

Environmental Engineering (EVET)

Environmental Engineering Technology (EVET)

Environmental issues affect our health and our communities, as well as the sustainability of future generations and the earth itself. Environmental concerns directly affect the operations of all types of industries, including parks and forest services, transportation, chemical facilities, defense and energy, construction, and, of course, environmental services. Graduates of the Environmental Engineering Technology program enter positions in a wide range of industries, environmental restoration sites, government agencies, laboratories, consulting firms, and conservation districts. All curriculum courses, except cooperative education courses, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).

The Environmental Engineering Technology program is accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone: (410) 347-7700.

Environmental Engineering Technology—Water and Wastewater Major (EVETW)

The Water and Wastewater major emphasizes water and wastewater treatment, and the operation and design of water and wastewater treatment facilities. Courses focus on biological, physical, and chemical treatment processes; collection and distribution systems; calculations for water and wastewater personnel, safety, and statistics; and quality assurance and control.

Graduates of the Environmental Engineering Technology—Water and Wastewater major program work at municipal water and wastewater treatment plants; industrial wastewater treatment facilities; federal, state, and local government agencies; private civil and environmental engineering consulting firms; and water and wastewater analytical labs. All curriculum courses, except cooperative education courses, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).

The Environmental Engineering Technology—Water and Wastewater major is a pathway to the Environmental Engineering Technology degree accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone (410) 347-7700.

Environmental Engineering Technology—Stormwater Management Major (EVETS)

The Environmental Engineering Technology—Stormwater major prepares students to apply emerging technologies related to stormwater control. As water quality regulations become more stringent, environmental engineers must gain knowledge of stormwater management practices, including methods for targeting specific pollutants of concern in order to maximize overall benefits to the watershed of interest. Courses focus on environmental mapping, watershed management, stormwater management technologies, and restoration ecology. The program also stresses effective application of various stormwater management practices.

The Environmental Engineering Technology—Stormwater major is a pathway to the Environmental Engineering Technology degree accredited by the Engineering Technology Accreditation Commission of ABET, 111 Market Place, Suite 1050, Baltimore, MD 21202-4012, phone (410) 347-7700.

Environmental Safety and Security Certificate (EVETSC)

The Environmental Safety and Security Certificate develops skills that are used in fields associated with protecting the nation during natural disaster, war, or terrorist attack. These career areas include disaster preparedness, utilities safety and security, transportation safety and security, law enforcement, and research. Additionally, graduates of this certificate program can help prepare staff members who ensure the safety of personnel in business, government, and educational organizations.

Environmental Engineering Technology (EVET)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Semester 1		Credits
ENG 101	English Composition	3
EVT 105	Environmental Sampling	3
EVS 110	Environmental Science: Conservation and Cleanup	4
CHE 110	Fundamentals of Chemistry	4
MAT 125	Algebra and Trigonometry	4
Semester 2		
MAT 126	Functions and Calculus	4
EVT 150	Environmental Chemistry	3
PHY 151	Physics 1: Algebra and Trigonometry-Based	4

EVT 160	Solid and Hazardous Waste Management	3
EVT 170	Water and Wastewater Treatment and Analysis	4
Semester 3		
XXX XXX	Cooperative Education Elective	2
Semester 4		
ENG 10X	English Composition Elective	3
EVS 120	Environmental Geology	4
EVT 140	Environmental Regulations and Permits	2
EVT 220	Air Pollution Control	3
EVT 230	Treatment Technologies	3
EVT 240	Fluid Mechanics	3
Semester 5		
EVT 292	Full-Time Cooperative Education 2: Environmental Engineering Technology	2
Semester 6		
COMM 110	Public Speaking	3
EVT 155	Site Mapping and GIS	3
EVT 180	Environmental Statistics	2
XXX XXX	Humanities/ Social Sciences Elective 1	3
XXX XXX	Humanities/ Social Sciences Elective 2	3
XXX XXX	Technical Elective	2
Total Credits:		74

Electives

Cooperative Education Elective

Select one of the following:

CIT 190 & EVT 191	Career Preparation: Engineering and Information Technologies and Part-Time Cooperative Education 1: Environmental Engineering Technology
CIT 190 & EVT 291	Career Preparation: Engineering and Information Technologies and Full-Time Cooperative Education 1: Environmental Engineering Technology

English Composition Elective

ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3

Humanities/Social Sciences Electives

Any ART, CRJ, CULT, ECO, FRN, GEO, HST, LIT, MUS, PHI, POL, PSY, REL, SOC, SPN, THE

Technical Elective

Any CET, CMT, EVS, EVT, LH, or other courses approved by Program Chair

Environmental Engineering Technology—Water and Wastewater Major (EVETW)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Semester 1		Credits
ENG 101	English Composition	3
EVT 105	Environmental Sampling	3
EVS 110	Environmental Science: Conservation and Cleanup	4

