

*** Honors Program in Physical Geography** (*Dated September 30th, 2015*)

Total credits of the curriculum:	156 credits
- General education knowledge:	33 credits
<i>(Not including physical education, military defense education and so</i>	
- Basic courses:	6 credits
- Fundamental courses:	23 credits
- Core courses:	19 credits
+ <i>Required:</i>	<i>17 credits</i>
+ <i>Elective:</i>	<i>2/8 credits</i>
- Advanced courses:	75 credits
+ <i>Required:</i>	<i>50 credits</i>
+ <i>Elective:</i>	<i>15/99 credits</i>
+ <i>Undergraduate thesis:</i>	<i>10 credits</i>

Available curriculum

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
I		General education knowledge <i>(Not including subjects 11 -13)</i>	33				
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	FLF2104	<i>General English 4</i>	5	20	50	5	FLF2103
11		<i>Physical Education</i>	4				
12		<i>National Defence Education</i>	8				
13		<i>Soft Skills</i>	3				
II		Basic courses	6				
14	HIS1056	<i>Fundamentals of Vietnamese Culture</i>	3	42	3		HIS1056
15	GEO1050	<i>Earth and Life Sciences</i>	3	30	10	5	GEO1050
III		Fundamental courses	23				
16	MAT1090	<i>Linear Algebra</i>	3	30	15		
17	MAT1091	<i>Calculus 1</i>	3	30	15		
18	MAT1092	<i>Calculus 2</i>	3	30	15		MAT1091
19	MAT1101	<i>Probability and Statistics</i>	3	27	18		MAT1091
20	PHY1100	<i>Mechanics - Thermodynamics</i>	3	30	15		MAT1091
21	PHY1103	<i>Electromagnetism - Optics</i>	3	30	15		MAT1091
22	CHE1080	<i>General Chemistry</i>	3	42		3	

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
23	PHY1104	<i>General Physics Practice</i>	2		30		PHY1103
IV		Core courses	19				
IV.1		<i>Required</i>	17				
24	GEO2317	<i>Fundamental Geography</i>	5	45	25	5	GEO1050
25	GEO2318	<i>Geodesy</i>	3	25	15	5	
26	GEO2060	<i>Cartography</i>	3	25	15	5	
27	GEO2091	<i>Fundamentals of remote sensing</i>	3	25	15	5	GEO2318 GEO2060
28	GEO2319	<i>Geographic Information System</i>	3	25	15	5	INT1003 GEO2060
IV.2		<i>Elective</i>	2/8				
29	GEO2320	<i>Environmental Science and Climate change</i>	2	15	10	5	GEO2317
30	GEO2321	<i>Mathematics in Geography</i>	2	15	10	5	MAT1091 GEO2317
31	GEO2322	<i>Application of remote sensing and GIS in studies of marine geography and environment</i>	2	15	10	5	GEO2091 GEO2319
32	GEO2323	<i>Environment and Resource Management</i>	2	15	10	5	GEO2317
V		Advanced courses	75				
V.1		<i>Required</i>	50				
33	GEO3208	<i>Fundamentals of Geology</i>	3	30	10	5	GEO1050 GEO2060
34	GEO3221	<i>Geomorphology</i>	3	30	10	5	GEO3208
35	GEO3209	<i>Climatology - Hydrographic</i>	4	38	12	10	GEO1050
36	GEO2110	<i>Soil science and soil geography</i>	3	30	10	5	GEO1050 GEO2318 GEO2060

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
37	GEO3224	<i>Marine Geography and Environment</i>	3	35	5	5	GEO3221
38	GEO3225	<i>Biogeography and Landscape Ecology</i>	4	35	20	5	GEO2110
39	GEO3227	<i>Natural Hazards</i>	2	20	5	5	GEO2317 GEO3221 GEO3209
40	GEO3229	<i>Demography and population geography</i>	3	20	20	5	GEO1050
41	GEO2025	<i>Fundamental planning and territorial organization</i>	2	15	10	5	GEO2317
42	GEO3230	<i>World and Regional Geography</i>	3	25	15	5	GEO2317
43	GEO3231	<i>Geography of Vietnam</i>	5	45	25	5	GEO2317
44	GEO3211	<i>Quantitative methods in geographic studies</i>	3	20	20	5	GEO2317 MAT1101
45	GEO2303	<i>Nature Fieldtrip</i>	2		30		GEO3208
46	GEO3210	<i>Practice on Geodesy</i>	2	10	15	5	GEO2318 GEO2060
47	GEO3226	<i>Physical Geography Fieldtrip</i>	2		30		GEO1050 GEO2060 GEO2318
48	GEO4076	<i>Fieldtrip for specific purposes</i>	2		30		
49	GEO4077	<i>Essay</i>	2		30		
50	GEO3306	<i>Advanced Essay</i>	2		30		
V.2		<i>Advanced courses</i>	15/99				
51	GEO3212	<i>Landscape science and applications</i>	4	25	25	10	GEO2317 GEO3225
52	GEO3213	<i>Environmental Economics and Ecological Economics</i>	2	20	5	5	GEO3225

