EVT 255 Stormwater Control Technologies

Course Description: A course on best practices in stormwater management including installation, construction, and maintenance. Topics include: NPDES stormwater general permit, stormwater management regulations, stormwater quality practices: porous pavements, subsurface infiltration, bioretention basins, wetlands, soil bioengineering, and cost effectiveness of methods.

Corequisite(s): No corequisite

Prerequisites(s): EVT 175 and EVT 225

Lecture Hours: 2	Lab Hours: 2	Credit Hours: 3
Lab Fee: 70	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	X Hybrid	□ Classroom
Semesters Offered: □ Fall	□ Spring	X Summer

Course Primary Text:

Title: Rainwater and Land Development Ohio's Standards for Stormwater Management Land Development and Urban Stream Protection	Edition: 3rd
Author(s): Ohio Department of Natural Resource Division of Soil and Water Conservation	
Publisher: N/A	

Supplemental Materials:

Handouts

Course Outcomes:

1	An ability to apply the knowledge, techniques, skills, and modern tools of the discipline to narrowly defined engineering technology activities;
2	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;
3	An ability to function effectively as a member of a technical team;
4	An ability to identify, analyze, and solve narrowly defined engineering technology problems;
5	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;
6	An understanding of the need for and an ability to engage in self-directed continuing professional development;
7	A commitment to quality, timeliness, and continuous improvement.

Course Topics:

Week 1	Background of Stormwater Management
Week 2	Clean Water Act, MS4, NPDES, Local Stormwater Management
Week 3	Group Project Introduction and Overview
Week 4	Vegetated Roofs, Porous Pavements
Week 5	Bioinfiltration - rain gardens, wetlands, extended detention
Week 6	Other Best Management Practices
Week 7	Hydrology 101, Sizing Best Management Practices
Week 8	Midterm Exam
Week 9	Student Site Assessment Presentations
Week 10	Group Project Work
Week 11	BMP Installation Considerations
Week 12	BMP Design and Construction Lessons Learned
Week 13	Final Exam Presentations

Methods of Evaluation/Assessment

□x Formative: □x Summative

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

Quizzes
Exams
Presentations
Group Project

Course Keeper: Kelly Kuhbander Date Completed: 4/19/19
Reviewed: Ann Gunkel 4/20/19