

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

**CET 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
e	an ability to function effectively as a member or leader on a technical team	
g	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	

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;

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 <Name>

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 <Date>

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

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ABET e: an ability to function effectively as a member or leader on a technical team				
	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.

ABET g: 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				
	Unsatisfactory	Developing	Satisfactory	Exemplary
Use proper format and grammar in written and oral communications	Unaware of the need of communications in engineering technology practice	Unable to use format and grammar for effective communication	Able to communicate in technical environment	Present properly to both non-technical and technical audience
Use appropriate graphics in oral and written presentations	No understanding of importance of graphics	Unable to produce all graphics needed	Some applications of graphics in presentation	Presentation with proper graphical aids
Paraphrase technical and non-technical literature satisfactorily	Unaware of the need in technical literature	Unable to identify and research for proper literature	Some literature research	Present properly to both non-technical and technical audience