

**\* Honors Program in Geology** (*Dated September 30<sup>th</sup>, 2015*)

<b>Total credits of the curriculum :</b>	<b>154 credits</b>
- <b>General education knowledge:</b>	<b>33 credits</b>
<i>(Not including physical education, military defense education and self skills)</i>	
- <b>Basic courses:</b>	<b>6 credits</b>
- <b>Fundamental courses:</b>	<b>22 credits</b>
- <b>Core courses:</b>	<b>31 credits</b>
+ <i>Required:</i>	<i>25 credits</i>
+ <i>Elective:</i>	<i>6/12 credits</i>
- <b>Advanced courses:</b>	<b>62 credits</b>
+ <i>Required:</i>	<i>43 credits</i>
+ <i>Elective:</i>	<i>9/27 credits</i>
+ <i>Graduation thesis:</i>	<i>10 credits</i>

## Available curriculum

No.	Code	Subjects	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
<b>I</b>		<b>General education knowledge</b> <i>(Not including subjects 11 -13)</i>	<b>34</b>				
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				
<b>II</b>		<b>Basic courses</b>	<b>6</b>				
14	HIS1056	<i>Fundamentals of Vietnamese Culture</i>	3	42	3		
15	GEO1050	<i>Earth and Life Sciences</i>	3	30	10	5	
<b>III</b>		<b>Fundamental courses</b>	<b>22</b>				
16	MAT1090	<i>Linear Algebra</i>	3	30	15		
17	MAT1091	<i>Calculus 1</i>	3	30	15		
18	MAT1192	<i>Calculus 2</i>	2	20	10		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	PHY1104	<i>General Physics Practice</i>	2		30		PHY1100
23	CHE1080	<i>General chemistry</i>	3	42		3	

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<b>IV</b>		<b>Core courses</b>	<b>31</b>				
<b>IV.1</b>		<b>Required</b>	<b>25</b>				
24	GLO2076	<i>English for Geology</i>	3	20	20	5	FLF2103
25	GLO2078	<i>Physical Geology</i>	4	45	10	5	GEO1050
26	GEO2059	<i>GIS and remote sensing</i>	3	15	25	5	GLO2078
27	GLO2068	<i>Natural Disasters</i>	3	30	10	5	GLO2078
28	GLO2066	<i>Exploring Geology in Field</i>	3		45		GLO2078
29	GLO2074	<i>Introduction to Geophysics</i>	3	30	10	5	GLO2078
30	GLO2058	<i>Applied Geoinformatics</i>	3	15	25	5	GE02059
31	GLO2086	<i>Techniques of Geological Survey</i>	3	10	30	5	GLO2074
<b>IV.2</b>		<b>Elective</b>	<b>6/12</b>				
32	GLO2069	<i>Geomorphology</i>	3	30	10	5	GLO2078
33	GLO3120	<i>Marine Geology</i>	3	30	10	5	GLO2074
34	GLO2080	<i>Geodesy</i>	3	30	10	5	GEO1050
35	GLO2088	<i>Marine Geophysics</i>	3	30	10	5	GLO2074
<b>V</b>		<b>Advanced courses</b>	<b>62</b>				
<b>VI</b>		<b>Required</b>	<b>43</b>				
36	GLO2057	<i>Mineralogy and Mineral Optics</i>	5	40	30	5	GLO2078
37	GLO2064	<i>Petrology and petrography</i>	5	35	35	5	GLO2057
38	GLO2065	<i>Sedimentology and Stratigraphy</i>	5	35	35	5	GLO2057
39	GLO2062	<i>Structural Geology and Tectonics</i>	5	35	35	5	GLO2064 GLO2065
40	GLO2067	<i>Geology in the Field</i>	3		45		GLO2062
41	GLO2070	<i>Geochemistry</i>	3	30	10	5	GLO2064, GLO2065
42	GLO2071	<i>Introduction to Paleontology</i>	3	30	10	5	GLO2078
43	GLO2091	<i>History of Earth</i>	3	30	10	5	GLO2062
44	GLO2073	<i>Geology of Vietnam</i>	5	55	15	5	GLO2071 GLO2062

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				Lecture	Practice	Self-study	
45	GLO3110	<i>Earth Materials and the Environment</i>	3	30	10	5	GLO2078
46	GLO2092	<i>Scientific method in Geology</i>	3	10	30	5	GLO2078
<b>V2</b>		<b><i>Elective</i></b>	<b>9/27</b>				
47	GLO3111	<i>Environmental Geology</i>	3	30	10	5	GLO2078
48	GLO3113	<i>Earth Systems Modeling</i>	3	30	10	5	GLO2078
49	GLO3092	<i>Minerals of Vietnam</i>	3	30	10	5	GLO2078
50	GLO3136	<i>Petroleum basins of Vietnam</i>	3	30	10	5	GLO2064 GLO2065
51	GLO3127	<i>Petroleum Geology</i>	3	30	10	5	GLO2062
52	GLO2095	<i>Quaternary Geology</i>	3	30	10	5	GLO2065
53	GLO2096	Minerals processing technology	3	30	10	5	GLO3092
54	GLO4009	<i>Methods of minerals and geological exploration</i>	3	30	10	5	GLO3092
55	GLO2097	<i>Methods of minerals and geological mapping</i>	3	25	15	5	GLO2086
<b>V3</b>		<b><i>Graduation thesis</i></b>	<b>10</b>				
56	GLO4055	<i>Graduate thesis</i>	10				GLO2092
		<b>Total</b>	<b>154</b>				