

* **Meteorology** (*Dated September 30th, 2015*)

Total credits of the curriculum : **134 credits**

- **General education knowledge:** **28 credits**

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

- **Basic courses:** **6 credits**

- **Fundamental courses:** **23 credits**

- **Core courses:** **9 credits**

- **Advanced courses:** **68 credits**

+ *Required:* *46 credits*

+ *Elective:* *15/38 credits*

+ *Graduation thesis/ subjects replacing 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 Defence 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	23				
15	MAT1090	<i>Linear Algebra</i>	3	30	15		
16	MAT1091	<i>Calculus 1</i>	3	30	15		

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
17	MAT1092	<i>Calculus 2</i>	3	30	15		MAT1091
18	MAT1101	<i>Statistics and probability</i>	3	27	18		MAT1091
19	PHY1100	<i>Mechanics – Thermodynamics</i>	3	30	15		MAT1091
20	PHY1103	<i>Electrics - Optics</i>	3	30	15		PHY1100
21	CHE1080	<i>General Chemistry</i>	3	42		3	
22	CHE1069	<i>General Chemistry Laboratory</i>	2		30		CHE1080
IV		Core courses	9				
23	HMO2201	<i>Calculation Methods</i>	3	36	6	3	MAT1092
24	HMO2202	<i>Fluid Dynamics</i>	3	33	9	3	MAT1092 PHY1100
25	HMO2203	<i>GIS and Remote Sensing</i>	3	30	12	3	
V		Advanced courses	68				
V.1		Required	46				
26	HMO3204	<i>General Meteorology</i>	3	30	12	3	PHY1100
27	HMO3301	<i>Physical Meteorology</i>	4	40	16	4	HMO3204
28	HMO3302	<i>Meteorological Instrumentation and Observations</i>	3	30	12	3	PHY1100
29	HMO3303	<i>Dynamic Meteorology 1</i>	3	30	12	3	HMO3204
30	HMO3304	<i>Dynamic Meteorology 2</i>	3	30	12	3	HMO3303
31	HMO3305	<i>Synoptic Meteorology 1</i>	3	30	12	3	HMO3303
32	HMO3306	<i>Synoptic Meteorology 2</i>	3	30	12	3	HMO3305
33	HMO3307	<i>Numerical Weather Prediction</i>	3	30	12	3	HMO3304
34	HMO3308	<i>Radar and Satellite Meteorology</i>	3	30	12	3	HMO3301
35	HMO2110	<i>Statistics in Meteorology</i>	4	45	12	3	MAT1101
36	HMO3311	<i>Climatology and Climate of Vietnam</i>	5	50	20	5	HMO3305
37	HMO3325	<i>Meteorological Observation Practicum</i>	3		30	15	HMO3302

No.	Code	Subject	Credits	Credit hours			Prerequisite
				Lecture	Practice	Self-study	
38	HMO3326	<i>Operational forecast practicum</i>	3		30	15	HMO3306
39	HMO3327	<i>Directed research 1</i>	3		6	39	HMO3306
V.2		<i>Elective</i>	15/38				
40	HMO3310	<i>Oceanology and Ocean-Atmosphere Interaction</i>	3	30	12	3	HMO2202
41	HMO3312	<i>Tropical Meteorology</i>	3	30	12	3	HMO3306
42	HMO3313	<i>Boundary Layer Meteorology</i>	3	30	12	3	HMO3303
43	HMO3315	<i>Physics of Climate</i>	3	30	12	3	HMO3303
44	HMO3319	<i>Computer Application in Meteorology</i>	3	9	33	3	HMO3307
45	HMO3321	<i>Weather Forecasting Practicum</i>	3	9	33	3	HMO3306
46	HMO3322	<i>Climate Variability and Climate Change</i>	3	30	12	3	HMO3311
47	HMO3323	<i>Climate System Modeling</i>	3	27	15	3	HMO3311
48	HMO3205	<i>Fundamentals of Climate Change</i>	3	30	12	3	HMO3311
49	HMO3600	<i>General oceanography</i>	3	30	12	3	
50	GEO2317	<i>Geography</i>	5	50	15	10	GEO1050
51	EVS2302	<i>General Environmental Science</i>	3	30	12	3	GEO1050
V.3		<i>Graduation thesis/ subjects replacing thesis</i>	7				
V.3.1		<i>Graduation thesis</i>	7				
52	HMO4070	<i>Graduation Thesis</i>	7				HMO3327
		<i>Subjects replacing thesis</i>	7				
53	HMO4077	<i>Dynamics and Numerical Methods in Weather Forecasting</i>	4	40	16	4	HMO3304
54	HMO3206	<i>Weather and Climate of Vietnam</i>	3	30	12	3	HMO3306
		Total	134				