

* **Environmental Science** (*Dated September 30th, 2015*)

Total credits of the curriculum :	139 credits
- General education knowledge:	28 credits
<i>(Not including physical education, military defense education and soft skills)</i>	
- Basic courses:	6 credits
- Fundamental courses:	27 credits
- Core courses:	15 credits
+ <i>Required:</i>	<i>12 credits</i>
+ <i>Elective:</i>	<i>3/9 credits</i>
- Advanced courses:	63 credits
+ <i>Required:</i>	<i>41 credits</i>
+ <i>Elective:</i>	<i>15 credits</i>
+ <i>Graduation thesis/ Subjects replacing thesis:</i>	<i>7 credits</i>

Available curriculum

No.	Code	Subject	Credit	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	27				
15	MAT1090	<i>Linear Algebra</i>	3	30	15		

No.	Code	Subject	Credit	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
16	MAT1091	<i>Calculus 1</i>	3	30	15		
17	MAT1092	<i>Calculus 2</i>	3	30	15		MAT1091
18	MAT1101	<i>Probability and Statistics</i>	3	27	18		MAT1091
19	PHY1100	<i>Mechanics - Thermodynamics</i>	3	30	15		MAT1091
20	PHY1103	<i>Electromagnetism - Optics</i>	3	30	15		MAT1091
21	CHE1080	<i>General chemistry</i>	3	42		3	
22	CHE1081	<i>Organic Chemistry</i>	3	42		3	CHE1080
23	CHE1057	<i>Analytical Chemistry</i>	3	42		3	CHE1080
IV		Core courses	15				
IV.1		Required	12				
24	BIO1061	<i>Basic Biology</i>	3	42		3	
25	EVS2301	<i>Natural Resources</i>	3	36	9		EVS2304
26	EVS2302	<i>Fundamentals of Environmental Science</i>	3	37	8		GEO1050
27	EVS2304	<i>Principles of soil, water, and air environments</i>	3	36	9		CHE1080 BIO1061 EVS2302
IV.2		Elective	3/9				
28	EVS2305	<i>Climate Change</i>	3	35	10		EVS2304
29	EVS2306	<i>Environmental Geology</i>	3	35	10		EVS2304
30	EVS2307	<i>Environmental Ecology</i>	3	42		3	EVS2301
V		Advanced courses	63				
V.1		Required	41				
31	EVS3240	<i>Environmental Microbiology</i>	3	30	15		BIO1061 EVS2302
32	EVS3241	<i>Environmental Chemistry</i>	3	40		5	EVS2304
33	EVS3242	<i>Environmental Analysis Methods</i>	3	25	15	5	CHE1057 EVS2304
34	EVS3243	<i>Fundamentals of Environmental Technology</i>	3	45			CHE1081 CHE1057 BIO1061

No.	Code	Subject	Credit	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
							EVS2302
35	EVS3244	<i>Environmental Management</i>	3	39	3	3	EVS2302
36	EVS3245	<i>Introduction to Mathematics for Environmental Science</i>	3	30	10	5	MAT1092
37	EVS2009	<i>Environmental Physics</i>	2	30			CHE1057 EVS2302
38	EVS3247	<i>Environmental Assessment</i>	3	30	10	5	EVS2301 EVS2304
39	EVS3248	<i>Environmental Economics</i>	3	30	10	5	EVS3244
40	EVS2017	<i>Environment Laws and Policies</i>	2	30			
41	EVS3250	<i>Geographic Information Systems</i>	3	25	15	5	
42	EVS3331	<i>Informatics for Environmental Science</i>	2	10	20		
43	EVS2016	<i>Environmental Toxicology and Health</i>	2	30			BIO1061 EVS2302
44	EVS3332	<i>Field Study 1</i>	2	5	25		EVS2304
45	EVS3333	<i>Field Study 2</i>	2	5	25		EVS3243 EVS3247
46	EVS4071	<i>Practical Chemistry</i>	2	5	25		CHE1057 CHE1081
V.2		<i>Elective</i>	15/105				
V.2.1		<i>The intensive subjects in environmental management</i>	15				
47	EVS3251	<i>Environmental Auditing</i>	3	30	10	5	EVS3247 EVS3244
48	EVS3252	<i>Environmental Planning</i>	3	30	12	3	EVS2302 EVS3247
49	EVS3253	<i>Environmental Management System</i>	3	36	9		EVS3244 EVS3247 EVS3243
50	EVS3254	<i>Environmental Monitoring</i>	3	30	10	5	EVS3244
51	EVS3255	<i>Application of GIS in Environmental Management</i>	3	20	20	5	INT1005 EVS3244

