

* **Physical Geography** (*Dated September 30th, 2015*)

Total credits of the curriculum: 140 credits

- **General education knowledge: 28 credits**

(Not including physical education, military defense education and soft skills)

- **Basic courses: 06 credits**

- **Fundamental courses: 22 credits**

- **Core courses: 19 credits**

+ *Required: 17 credits*

+ *Elective: 2/8 credits*

- **Advanced courses: 65 credits**

+ *Required: 45 credits*

+ *Elective: 13/89 credits*

+ *Undergraduate thesis/ Credits replace undergraduate thesis: 7 credits*

Available curriculum

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I		General education knowledge <i>(Not including subjects 10 - 12)</i>	28				
1	PHI1004	<i>Fundamental Principles of Marxism - Leninism 1</i>	2	24	6		
2	PHI1005	<i>Fundamental Principles of Marxism - Leninism 2</i>	3	36	9		PHI1004
3	POL1001	<i>Ho Chi Minh Ideology</i>	2	20	10		PHI1005
4	HIS1002	<i>The Revolutionary line of the Communist Party of Vietnam</i>	3	42	3		POL1001
5	INT1003	<i>Introduction to Informatics 1</i>	2	10	20		
6	INT1005	<i>Introduction to Informatics 3</i>	2	12	18		INT1003
7	FLF2101	<i>General English 1</i>	4	16	40	4	
8	FLF2102	<i>General English 2</i>	5	20	50	5	FLF2101
9	FLF2103	<i>General English 3</i>	5	20	50	5	FLF2102
10		<i>Physical Education</i>	4				
11		<i>National Defense Education</i>	8				
12		<i>Soft Skills</i>	3				
II		Basic courses	6				
13	HIS1056	<i>Fundamentals of Vietnamese Culture</i>	3	42	3		
14	GEO1050	<i>Earth and Life Sciences</i>	3	30	10	5	
III		Fundamental courses	22				
15	MAT1090	<i>Linear Algebra</i>	3	30	15		
16	MAT1091	<i>Calculus 1</i>	3	30	15		
17	MAT1192	<i>Calculus 2</i>	2	20	10		MAT1091
18	MAT1101	<i>Probability and Statistics</i>	3	27	18		MAT1091
19	PHY1100	<i>Mechanics - Thermodynamics</i>	3	30	15		MAT1091

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
20	PHY1103	<i>Electromagnetism - Optics</i>	3	30	15		MAT1091
21	CHE1080	<i>General Chemistry</i>	3	42		3	
22	PHY1104	<i>General Physics Practice</i>	2		30		PHY1103
IV		Core courses	19				
IV.1		<i>Required</i>	17				
23	GEO2317	<i>Fundamental Geography</i>	5	45	25	5	GEO1050
24	GEO2318	<i>Geodesy</i>	3	25	15	5	
25	GEO2060	<i>Cartography</i>	3	25	15	5	
26	GEO2091	<i>Fundamentals of remote sensing</i>	3	25	15	5	GEO2318 GEO2060
27	GEO2319	<i>Geographic Information System</i>	3	25	15	5	INT1003 GEO2060
IV.2		<i>Elective</i>	2/8				
28	GEO2320	<i>Environmental Science and Climate change</i>	2	15	10	5	GEO2317
29	GEO2321	<i>Mathematics in Geography</i>	2	15	10	5	MAT1091 GEO2317
30	GEO2322	<i>of remote sensing and GIS in studies of marine geography and environment</i>	2	15	10	5	GEO2091 GEO2319
31	GEO2323	<i>Environment and Resource Management</i>	2	15	10	5	GEO2317
V		Advanced courses	65				
V.1		<i>Required</i>	45				
32	GEO3208	<i>Fundamentals of Geology</i>	3	30	10	5	GEO1050 GEO2060
33	GEO3221	<i>Geomorphology</i>	3	30	10	5	GEO3208
34	GEO3209	<i>Climatology - Hydrographic</i>	4	40	15	5	

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
35	GEO2110	<i>Soil science and soil geography</i>	3	30	10	5	GEO1050 GEO2318 GEO2060
36	GEO3224	<i>Marine Geography and Environment</i>	3	35	5	5	GEO3221
37	GEO3225	<i>Biogeography and Landscape Ecology</i>	4	35	20	5	GEO2110
38	GEO3227	<i>Natural Hazards</i>	2	20	5	5	GEO2317 GEO3221 GEO3209
39	GEO3229	<i>Demography and population geography</i>	3	20	20	5	GEO1050
40	GEO2025	<i>Fundamental planning and territorial organization</i>	2	15	10	5	GEO2317
41	GEO3230	<i>World and Regional Geography</i>	3	25	15	5	GEO2317
42	GEO3231	<i>Geography of Vietnam</i>	5	45	25	5	GEO2317
43	GEO2303	<i>Nature Fieldtrip</i>	2		30		GEO3208
44	GEO3210	<i>Practice on Geodesy</i>	2	10	15	5	GEO2318 GEO2060
45	GEO3226	<i>Physical Geography Fieldtrip</i>	2		30		GEO1050 GEO2060 GEO2318
46	GEO4070	<i>Fieldtrip for specific purposes</i>	2		30		
47	GEO4071	<i>Essay</i>	2		30		
V.2		<i>Elective</i>	<i>13/89</i>				
48	GEO3212	<i>Landscape science and applications</i>	4	30	25	5	GEO2317 GEO3225

