To be adopted: Proposed changes to Geophysics major

Geophysics Major

The following are major requirements for the B.S. in Geophysics. All students majoring in Geophysics are normally required to take this core curriculum.

1. Lower-division requirements (52-66 units)
   a) GEO 001 and one of GEO 004 or GEO 008
   b) MATH 007A or MATH 009A or MATH 009HA, MATH 007B or MATH 009B or MATH 009HB, MATH 009C, MATH 010A, MATH 031, MATH 046
   c) PHYS 040A, PHYS 040B, PHYS 040C (strongly recommended), or PHYS 002A, PHYS 02LA, PHYS 002B, PHYS 02LB, PHYS 002C, PHYS 02LC
   d) CS 009M or CS 009P or CS 010A

CHEM 001A, CHEM 001LA, CHEM 001B, CHEM 001LB, MATH 010B are recommended as prerequisites for upper division electives in geology and geophysics, and for students looking to earn a teaching credential for high school science.

2. Upper-division requirements (46-52 units)
   a) GEO 111, GEO 115, GEO 116, GEO 140, GEO 145
   b) One of GEO 144 or GEO 147
   c) Five of GEO 100, GEO 101A, GEO 101B, GEO 118, GEO 122, GEO 132, GEO 144 or GEO 147, GEO 157, PHYS
130A, PHYS 130B, PHYS 132 or PHYS 134, PHYS 135A, PHYS 135B, PHYS 136, PHYS 139L, PHYS 177, MATH 120, MATH 131, MATH 132, MATH 135A, MATH 135B, MATH 146A, MATH 146B, MATH 146C, MATH 147, MATH 149A or STAT 160A, MATH 149B or STAT 160B, STAT 160C, MATH 168, GEO 180, GEO 181, STAT 100A or STAT 155, STAT 160B

Students wishing to continue on to graduate school may wish to earn a Minor in Mathematics, Physics, Statistics, or Computer Science, requiring an additional 24 upper division units of study, and/or completion of a Senior Thesis, which includes up to 9 units of independent research.

**Justification:**

The Statistics Department has decided to renumber the following courses to lower division: STAT 100A to STAT 010 and STAT 100B to STAT 011. We therefore retain STAT 155 as the only optional upper division course in our requirements. We also correct one typo.

**Approvals:**

Approved by the faculty of the Department of Earth and Planetary Sciences: October 21, 2020
Approved by the Executive Committee of the College of Natural and Agricultural Sciences: December 8, 2020
Approved by the Committee on Educational Policy: April 23, 2021