

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 |
|----------------------|--------------------------|--------------------|--------------------|-------------------------|--------------------------------------|
| 112 | 32.0 | 34.0 | 41.0 | 21.0 | 128.0 |

I. General Course: 32.0 credits are required

| Course Name | Credit(s) |
|--|-----------|
| 1 Chinese 4.0 credits are required | |
| 1-1 Chinese Reading and Thinking | 2.0 |
| 1-2 Chinese Writing and Expression | 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 | |
| 2-1 English(I) | 2.0 |
| 2-2 English(II) | 2.0 |
| 2-3 English(III) | 2.0 |
| 3 General Education Courses 18.0 credits are required | |
| 3-1 Liberal Arts Course 8.0 credits are required | |
| 3-1-1 Humanities and Arts 2.0 credits are required | |
| 3-1-2 Social Sciences 2.0 credits are required | |
| 3-1-3 Natural Sciences 2.0 credits are required | |
| 3-1-4 Logic and Computing 2.0 credits are required | |
| 3-2 Cross-domain Exploration 4.0 credits are required | |
| 3-2-1 College Common Course | |
| 3-2-2 Cross-domain Professional Discovery Course | |
| 3-2-3 Introduction to University Studies | |
| 3-3 Self-Directed Learning maximum credits are 4.0 | |
| 3-3-1 Inquiry Study | |
| 3-3-2 MOOCs | |
| 4 Physical Education 4.0 credits are required, 4 courses are least required | |
| 5 Service-Learning 1 course is least required | |
| 5-1 Basic Service-Learning | 0.0 |

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

II. Required Courses: 34.0 credits are required

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|-------------|------------------------------------|-----------|--------------|-------------------|------|
| | | | Lecture Hour | Lab/Practice Hour | |
| GEU0233 | 1 E Introduction to Geography (I) | 2.0 | 2.0 | 0.0 | |
| GEU0234 | 2 E Introduction to Geography (II) | 2.0 | 2.0 | 0.0 | |
| GEU0011 | 3 Geography of Taiwan | 3.0 | 3.0 | 0.0 | |
| GEU0167 | 4 Quantitative Geography | 3.0 | 3.0 | 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 | |
| GEU0006 | 8 Economic Geography | 3.0 | 3.0 | 0.0 | |
| GEU0017 | 9 Cartography | 3.0 | 3.0 | 0.0 | |
| GEU0057 | 10 E Urban Geography | 3.0 | 3.0 | 0.0 | |
| GEU0166 | 11 E Geographic Information System | 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 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 E 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 | |

