

Student Outcomes and Performance Indicators – **Faculty Assessment**
 Department of Engineering & Engineering Technology
 College of Professional Studies
 Metropolitan State University of Denver

EVE 4420 (14)

Wetland Studies

Semester/year

Course Category and Related Student Learning Outcomes:

1. distinguish wetlands and understand the variations of definitions used;
2. analyze the global distribution of wetlands and the variations of definitions used;
3. contrast the variations of wetlands topology and the conditions that create each type;
4. explain various functions of wetlands and their utility for humans and the ecosystem;
5. describe general plant, animal, and human adaptations to wetlands;
6. assess anthropocentric impacts on wetlands from agriculture, industry, urbanization, and recreation;
7. discuss the global distribution and severity of wetlands losses;
8. evaluate the effects of political interests on the protection or destruction of wetlands;
9. appraise the various federal laws which now have some impact on wetlands (positive or negative);
10. identify major national and international organizations trying to protect wetlands;
11. evaluate the importance of migratory flight paths and the protection of wetlands along routes;
12. describe "created" wetlands and what uses to which they can be put;
13. criticize methods of wetlands restoration and list the basic steps that would be included ; and
14. analyze and relate the current problems in Everglades National Park to land uses and public policy

ABET	Competency Area	Data Collection
c	an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability	
d	an ability to function on multidisciplinary teams	
j	a knowledge of contemporary issues	

ADDITIONAL COMMENTS:

PLEASE:

1. MAKE SURE ALL REFERENCES ARE IN Y DRIVE;
2. SAVE THIS FILE UNDER THE COURSE NUMBER, FOR EXAMPLE: CET1000 SPRING 2018.DOC;
3. SEND YOUR REPORT TO LINDA;

<Name>

<Date>

Following tables define the Performance Indicators for each of the Student Outcomes a through k

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ABET c: an ability to design a system, component, or process to meet desired needs within realistic constraints such as economic, environmental, social, political, ethical, health and safety, manufacturability, and sustainability				
	Unsatisfactory	Developing	Satisfactory	Exemplary
Establish criteria for engineering technology design problems	Unable to develop or understand design criteria	Understand the design criteria but unable to develop	Understand and developed some criteria in assigned problem	Proper solutions obtained
Develop designs of products, systems, or processes that respond to authentic needs	Unaware of or not understanding the needs	Knowledge or skill set not enough for solving the engineering technology problem	70% partial solution or better	Proper solutions obtained
Take into account the social, economic, or environmental constraints on the design	Unaware of the impacts the issues	Some awareness, but not clear	Understand the issues but unable to incorporate into the design problem	Proper considerations discussed and planned ahead

ABET d: an ability to function on multidisciplinary teams				
	Unsatisfactory	Developing	Satisfactory	Exemplary
Fulfill Team Role's Duties	Does not perform any duties of assigned team role.	Performs very little duties.	Performs nearly all duties.	Performs all duties of assigned team role.
Share in work of team	Always relies on others to do the work.	Rarely does the assigned work-- often needs reminding.	Usually does the assigned work-- rarely needs reminding.	Always does the assigned work without having to be reminded.
Listen to Other Teammates	Is always talking-- never allows anyone else to speak.	Usually doing most of the talking— rarely allows others to speak.	Listens, but sometimes talks too much.	Listens and speaks a fair amount.

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ABET j: a knowledge of contemporary issues				
	Unsatisfactory	Developing	Satisfactory	Exemplary