CHE 110	Fundamentals of Chemistry	4
MAT 125	Algebra and Trigonometry	4
Semester 2		
MAT 126	Functions and Calculus	4
EVT 150	Environmental Chemistry	3
PHY 151	Physics 1: Algebra and Trigonometry-Based	4
EVT 16X Calculations for Operators Elective		3
EVT 170	Water and Wastewater Treatment and Analysis	4
Semester 3		
XXX XXX Cooperative Education Elective		2
Semester 4		
ENG 10X English Composition Elective		3
EVT 140	Environmental Regulations and Permits	2
EVT 185	Supervisory Management in Environmental Fields	2
EVT 215	Utilities Safety and Security	2
EVT 230	Treatment Technologies	3
EVT 240	Fluid Mechanics	3
EVT 24X Operations of Treatment Plants Elective		3
Semester 5		
EVT 292	Full-Time Cooperative Education 2: Environmental Engineering Technology	2
Semester 6		
COMM 110	Public Speaking	3
EVT 155	Site Mapping and GIS	3
EVT 180	Environmental Statistics	2
EVT 250	Water Collection and Distribution Systems	3
XXX XXX Humanities/ Social Sciences Elective 1		3
XXX XXX Humanities/ Social Sciences Elective 2		3
Total Credits:		75

Electives

Cooperative Education Elective

Select one of the following:

CIT 190 & EVT 191	Career Preparation: Engineering and Information Technologies and Part-Time Cooperative Education 1: Environmental Engineering Technology
CIT 190 & EVT 291	Career Preparation: Engineering and Information Technologies and Full-Time Cooperative Education 1: Environmental Engineering Technology

English Composition Elective

ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3

Calculations for Operators Elective

EVT 165	Calculations for Water Operators	3
EVT 166	Calculations for Wastewater Operators	3

Operations of Treatment Plants Elective

EVT 245	Operation of Water Treatment Plants	3
EVT 246	Operation of Wastewater Treatment Plants	3

Humanities/Social Sciences Electives

Any ART, CRJ, CULT, ECO, FRN, GEO, HST, LIT, MUS, PHI, POL, PSY, REL, SOC, SPN, THE

Environmental Engineering Technology—Stormwater Management Major (EVETS)

All degree-seeking students must complete a First Year Experience (FYE) course as part of the first 12 credit hours taken at Cincinnati State.

Semester 1		Credits
ENG 101	English Composition	3
EVT 105	Environmental Sampling	3
EVS 110	Environmental Science: Conservation and Cleanup	4
CHE 110	Fundamentals of Chemistry	4
MAT 125	Algebra and Trigonometry	4
Semester 2		
MAT 126	Functions and Calculus	4
EVT 150	Environmental Chemistry	3
PHY 151	Physics 1: Algebra and Trigonometry-Based	4
EVT 170	Water and Wastewater Treatment and Analysis	4
EVT 175	Watershed Management	3
Semester 3		
EVT 155	Site Mapping and GIS	3
XXX XXX	Cooperative Education Elective	2
Semester 4		
ENG 10X English Composition Elective		3
EVS 120	Environmental Geology	4
EVT 140	Environmental Regulations and Permits	2
EVT 225	Environmental Mapping	3
EVT 240	Fluid Mechanics	3
XXX XXX Technical Elective		2
Semester 5		
EVT 292	Full-Time Cooperative Education 2: Environmental Engineering Technology	2
Semester 6		
COMM 110	Public Speaking	3
EVT 235	Stormwater Management	3
EVT 255	Stormwater Control Technologies	3
XXX XXX Humanities/ Social Sciences Elective 1		3
XXX XXX Humanities/ Social Sciences Elective 2		3
Total Credits:		75

Electives**Cooperative Education Elective**

Select one of the following:

CIT 190 & EVT 191	Career Preparation: Engineering and Information Technologies and Part-Time Cooperative Education 1: Environmental Engineering Technology
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CIT 190 & EVT 291	Career Preparation: Engineering and Information Technologies and Full-Time Cooperative Education 1: Environmental Engineering Technology	
English Composition Elective		
ENG 102	Composition and Argument	3
ENG 103	Composition and Literature	3
ENG 104	Composition and Technical Communication	3
ENG 105	Composition and Business Communication	3
Technical Elective		
Any EVT, EVS, CIT, LH, or other course approved by Program Chair		
Humanities/Social Sciences Electives		
Any ART, CRJ, CULT, ECO, FRN, GEO, HST, LIT, MUS, PHI, POL, PSY, REL, SOC, SPN, THE		

Environmental Safety and Security Certificate (EVETSC)

EVT 105	Environmental Sampling	3
EVT 160	Solid and Hazardous Waste Management	3
EVT 170	Water and Wastewater Treatment and Analysis	4
EVT 187	Materials Transportation Safety and Security	2
EVT 215	Utilities Safety and Security	2
EVT 220	Air Pollution Control	3
EVT 237	Environmental Impact of Weapons of Mass Destruction	2
EVT 247	Advanced Sampling and Analysis	2
EVT 257	Environmental Risk Assessment	2
Total Credits		23