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
53	GEO3214	<i>Methods and technologies for studies of landscape ecology and environment</i>	4	25	25	10	GEO3225
54	GEO3237	<i>Taxonomy of Plant and Forest Ecosystems in Vietnam</i>	3	20	20	5	GEO3231 GEO3225
55	GEO3004	<i>Microclimate</i>	2	20	5	5	GEO3209
56	GEO3294	<i>Dynamic Geomorphology</i>	3	20	20	5	GEO2317 GEO3221
57	GEO3238	<i>Applied Geomorphology</i>	3	20	20	5	GEO3227
58	GEO3239	<i>Geology and Environmental Change in Quaternary</i>	3	25	15	5	GEO2317 GEO3221
59	GEO3116	<i>Methods for Geomorphological Research and Mapping</i>	2	15	10	5	GEO3221 GEO2060
60	GEO3117	<i>Application of Remote sensing and GIS in studies of geomorphology and natural hazards</i>	2	15	10	5	GEO2091 GEO2319 GEO3227
61	GEO3115	<i>Environmental Geomorphology</i>	2	15	10	5	GEO3221
62	GEO3295	<i>Coastal Geomorphology</i>	3	20	20	5	GEO3224

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
63	GEO3242	<i>Marine Geology and Geomorphology</i>	3	20	20	5	GEO3221 GEO3208
64	GEO3243	<i>Marine Ecology</i>	3	30	10	5	GEO3224 GEO3225
65	GEO3023	<i>Methods for Researching Marine Geography and Environment</i>	2	15	10	5	GEO2317 GEO3224
66	GEO3296	<i>Marine Management</i>	2	15	10	5	GEO3224
67	GEO3297	<i>Bioeomorphology</i>	2	15	10	5	GEO3221 GEO3225
68	GEO3246	<i>Topographic map and digital cartography</i>	3	20	20	5	GEO2317 GEO2318 GEO2060
69	GEO3247	<i>Spatial Analysis</i>	3	20	20	5	GEO2091 GEO2319
70	GEO3248	<i>Digital Image Processing</i>	3	10	30	5	GEO2091 GEO2317
71	GEO3118	<i>Geovisualization</i>	4	20	30	10	GEO2091 GEO2319
72	GEO3109	<i>GIS modeling</i>	2	15	10	5	GEO2091 GEO2319
73	GEO3298	<i>Research methods in Human Geography</i>	4	20	30	10	GEO3231 GEO2025
74	GEO3299	<i>Industrial and Urban Geography</i>	2	15	10	5	GEO3231
75	GEO3090	<i>Agricultural Geography</i>	2	15	10	5	GEO2317
76	GEO3300	<i>Basic Ecological Economics</i>	2	15	10	5	GEO3231

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
77	GEO3114	<i>Social Geography</i>	3	20	20	5	GEO3231 GEO2025
78	GEO3303	<i>Applications of Remote Sensing and GIS for Socio-Economic Geography</i>	2	25	10	5	GEO2317 GEO2091 GEO2319
79	GEO3254	<i>Tourism Geography</i>	3	25	15	5	GEO3231
80	GEO3255	<i>Tourism Resources and Environment</i>	3	25	15	5	GEO2317
81	GEO3253	<i>Cultural Geography and Ethnics in Vietnam</i>	3	25	15	5	GEO3231
82	GEO3259	<i>Urban and Rural Planning</i>	3	25	15	5	GEO2025
83	GEO3260	<i>Environmental Protection Planning</i>	3	20	20	5	GEO2025
84	GEO3261	<i>Applied GIS and Remote Sensing in Territorial Organization and Planning</i>	3	20	20	5	GEO2025 GEO2091 GEO2319
85	EVS2304	<i>Fundamentals of Environment of soil, water and air</i>	3	36	9		GEO1050
86	GLO3111	<i>Environmental Geology</i>	3	36	6	3	
V.3		<i>Undergraduate thesis</i>	10				
87	GEO4078	<i>Thesis</i>	10				
		Total	156				