

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

**EVE 3000 (7)**

**Concepts in Environmental Engineering**

**Semester/year**

Course Category and Related Student Learning Outcomes:

1. Recognize the major regulations used to protect air and water quality.
2. Evaluate the fate of contaminants in natural and engineered environments using mass balances.
3. Utilize simple models (Batch, PFR, CMFR) to describe contaminant fate.
4. Describe appropriate strategies/technologies to produce high quality drinking water.
5. Recommend appropriate strategies/technologies to produce high quality wastewater treatment plant effluents.
6. Relate drinking water and airborne contaminant standards to the protection of health using risk assessment protocols.
7. Describe the indoor, local, regional, and global impacts of air pollution and climate change.

| ABET | Competency Area  | Data Collection |
|------|--|-----------------|
| h    | the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context |                 |
| i    | a recognition of the need for, and an ability to engage in life-long learning  |                 |
| 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 h: the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context |                                   |                               |   |   |
|--|-----------------------------------|-------------------------------|---|---|
|  | Unsatisfactory                    | Developing                    | Satisfactory  | Exemplary   |
| Take into account the social, economic, or environmental constraints on the engineering technology problem solving                                 | 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 |
| Be familiar with national and international research/publications that describe the impact of technology on society                                | Unaware of such ongoing research  | Some understanding            | Understand the impact of technology on society                          | Participating the research and publications       |
|  |                                   |                               |   |   |
|  |                                   |                               |   |   |
|  |                                   |                               |   |   |

| ABET i: a recognition of the need for, and an ability to engage in life-long learning |   |  |                        |   |
|---|---|--|------------------------|---|
|   | Unsatisfactory  | Developing                                     | Satisfactory           | Exemplary   |
| Acknowledge the importance of professional development                                | Unaware of the needs for continuing professional development                | Understand the needs, but show no interests in | Interested             | Actively searching for the opportunities of continuing professional development |
| Participate in continuous education in technical specialty related subjects           | Unaware of continuous education opportunities in related technical subjects | Unable to attend                               | Attending when ordered | Actively participating in continuing educations                                 |
|   |   |  |                        |   |
|   |   |  |                        |   |
|   |   |  |                        |   |

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