

Fort Scott Community College

Program of Study

Environmental Technologies

Associate of Applied Science

FSCC is one of the few institutions, and the only in Kansas, where students may earn a degree to become employed in a variety of environmental water technology fields. Partnerships with the EPA, USDA, and the KDHE have enabled this department to meet the environmental challenges of the future. The FSCC Environmental Technology department provides education to professionals in the water and wastewater industry. In addition to college credit hours FSCC ET teaches Continuing Education Units, CEU's, for the Kansas Department of Health and Education's Certified Water and Wastewater Operators. Education is now available to enable students to gain employment in environmental professions. Students can choose from six different areas of concentration to develop a degree or certificate that will meet their career goals. The program is offered both on- and off-campus to assist in promoting professionalism.

Students seeking the Associates of Applied Science in Environment Technologies will complete three of the areas of concentration and 21 hours of general education.

Areas of Concentration:

I. Water Plant Operation (Water Treatment Plant Operator - WTPO)

EWT 1013 Operation & Maintenance of Water Treatment Plants	3
EWT 1022 Hydraulics WTPO	2
EWT 1032 Laboratory Methods for WTPO	2
EWT 1046 Occupational Experience for WTPO	6

II. Utilities Management

EWT 1053 Utility Organization and Administration	3
EWT 1062 Principles of Utility Financing	2
EWT 1072 Utility Management Skill Development	2
EWT 1086 Occupational Experience - Utilities Management	6

III. Water Distribution System Operation & Maintenance

EWT 1113 Operation & Maintenance of Water Distribution Systems ..	3
EWT 1122 Hydraulics of Water Distribution Systems	2
EWT 1132 Distribution Hydraulic Pumping Control	2
EWT 1146 Occupational Experience for Water Distribution System ..	6

IV. Wastewater Collection System Operation & Maintenance

EWT 1413 Operation & Maintenance of Wastewater Collection Systems	3
EWT 1422 Hydraulics of Collection Systems.....	2
EWT 1432 Collection System Administration.....	2
EWT 1446 Occupational Experience for Wastewater Collection	6

V. Wastewater Plant Operation (WWTPO)

EWT 2013 Operation & Maintenance of Waste Water Plants.....	3
EWT 2022 Physics for WWTPO	2
EWT 2032 Laboratory Methods for WWTPO.....	2
EWT 2046 Occupational Experience for WWTPO.....	6

VI. Utilities Maintenance

EWT 2053 Pump and Pumping Systems.....	3
EWT 2062 General Maintenance Process.....	2
EWT 2072 General Maintenance Theory	2
EWT 2086 Occupational Experience for Maintenance Personnel	6

Note: Students who complete two areas of concentration will receive the Certificate of Environmental Technologies. This will be noted on their transcripts.

General Education courses

ENG 1013	English 101 ▶	3
ENG 1023	English 102 ▶	3
SPE 1093	Public Speaking ▶	3
	Arts & Humanities Elective	3
	General Electives.....	6
	Social Science or Behavior Elective	3
	Total	21

▶ This course is approved by the Kansas Board of Regents for System Wide Transfer among all Kansas public postsecondary institutions offering an equivalent course. Additional courses may also be eligible for transfer. Please visit the FSCC Registrar to learn more.

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Certificate Requirements

Environmental Technologies

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I. Water Plant Operation

EWT 1013	Operation & Maintenance of Water Treatment Plants (WTP)	3
EWT 1022	Hydraulics for WTPO	2
EWT 1032	Laboratory Methods for WTPO	2
EWT 1046	Occupational Experience for WTPO	6

II. Utilities Management

EWT 1053	Utility Organization & Administration	3
EWT 1062	Principles of Utility Financing	2
EWT 1072	Utility Management Skill Development	2
EWT 1086	Occupational Experience - Utilities Management	6

III. Water Distribution System Operation & Maintenance

EWT 1113	Operation & Maintenance of Water Distribution Systems	3
EWT 1122	Hydraulics for Water Distribution Systems	2
EWT 1132	Distribution Hydraulic Pumping Control.....	2
EWT 1146	Occupational Experience for Water Distribution Systems.....	6

IV. Wastewater Collection System Operation & Maintenance

EWT 1413	Operation & Maintenance of Wastewater Collection Systems	3
EWT 1422	Hydraulics of Collection Systems.....	2
EWT 1432	Collection System Administration	2
EWT 1446	Occupational Experience for Wastewater Collection System Operators	6

V. Wastewater Plant Operation

EWT 2013	Operation & Maintenance of Wastewater Plants	3
EWT 2022	Physics for WWTPO.....	2
EWT 2032	Laboratory Methods for WWTPO	2
EWT 2046	Occupational Experience for WWTPO.....	6

VI. Utilities Maintenance

EWT 2053	Pumps and Pumping Systems	3
EWT 2062	General Maintenance Process	2
EWT 2072	General Maintenance Theory	2
EWT 2086	Occupational Experience for Maintenance Personnel	6