

**Course Requirement and Curriculum for a Double Major in the
Department of Environmental Engineering, Effective from the 2025-
2026 Academic Year**

Required Course Credits	Elective Course Credits	Total Credits
21	25	46

No	Course Name	Required/Elective	Credits
1	Fluid Mechanics (1)	Required	3
2	Engineering Mechanics	Required	3
3	Environmental Microbiology	Required	3
4	Experiment of Microbiology	Required	1
5	Physical Chemistry	Required	3
6	Hydrology	Required	3
7	Fluid Mechanics Laboratory	Required	1
8	Engineering Statistics	Required	3
9	Air Pollution Control Engineering	Required	3
10	Laboratory of Environmental Analysis (1)	Required	3
11	Water Supply Engineering	Required	3
12	Solid Waste Engineering	Required	3
13	Environmental Management	Required	3
14	Environmental Engineering Capstone	Required	3
15	Introduction to Principles of Environmental Engineering Physics	Compulsory Elective	3
16	Electron and Electrical Engineering	Compulsory Elective	3
17	Biology	Compulsory Elective	3
18	Wastewater Engineering	Compulsory Elective	3
19	Environmental Engineering Design (1)	Compulsory Elective	3
20	Reinforced Concrete	Compulsory Elective	3
21	Climate Change and Sustainable Development	Elective	3
22	Environmental Chemistry	Elective	3
23	Environmental Economics	Elective	3
24	Laboratory of Environmental Analysis (2)	Elective	3
25	Transport of Air Pollution	Elective	3

26	Environmental Toxicology	Elective	3
27	Environmental Engineering Design (2)	Elective	3
28	Hazardous Waste Treatment	Elective	3
29	Ecology	Elective	2

Supplementary note:

Students who pursue a **double major in Environmental Engineering** are required to complete the following, in addition to the minimum graduation credits stipulated by their primary department:

- **21 credits of required core courses** in Environmental Engineering (to be selected from the 38 credits listed above), and
- **25 credits of elective courses**, which must include **at least four compulsory elective courses totaling 12 credits** (to be selected from the 44 credits listed above).