€” these course numbers TBD by newly hired geophysics faculty; EPS 450 Volcanology (with permission of instructor) (3) Hydrology: EPS 476 Physical Hydrology (3), EPS 462 Hydrogeology (3), or with permission of instructor, EPS 443 Aquifers and Reservoirs (3).