

# Environmental Engineering Technology - Water and Wastewater Major (EVTW)

## Environmental Engineering Technology—Water and Wastewater Major (EVTW)

The Environmental Engineering Technology - 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 earn an Associate of Applied Science degree and are prepared to 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.

Most curriculum courses, not including cooperative education courses, meet Ohio Environmental Protection Agency requirements for license renewal (U.S. EPA External Provider).

For more information, please contact the Center for Innovative Technologies at (513) 569-1743.

To apply for this program at Cincinnati State, visit our Admissions Page (<http://www.cincinnati.edu/academics/admission>)

## Environmental Engineering Technology—Water and Wastewater Major (EVTW)

Semester 1		Lec	Lab	Credits
EVT 105	Environmental Sampling ( B )	2	3	3
EVS 110	Environmental Science: Conservation and Cleanup ( G )	3	2	4
ENG 101	English Composition 1 ( G )	3	0	3
FYE 1XX	First Year Experience Elective ( B )	1	0	1
CHE XXX	Chemistry Elective ( B )	4	0	4
MAT XXX	Mathematics Elective 1 ( G )	4	0	4
Semester 2				
EVT 140	Environmental Regulations and Permits ( T )	1	2	2

EVT 150	Environmental Chemistry ( B )	2	3	3
EVT 170	Water and Wastewater Treatment and Analysis ( T )	3	3	4
MAT XXX	Mathematics Elective 2 ( B )	4	0	4
EVT 16X	Calculations for Operators Elective ( T )	2	2	3
Semester 3				
XXX XXX	Cooperative Education Elective ( T )	1	40	2
Semester 4				
EVT 185	Supervisory Management in Environmental Fields ( T )	1	2	2
EVT 215	Utilities Safety and Security ( T )	1	2	2
EVT 230	Treatment Technologies ( T )	2	2	3
EVT 240	Fluid Mechanics ( T )	3	3	4
EVT 24X	Operations of Treatment Plants Elective ( T )	2	2	3
Semester 5				
EVT 292	Full-Time Cooperative Education 2: Environmental Engineering Technology ( T )	1	40	2
Semester 6				
EVT 155	Site Mapping and GIS ( T )	2	3	3
EVT 250	Water Collection and Distribution Systems ( T )	2	2	3
ENG 10X	English Composition Elective ( G )	3	0	3
XXX XXX	Statistics Elective ( T )	1	2	2
XXX XXX	Arts/ Humanities or Social/ Behavioral Science Elective ( G )	3	0	3
Total Credits:		51	113	67

## Electives

### First Year Experience Elective

FYE 100	College Survival Skills	1
FYE 105	College Success Strategies	2
FYE 110	Community College Experience	3

### Chemistry Elective

CHE 110	Fundamentals of Chemistry	4
CHE 121 & CHE 131	General Chemistry 1 and General Chemistry 1 Lab	5

**Mathematics Electives** 8

Select one of the following series:

MAT 125 & MAT 126	Algebra and Trigonometry and Functions and Calculus	
Or		
MAT 151 & MAT 152	College Algebra and Trigonometry	
Or		
MAT 251 & MAT 252	Calculus 1 and Calculus 2	

**Calculations for Operators Elective**

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

**Cooperative Education Elective** 2

Select one of the following:

CIT 190 & EVT 191	Career Preparation: Engineering and Information Technologies and Part-Time Cooperative Education 1: Environmental Engineering Technology	
EVT 191 & EVT 192	Part-Time Cooperative Education 1: Environmental Engineering Technology and Part-Time Cooperative Education 2: Environmental Engineering Technology	
EVT 291	Full-Time Cooperative Education 1: Environmental Engineering Technology	

**Operations of Treatment Plants Elective**

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

**English Composition Elective**

ENG 102	English Composition 2: Contemporary Issues	3
ENG 103	English Composition 2: Writing about Literature	3
ENG 104	English Composition 2: Technical Communication	3
ENG 105	English Composition 2: Business Communication	3

**Statistics Elective**

EVT 180	Environmental Statistics	2
MAT 131	Statistics 1	3

**Arts/Humanities Elective or Social/Behavioral Science  
Elective**

Any ART, CULT, FRN, LIT, MUS, PHI, REL, SPN, THE	3
or, Any CRJ, ECO, GEO, HST, POL, PSY, SOC	3

The letters G, B, and T (displayed after course titles or elective descriptions) identify types of courses required by the Ohio Department of Higher Education as part of an associate's degree curriculum.

G = General Education course in this curriculum

B = Basic Skills course in this curriculum

T = Technical course in this curriculum

**Faculty****Program Chair/Advisor**

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**Co-op Coordinators**

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