

Course Structure for Undergraduate Program
Department of Geography
National Taiwan Normal University

Adaptive to Class of	Common Courses Credit(s)	Required Credit(s)	Elective Credit(s)	Free Elective Credit(s)	Minimum Total Credits for Graduation
107	28.0	34.0	41.0	25.0	128.0

I. General Course: 28.0 credits are required

Course Category Code	Course Name	Credit(s)
	1 Chinese 4.0 credits are required	
001	1-1 Chinese(I)	2.0
001	1-2 Chinese(II)	2.0
	2 English 6.0 credits are required, Students who major in Department of English must take the course which course code are ENU0168 and ENU0169 with a passing score for instead	
002	2-1 English(I)	2.0
002	2-2 English(II)	2.0
002	2-3 English(III)	2.0
	3 General Education Courses 18.0 credits are required	
004	3-1 Language and Literature 2.0 credits are required	
004	3-2 Art and Aesthetics 2.0 credits are required	
004	3-3 Philosophical Thinking and Moral Reasoning 2.0 credits are required	
004	3-4 Citizenship and Social Inquiry 2.0 credits are required	
004	3-5 History and Culture 2.0 credits are required	
004	3-6 Mathematical and Logical Thinking 2.0 credits are required	
004	3-7 Science and Life 2.0 credits are required	
004	3-8 Second Foreign Language	
004	3-9 Life Skills	
004	3-10 Self-Directed Learning	
005	4 Physical Education (1.The credits will not be counted in for graduation. 2.Students who major in Department of Physical Education or Athletic Performance are exempted from the courses.) 6 courses are least required	
008	5 Service-Learning(I)	0.0
008	6 Service-Learning(II)	0.0

II. Required Courses: 34.0 credits are required

Course Category Code	Course Code	Course Name	Credit(s)	Credit Unit		Note
				Lecture Hour	Lab/Practice Hour	
	GEU0011	1 Geography of Taiwan	3.0	3.0	0.0	
	GEU0167	2 Quantitative Geography	3.0	3.0	0.0	
110	GEU0233	3 Introduction to Geography (I)	2.0	2.0	0.0	
110	GEU0234	4 Introduction to Geography (II)	2.0	2.0	0.0	
	GEU0001	5 Geomorphology	3.0	3.0	0.0	
	GEU0014	6 Geography of the World	3.0	3.0	0.0	
	GEU0136	7 Climatology	3.0	3.0	0.0	
	GEU0017	8 Cartography	3.0	3.0	0.0	
	GEU0166	9 Geographic Information System	3.0	3.0	0.0	
	GEU0006	10 Economic Geography	3.0	3.0	0.0	
	GEU0057	11 Urban Geography	3.0	3.0	0.0	
	GEU0118	12 Geographic Thoughts	3.0	3.0	0.0	

III. Elective Courses: 41.0 credits are required

Course Category Code	Course Code	Course Name	Credit(s)	Credit Unit		Note
				Lecture Hour	Lab/Practice Hour	
	GEU0003	1 Hydrology	3.0	3.0	0.0	
	GEU0004	2 Soil Geography	2.0	2.0	0.0	
	GEU0005	3 Biogeography	3.0	3.0	0.0	
	GEU0007	4 Settlement Geography	2.0	2.0	0.0	
	GEU0008	5 Social Geography	3.0	3.0	0.0	
	GEU0010	6 Cultural Geography	3.0	3.0	0.0	
	GEU0015	7 Regional Geography	3.0	3.0	0.0	
	GEU0016	8 Statistics for Geography	3.0	3.0	0.0	
	GEU0022	9 Fluvial and Coastal Geomorphology	3.0	3.0	0.0	
	GEU0024	10 Geomorphology of Taiwan	3.0	3.0	0.0	
	GEU0029	11 Climatology of World	3.0	3.0	0.0	
	GEU0033	12 Climatology of Taiwan	3.0	3.0	0.0	
	GEU0039	13 Climate Change	3.0	3.0	0.0	
	GEU0046	14 Geology	3.0	3.0	0.0	

