

# Department of Earth Sciences Courses List(2021 Fall) – Undergraduate Program

Note :

1. The number with the break ( ) indicates the credits.
2. Color Code: **Eligible Course**, **Astronomy**, **Atmospheric Science**, **Geology**, **Geophysics**, **Ocean**, **Sci. Edu./Edu. Program** , **Integrated Course**.
3. Course with “\*” are Master Joint Courses; courses in bold and italic are taught in English in the corresponding semester.

110-1 (2021 Fall)	Required	Selected
<b>Freshman (Year 1)</b>	Introduction to Geophysics (including Lab.)B(3) Physical Geology (including Lab.)(3)	Introduction to Earth Science(2)
<b>Sophomore (Year 2)</b>	Introduction to Geophysics (including Lab.)A(3)	Astronomical Observations (Including Lab)(3) Atmospheric Observations (including Lab.)(3) Fluid Climatology(3)* Dynamics (3) Introduction to Astroinformatics(3) Introductory Marine Biology(2) Introduction to Planetary Science(3) Mineralogy (including Lab.)(3)* The Development of Cosmology(3)
<b>Junior (Year 3)</b>		Atmospheric Dynamics (I)(3) Atmospheric Physics(3) Earthquakes of the Week(3)* Earth Science Data Processing(3)* Earth Science Practicum (I)(3) Earth Science Practicum (II)(3) <b>Geochemistry(3)*</b> Introduction to Petroleum Geology(3)* Introduction to Marine Physics(3)* Innovation Trends in Oceanography(3)* Marine Resources and Sustainable Development(3)* Ocean Circulation(3)* Planet and Earth Systems Scientific Research Writing Program (I)(3) Structural Geology (including Lab.)(3)* Teaching Materials and Methods: Earth (2) Time Series Analysis(3)*
<b>Senior (Year 4)</b>		Radio Astronomy(3)* SciencesTeaching Practicum: Earth Sciences(I)(2)