

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

CPE 1040 (5)

Introduction to Engineering

Semester/year

Course Category and Related Student Learning Outcomes:

1. Describe concepts of social and political effects of Electrical Engineering, Civil Engineering and Mechanical Engineering on society.
 - a. Social
 - b. Cultural
 - c. Ethical
 - d. Environmental
2. Analyze, interpret and present engineering data using spreadsheets, graphs and computer software.
 - a. Effective use of traditional and electronic reference sources
 - b. Apply math and logic to engineering related problems
3. Describe the relationship between applied engineering and research in Natural Science fields.
4. Describe and relate historical achievements in civil, electrical and mechanical engineering
 - a. Today's life style and issues.
 - b. Social, cultural, ethical, and environmental forces.
5. Define basic civil, electrical and mechanical engineering areas.

ABET	Competency Area	Data Collection
b	an ability to design and conduct experiments, as well as to analyze and interpret data	
f	an understanding of professional and ethical responsibility	
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 b: an ability to design and conduct experiments, as well as to analyze and interpret data				
	Unsatisfactory	Developing	Satisfactory	Exemplary
Select, set up, and use equipment for experiments	Unable to identify proper equipment	Unable to use most of the identified equipment	Able to use the equipment under supervision	Conduct test and measurement properly and safely
Select, set up, and use data collection and analysis software	Not understanding the needs of data collection	Unable to use most of the identified software	Able to use the software under supervision	Properly use of the identified software
Understand the results	Not understanding the results	Some understanding of the results	Understand the results with help	Properly interpret and present the results

ABET f: (f) an understanding of professional and ethical responsibility				
	Unsatisfactory	Developing	Satisfactory	Exemplary
Know the code of ethics for the related profession	Unaware of the code of conduct in profession	In progress of learning	Understand	Apply properly
Demonstrate positive attitude towards others	Show no respect to others	Understanding the importance of proper professional conduct	Proper professional conduct	Demonstrate positive attitude towards others
Show awareness for diverse ideas and cultural differences	Unaware of diversity and cultural differences	Learning in progress such as taking MC courses	Successfully completed some MC and diversity related courses	Fully aware and respectable for diversity and cultural differences

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