	GEU0047	15 Meteorology	3.0	3.0	0.0
	GEU0050	16 Agricultural Geography	2.0	2.0	0.0
	GEU0051	17 Industrial Geography	3.0	3.0	0.0
	GEU0053	18 Marketing Geography	2.0	2.0	0.0
	GEU0059	19 Geography of Population	3.0	3.0	0.0
	GEU0060	20 Behavioural Geography	3.0	3.0	0.0
	GEU0061	21 Geography of Tourism	2.0	2.0	0.0
	GEU0067	22 Geography of Europe	3.0	3.0	0.0
	GEU0068	23 Geography of Americans	3.0	3.0	0.0
	GEU0069	24 Geography of Asia	3.0	3.0	0.0
	GEU0070	25 Geography of Africa	2.0	2.0	0.0
	GEU0073	26 Remote Sensing	3.0	3.0	0.0
220	GEU0074	27 Map Use and Analysis	3.0	3.0	0.0
230	GEU0239	28 Geovisualization	3.0	3.0	0.0
	GEU0079	29 Geographic Information System Application	3.0	3.0	0.0
	GEU0086	30 Geo-Ecology	3.0	3.0	0.0
	GEU0099	31 Applied Climatology	3.0	3.0	0.0
	GEU0101	32 Natural Disasters	3.0	3.0	0.0
	GEU0103	33 Environmental Geography	2.0	2.0	0.0
	GEU0104	34 Morphometry and Field Geomorphology	3.0	3.0	0.0
	GEU0108	35 Oceanography	3.0	3.0	0.0
224	GEU0120	36 Geography of China	2.0	2.0	0.0
	GEU0128	37 Application Computer Programming to Geography	3.0	3.0	0.0
	GEU0151	38 Soil and Water Conservation	3.0	3.0	0.0
	GEU0152	39 Digital Terrain Analysis	2.0	2.0	0.0
	GEU0154	40 Community Planning	3.0	3.0	0.0
	GEU0160	41 Political Economy of Space	3.0	3.0	0.0
	GEU0168	42 Introduction to Social Science Subject Area	2.0	2.0	0.0
	GEU0170	43 Natural Resource Conservation	3.0	3.0	0.0
	GEU0174	44 Engineering Geomorphology	3.0	3.0	0.0
	GEU0176	45 Satellite Image Analysis and Applications	3.0	3.0	0.0
	GEU0178	46 Watershed Management	3.0	3.0	0.0
	GEU0179	47 The Geography of Everyday Life	3.0	3.0	0.0
	GEU0183	48 Geography of Development	3.0	3.0	0.0
	GEU0184	49 Surveying	3.0	3.0	0.0
	GEU0185	50 Urban and Regional Planning	3.0	3.0	0.0
	GEU0186	51 Urban Design and Regeneration	3.0	3.0	0.0
	GEU0187	52 National Park and World Heritage	2.0	2.0	0.0
	GEU0188	53 Site Planning	3.0	3.0	0.0
	GEU0194	54 Ecotourism and Recreation	3.0	3.0	0.0
	GEU0199	55 Sustainable Tourism Management	3.0	3.0	0.0
	GEU0201	56 Reading the Classics in Human Geography	3.0	3.0	0.0
	GEU0202	57 Approach in Geography	3.0	3.0	0.0
	GEU0203	58 Spatial Decision Support System	2.0	2.0	0.0
	GEU0204	59 Urban Sociology	3.0	3.0	0.0
	GEU0205	60 Indigenou Geography	3.0	3.0	0.0
	GEU0209	61 Recreational Resource Management	2.0	2.0	0.0
130	GEU0213	62 Studies in Teaching of Introduction to Geography	2.0	2.0	0.0
130	GEU0214	63 Studies in Teaching of Regional Geography	2.0	2.0	0.0
120	GEU0215	64 Spatial Experience and Observation	2.0	2.0	0.0
120	GEU0216	65 Thinking Geographically in Film	3.0	3.0	0.0
120	GEU0217	66 Field Surveying Practice	2.0	0.0	4.0
110	GEU0218	67 The Global Positioning System	2.0	2.0	0.0
230	GEU0226	68 Environmental Sustainability	3.0	3.0	0.0
230	GEU0227	69 Land Laws and Regulations	3.0	3.0	0.0
230	GEU0228	70 Advanced Geographic Information Systems	3.0	3.0	0.0
250	GEU0229	71 Project-Based Learning in Geography	3.0	3.0	0.0
230	GEU0230	72 Environmental Protection Administration	2.0	2.0	0.0
230	GEU0231	73 Evaluation of Geography Education	2.0	2.0	0.0
240	GEU0232	74 Research in Methods and Material of Teaching Geography	2.0	2.0	0.0
230	GEU0235	75 Environmental Management and Regional Planning Practice	3.0	3.0	0.0
230	GEU0236	76 Water Resources Engineering and Planning	3.0	3.0	0.0
210	GEU0237	77 Landscape Graphic Drawing	3.0	3.0	0.0
220	GEU0238	78 Geography of Railways	2.0	2.0	0.0

IV. Free Elective Credits: 25.0 credits are required