No.	Code	Subject	Credit	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
V.2.2		<i>The intensive subjects in soil environment</i>	15				
52	EVS3256	<i>Soil Pollution and Remediation</i>	3	40		5	EVS2304
53	EVS3257	<i>Chemical Fertilizers and Soil Environment</i>	3	30	10	5	CHE1057 EVS3241
54	EVS3258	<i>Environmental Soil Chemistry</i>	3	30	15		
55	EVS3259	<i>Environmental Soil Ecology</i>	3	30	12	3	BIO1061
56	EVS3260	<i>Environmental Indicators</i>	3	40		5	BIO1061 EVS2302
V.2.3		<i>The intensive subjects in environmental ecology</i>	15				
57	EVS3261	<i>Application of Conservation Biology</i>	3	36	9		
58	EVS3262	<i>Human Ecology</i>	3	30	15		
59	EVS3263	<i>Biodiversity</i>	3	40		5	BIO1061
60	EVS3264	<i>Environmental Ecology for Regions</i>	3	45			EVS2304 EVS2301
61	EVS3265	<i>Ecotourism</i>	3	25	15	5	BIO1061 EVS2301 EVS2302
V.2.4		<i>The intensive subjects in environmental toxicology and handling of toxic substances</i>	15				
62	EVS3334	<i>Hygiene and food safety</i>	3	40		5	EVS2016
63	EVS3267	<i>Methods for Toxicant Analysis</i>	3	30	15		EVS3242
64	EVS3268	<i>Ecological Toxicology</i>	3	30	15		
65	EVS3269	<i>Toxicant Risk Management</i>	3	40		5	EVS3241 EVS2016
66	EVS3270	<i>Face of toxicant in Environment</i>	3	35	10		
V.2.5		<i>The intensive subjects in environmental water</i>	15				
67	EVS3271	<i>Environmental Water Chemistry</i>	3	40		5	CHE1081 EVS3241

No.	Code	Subject	Credit	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
68	EVS3272	<i>Sustainable Use and Management of Water Resources</i>	3	30	15		EVS2301
69	EVS3273	<i>Water Pollution</i>	3	30	15		
70	EVS3274	<i>Environmental Water Ecology</i>	3	30	15		EVS2307
71	EVS3275	<i>Analysis and Assessment of Water Quality</i>	3	20	20	5	EVS3242
V.2.6		<i>The intensive subjects in environmental modeling</i>	15				
72	EVS3276	<i>Applied GIS and Environmental Modeling in Environmental Mapping</i>	3	39	6		EVS2302 EVS3250 EVS3245
73	EVS3277	<i>Environmental Assessing Modeling</i>	3	34	6	5	EVS3245
74	EVS3278	<i>Environmental Pollution Forecasting Models</i>	3	25	15	5	EVS3245
75	EVS3279	<i>Monitoring and Processing of Environmental Data</i>	3	36	9		EVS3242 MAT1101
76	EVS3280	<i>Emission Inventories</i>	3	45			EVS2304 EVS3245
V.2.7		<i>The intensive subjects in marine environment</i>	15				
77	EVS3335	<i>Basic of marine resources and environment</i>	3	35	7	3	EVS3244 EVS3241
78	EVS3282	<i>Marine Spatial Planning</i>	3	45			EVS3244
79	EVS3283	<i>Marine Pollution Management</i>	3	45			EVS2301 EVS3244
80	EVS3284	<i>Marine Environment Laws and Policies</i>	3	35	7	3	EVS2017 EVS3244

No.	Code	Subject	Credit	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
81	EVS3285	<i>Marine Protected Areas Management</i>	3	45			BIO1061 EVS3244
V.3		<i>Graduation thesis/ Subjects replacing thesis</i>	7				
V.3.1		<i>Graduation thesis</i>	7				
82	EVS4075	<i>Graduation Thesis</i>	7				
V.3.2		<i>Subjects replacing thesis</i>	7				
83	EVS4076	<i>Environmental Sciences and Natural Resources</i>	3	30	15		EVS2302
84	EVS4077	<i>Practical Environmental Analysis and Assessment</i>	2	10	20		EVS3242
85	EVS4078	<i>Environmental of Sociology</i>	2	30			EVS2302
		Total	139				