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
49	GEO3213	<i>Environmental Economics and Ecological Economics</i>	2	20	5	5	GEO3225
50	GEO3214	<i>Methods and technologies for studies of landscape ecology and environment</i>	4	30	25	5	GEO3225
51	GEO3237	<i>Taxonomy of Plant and Forest Ecosystems in Vietnam</i>	3	20	20	5	GEO3231 GEO3225
52	GEO3294	<i>Dynamic Geomorphology</i>	3	20	20	5	GEO2317 GEO3221
53	GEO3238	<i>Applied Geomorphology</i>	3	20	20	5	GEO3227
54	GEO3239	<i>Geology and Environmental Change in Quaternary</i>	3	25	15	5	GEO2317 GEO3221
55	GEO3116	<i>Methods for Geomorphological Research and Mapping</i>	2	15	10	5	GEO3221 GEO2060
56	GEO3117	<i>Application of Remote sensing and GIS in studies of geomorphology and natural hazards</i>	2	15	10	5	GEO2091 GEO2319 GEO3227
57	GEO3295	<i>Coastal Geomorphology</i>	3	20	20	5	GEO3224
58	GEO3242	<i>Marine Geology and Geomorphology</i>	3	20	20	5	GEO3221
59	GEO3243	<i>Marine Ecology</i>	3	30	10	5	GEO3224 GEO3225
60	GEO3023	<i>Methods for Researching Marine Geography and Environment</i>	2	15	10	5	GEO2317 GEO3224
61	GEO3296	<i>Marine Management</i>	2	15	10	5	GEO3224
62	GEO3246	<i>Topographic map and digital cartography</i>	3	20	20	5	GEO2317 GEO2318 GEO2060
63	GEO3247	<i>Spatial Analysis</i>	3	20	20	5	GEO2091 GEO2319
64	GEO3248	<i>Digital Image Processing</i>	3	10	30	5	GEO2091

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							GEO2317
65	GEO3118	<i>Geovisualization</i>	4	25	30	5	GEO2091 GEO2319
66	GEO3298	<i>Research methods in Human Geography</i>	4	25	30	5	GEO3231 GEO2025
67	GEO3299	<i>Industrial and Urban Geography</i>	2	15	10	5	GEO3231
68	GEO3090	<i>Agricultural Geography</i>	2	15	10	5	GEO3231
69	GEO3300	<i>Basic Ecological Economics</i>	2	15	10	5	GEO2317
70	GEO3114	<i>Social Geography</i>	3	20	20	5	GEO2317
71	GEO3254	<i>Tourism Geography</i>	3	25	15	5	GEO3231
72	GEO3255	<i>Tourism Resources and Environment</i>	3	25	15	5	GEO2317
73	GEO3253	<i>Cultural Geography and Ethnics in Vietnam</i>	3	25	15	5	GEO3231
74	GEO3259	<i>Urban and Rural Planning</i>	3	25	15	5	GEO2025
75	GEO3260	<i>Environmental Protection Planning</i>	3	20	20	5	GEO2025
76	GEO3261	<i>Applied GIS and Remote Sensing in Territorial Organization and Planning</i>	3	20	20	5	GEO2025 GEO2091 GEO2319
77	EVS2304	<i>Fundamentals of Environment of soil, water and air</i>	3	36	9		GEO1050
78	GLO3111	<i>Environmental Geology</i>	3	36	6	3	
V.3		<i>Undergraduate thesis/ Subjects replace thesis</i>	7				
79	GEO4075	<i>Thesis</i>	7				
		<i>Subjects replacing thesis</i>	7/12				
80	GEO3219	<i>Environmental Impact Assessment</i>	3	25	15	5	GEO2317

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
81	GEO3301	<i>Project planning and implementation</i>	3	25	15	5	GEO2091 GEO2319
82	GEO3302	<i>Regional Geography</i>	2	15	10	5	GEO3231 GEO3230
83	GEO2310	<i>Geomorphology in Land Management</i>	2	15	10	5	GEO3221
84	GEO2313	<i>Protection of Soil Resource and Environment</i>	2	15	10	5	GEO2317
		Total	140				