EVT 220 Air Pollution Control

Course Description: A course on monitoring permitting and control of air releases. Topics include: air quality management, health and environmental effects, indoor air pollution, pollen and mold counts, control and sampling equipment, stack testing, and data analysis. Students provide transportation to off-campus field trips.

Prerequisites(s): EVT 150 **Corequisite(s):** No corequisite

Lecture Hours: 2	Lab Hours: 3	Credit Hours: 3
Lab Fee: 105	Supplemental Fee: 0	Purpose:
☐ Transfer Assurance Guide Course (TAG)	☐ Transfer Module Course (TM)	
Course Format: Lec/Lab	Grading: A/B/C/D/F/I	
Delivery Method: □ Web □ Hybrid □ Classroom		
Semesters Offered: X Fall □ Spring X Summer		

Course Primary Text:

Title:	Edition:
Author(s):	
Publisher:	

Supplemental Materials:

Course Outcomes:

1	a. An ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities; b. An ability to apply a knowledge of mathematics, science, engineering, and technology to engineering technology problems that require limited application of principles but extensive practical knowledge; c. An ability to conduct standard tests and measurements, and to conduct, analyze, and interpret experiments; d. An ability to function effectively as a member of a technical team; e. An ability to identify, analyze, and solve narrowly defined engineering technology problems;

	f. An ability to apply written, oral, and graphical communication in both technical and non-technical environments; and an ability to identify and use appropriate technical literature; g. An understanding of the need for and an ability to engage in self-directed continuing professional development; h. An understanding of and a commitment to address professional and ethical responsibilities, including a respect for diversity; and i. A commitment to quality, timeliness, and continuous improvement.

Course Topics:

Week 1	Introduction
Week 2	Atmosphere
Week 3	Atmospheric Pollutants
Week 4	Dispersion
Week 5	Atmospheric Effects
Week 6	Health Effects/ Welfare Effects
Week 7	Air Quality Surveillance
Week 8	Regulation and Public Policy
Week 9	Stationary Source Control
Week 10	Indoor Air
Week 11	Mobile Monitoring
Week 12	Stack Testing
Week 13	Sampling
Week 14	Permit Writing/File Review
Week 15	Power Plant Emission Control

Methods of Evaluation/Assessment

X Formative: ☐ Summative

List assessment activities (e.g. quizzes, discussions, essays, research papers, debates, oral presentations, exams):

Test #1	15%
Test #2	20%
Final Exam	25%
Air Pollution Topics	10%
Homework	10%
Lab Reports/Presentation	15%
Attendance/Assignments	5%

Course Keeper: Ann Fallon

Date Completed: 4/11/19