| Course Code | Course Name | Credit(s) | Credit Unit | | Note |
|-------------|---|-----------|--------------|-------------------|------|
| | | | Lecture Hour | Lab/Practice Hour | |
| 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 | |
| GEU0053 | 17 Marketing Geography | 2.0 | 2.0 | 0.0 | |
| GEU0059 | 18 Geography of Population | 3.0 | 3.0 | 0.0 | |
| GEU0060 | 19 Behavioural Geography | 3.0 | 3.0 | 0.0 | |
| GEU0061 | 20 Geography of Tourism | 2.0 | 2.0 | 0.0 | |
| GEU0067 | 21 Geography of Europe | 3.0 | 3.0 | 0.0 | |
| GEU0068 | 22 Geography of America | 3.0 | 3.0 | 0.0 | |
| GEU0069 | 23 Geography of Asia | 3.0 | 3.0 | 0.0 | |
| GEU0070 | 24 Geography of Africa | 2.0 | 2.0 | 0.0 | |
| GEU0073 | 25 Remote Sensing | 3.0 | 3.0 | 0.0 | |
| GEU0074 | 26 Map Use and Analysis | 3.0 | 3.0 | 0.0 | |
| GEU0079 | 27 Geographic Information System Application | 3.0 | 3.0 | 0.0 | |
| GEU0086 | 28 E Geo-Ecology | 3.0 | 3.0 | 0.0 | |
| GEU0101 | 29 Natural Disasters | 3.0 | 3.0 | 0.0 | |
| GEU0103 | 30 Environmental Geography | 2.0 | 2.0 | 0.0 | |
| GEU0108 | 31 Oceanography | 3.0 | 3.0 | 0.0 | |
| GEU0120 | 32 Geography of China | 2.0 | 2.0 | 0.0 | |
| GEU0128 | 33 Application Computer Programming to Geography | 3.0 | 3.0 | 0.0 | |
| GEU0151 | 34 Soil and Water Conservation | 3.0 | 3.0 | 0.0 | |
| GEU0152 | 35 Digital Terrain Analysis | 2.0 | 2.0 | 0.0 | |
| GEU0154 | 36 Community Planning | 3.0 | 3.0 | 0.0 | |
| GEU0160 | 37 Political Economy of Space | 3.0 | 3.0 | 0.0 | |
| GEU0170 | 38 E Natural Resource Conservation | 3.0 | 3.0 | 0.0 | |
| GEU0174 | 39 Engineering Geomorphology | 3.0 | 3.0 | 0.0 | |
| GEU0176 | 40 Satellite Image Analysis and Applications | 3.0 | 3.0 | 0.0 | |
| GEU0178 | 41 Watershed Management | 3.0 | 3.0 | 0.0 | |
| GEU0179 | 42 E The Geography of Everyday Life | 3.0 | 3.0 | 0.0 | |
| GEU0183 | 43 E Geography of Development | 3.0 | 3.0 | 0.0 | |
| GEU0184 | 44 Surveying | 3.0 | 3.0 | 0.0 | |
| GEU0186 | 45 Urban Design and Regeneration | 3.0 | 3.0 | 0.0 | |
| GEU0187 | 46 National Park and World Heritage | 2.0 | 2.0 | 0.0 | |
| GEU0188 | 47 Site Planning | 3.0 | 3.0 | 0.0 | |
| GEU0194 | 48 Ecotourism and Recreation | 3.0 | 3.0 | 0.0 | |
| GEU0199 | 49 E Sustainable Tourism Management | 3.0 | 3.0 | 0.0 | |
| GEU0201 | 50 Reading the Classics in Human Geography | 3.0 | 3.0 | 0.0 | |
| GEU0202 | 51 Approach in Geography | 3.0 | 3.0 | 0.0 | |
| GEU0203 | 52 Spatial Decision Support System | 2.0 | 2.0 | 0.0 | |
| GEU0204 | 53 Urban Sociology | 3.0 | 3.0 | 0.0 | |
| GEU0209 | 54 Recreational Resource Management | 2.0 | 2.0 | 0.0 | |
| GEU0213 | 55 Studies in Teaching of Introduction to Geography | 2.0 | 2.0 | 0.0 | |
| GEU0214 | 56 Studies in Teaching of Regional Geography | 2.0 | 2.0 | 0.0 | |
| GEU0215 | 57 Spatial Experience and Observation | 2.0 | 2.0 | 0.0 | |
| GEU0216 | 58 Thinking Geographically in Film | 3.0 | 3.0 | 0.0 | |
| GEU0217 | 59 Field Surveying Practice | 2.0 | 0.0 | 4.0 | |
| GEU0218 | 60 The Global Positioning System | 2.0 | 2.0 | 0.0 | |
| GEU0226 | 61 Environmental Sustainability | 3.0 | 3.0 | 0.0 | |
| GEU0227 | 62 Land Laws and Regulations | 3.0 | 3.0 | 0.0 | |
| GEU0228 | 63 Advanced Geographic Information Systems | 3.0 | 3.0 | 0.0 | |
| GEU0229 | 64 Project-Based Learning in Geography | 3.0 | 3.0 | 0.0 | |
| GEU0230 | 65 Environmental Protection Administration | 2.0 | 2.0 | 0.0 | |
| GEU0231 | 66 Evaluation of Geography Education | 2.0 | 2.0 | 0.0 | |
| GEU0232 | 67 Research in Methods and Material of Teaching Geography | 2.0 | 2.0 | 0.0 | |
| GEU0235 | 68 Environmental Management and Regional Planning Practice | 3.0 | 3.0 | 0.0 | |
| GEU0236 | 69 Water Resources Engineering and Planning | 3.0 | 3.0 | 0.0 | |
| GEU0237 | 70 Landscape Graphic Drawing | 3.0 | 3.0 | 0.0 | |
| GEU0238 | 71 Geography of Railways | 2.0 | 2.0 | 0.0 | |
| GEU0239 | 72 Geovisualization | 3.0 | 3.0 | 0.0 | |
| GEU0240 | 73 Special Topics in the Inquiry and Practice of Social Studies | 2.0 | 2.0 | 0.0 | |
| GEU0241 | 74 Introduction to Social Studies | 2.0 | 2.0 | 0.0 | |
| GEU0242 | 75 Indigenous Geography | 3.0 | 3.0 | 0.0 | |
| GEU0243 | 76 Urban and Regional Planning | 3.0 | 3.0 | 0.0 | |
| GEU0244 | 77 Morphometry and Field Geomorphology | 3.0 | 3.0 | 0.0 | |
| GEU0256 | 78 Home Geography | 2.0 | 2.0 | 0.0 | |

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|-------------|--|-----------|--------------|-------------------|------|
| | | | Lecture Hour | Lab/Practice Hour | |
| GEU0246 | 79 Computer-Aided Geography Instruction | 2.0 | 2.0 | 0.0 | |
| GEU0247 | 80 Urban Geographic Information System | 3.0 | 3.0 | 0.0 | |
| GEU0248 | 81 Location Analysis and Site Selection | 3.0 | 3.0 | 0.0 | |
| GEU0249 | 82 Introduction to Biodiversity and Conservation Biology | 3.0 | 3.0 | 0.0 | |
| GEU0250 | 83 Biodiversity in Taiwan | 3.0 | 3.0 | 0.0 | |
| GEU0251 | 84 Indigenous People for Environmental Conservation | 2.0 | 2.0 | 0.0 | |
| GEU0252 | 85 E Population, Culture and Migration in Europe | 3.0 | 3.0 | 0.0 | |
| GEU0253 | 86 E Sustainable Development in East Asia | 1.0 | 1.0 | 0.0 | |
| GEU0254 | 87 Toponymy | 2.0 | 2.0 | 0.0 | |
| GEU0255 | 88 Military and Strategic Geography | 3.0 | 3.0 | 0.0 | |

IV. Free Elective Credits: 21.0 credits are required