

Department of Earth Sciences Courses List (2023 Spring) – Master Program

Note :

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

111-2 (2023 Spring)	Required	Selected
ASTRONOMY	<i>Seminar(II)(1)</i>	<i>Active Galaxies(3)*</i>
ATMOSPHERIC SCIENCES	<i>Seminar(IV)(1)</i>	<i>Advanced Synoptic Meteorology(3)#</i> Boundary Layer Meteorology(3) Atmospheric Dynamics (II)(3)* Climate Change Science and Practical Data Analysis (3)*
GEOLOGY		<i>Stress Regimes in Lithosphere(3)#</i> Petrology (including Lab.)(3)* Field Geology (including Lab.)(3)* Advanced Field Geological Techniques(3)* Sedimentology and Stratigraphy(3)* <i>Continent and Supercontinent Evolution(3)*</i> Geology of Taiwan(3)* Volcanology and Volcanic Hazards (Including Lab.) (3)* Principle of Geotechnical Engineering(3)* Petroleum Geochemistry(3)* Earth Science Aspects of Renewable Energy(2)*
GEOPHYSICS		<i>Theoretical Geophysics(3)#</i> <i>Physics and Chemistry of the Earth`s Interior(3)*</i>
OCEANOGRAPHY		<i>Introductory Marine Biology(3)*</i>
INTEGRATED COURSE		Earth System and Comparative Planetology(3)* Scientific Field Expeditions of Earth Systems(3)* Inquiry and Practical Work in Science(2)*