

Course Structure for Ph. D Program
GPE, Department of Earth Sciences
National Taiwan Normal University

Adaptive to Class of	Required Credit(s)	Elective Credit(s)	Free Elective Credit(s)	Minimum Total Credits for Graduation
110	4.0	18.0	0.0	22.0

Note: The first alphabet "E" on the course name refers to the course in English as a medium of instruction

I. Required Courses: 4.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
ESD0006	1 E Seminar (I)	1.0	2.0	0.0	
ESD0007	2 E Seminar (II)	1.0	0.0	2.0	
ESD0053	3 E Seminar (III)	1.0	2.0	0.0	
ESD0054	4 E Seminar (IV)	1.0	0.0	2.0	

II. Elective Courses: 0.0 credit is required

III. Courses Offered to Students in Different Divisions

Required Course, 0.0 credit is required

Elective Course: 18.0 credits are required

Course Code	Course Name	Credit(s)	Credit Unit		Note
			Lecture Hour	Lab/Practice Hour	
ESC8047	1 E Theoretical Geophysics	3.0	3.0	0.0	
ESC0133	2 E Sequence Stratigraphy	3.0	3.0	0.0	
ESC0257	3 E Climate Change	3.0	3.0	0.0	
ESC0268	4 E Strain Analysis	3.0	3.0	0.0	
ESC0271	5 E Advanced Structural Geology	3.0	3.0	0.0	
ESC8014	6 E Topics on Seismology	3.0	3.0	0.0	
ESC8036	7 E Core-Log Integration	3.0	3.0	0.0	
ESC8045	8 E Stress Regimes in Lithosphere	3.0	3.0	0.0	
ESC0242	9 E Advanced Synoptic Meteorology	3.0	3.0	0.0	

IV. Free Elective Credits: 0.0 credit is required