

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

SSE 1040

Life Cycle and Systems Engineering - An Introduction

Semester/year

Course Category and Related Student Learning Outcomes:

1. Recall the definition of a system and a life cycle
2. Define a system and its components
 - a. Identify modern societal systems, both renewable and non-renewable
 - b. Recognize, formulate and predict system behavior to optimize decision-making at the project level
3. Employ Life Cycle Analysis techniques to determine project outcomes
4. Examine system computer models
5. Demonstrate understanding of impacts from engineering solutions for systems in economic, environmental, and societal domains

ABET	Competency Area	Data Collection
f	an understanding of professional and ethical responsibility	
h	the broad education necessary to understand the impact of engineering solutions in a global, economic, environmental, and societal context	
i	an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity	

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 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

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

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ABET i: an understanding of and a commitment to address professional and ethical responsibilities including a respect for diversity				
	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