TAFTCOLLEGE

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Semester effective: Spring 2019

Energy Technology (ENER) 2900 Energy Technology Capstone (3 Units) CSU

Prerequisite: Completion or current enrollment in all other required courses in the Energy Technology program.

Advisory: Eligibility for English 1000, Reading 1005, and Mathematics 1050 is strongly recommended.

Hours and Unit Calculations:
48 hours lecture. 96 outside of class hours. (144 Total Student Learning Hours) 3 Units.

Catalog Description: This course is designed to be the culminating project specific to a program of study. Professional and employment related situations will be explored through a combination of simulations, case studies, scenarios, individual research papers, projects, portfolios and presentations necessary for twenty-first century success. Selection of a project will be based on need and/or interest related to the discipline. Not open to students with credit in MGMT 1560.

Type of Class/Course: Degree Credit

Text:
Robbins, Stephen P., and Timothy J. Judge. *Essentials of Organizational Behavior,* 14th ed., Pearson, 2017.

Course Objectives:

By the end of this course, a successful student will be able to

1. perform management assessment of energy-related scenarios and case studies,
2. apply business and legal reasoning to energy-related events, environmental situations, plant performance evaluations, and research,
3. synthesize theory and facts into action plans,
4. design and create possible effective management solutions to scenarios and cases,
5. propose and defend a solution,
6. integrate social knowledge with personal and interpersonal skills to effect change,
7. demonstrate the ability to research current energy and environmental issues and provide an analysis of theories and concepts involved in them, and
8. present a formal report and multi-media production detailing a problem, its dimensions, possible solutions, rationales for them, recommendation, rationales for it, and an evaluation plan for an energy-related operation or facility.

Course Scope and Content:

Unit I Project

A. Research
B. Study
C. Design
D. Development
E. Presentation
F. Formal Report

Learning Activities Required Outside of Class:

The students in this class will spend a minimum of 6 hours per week outside of the regular class time doing any of the following:

1. Crafting an appropriate bibliography to support the project
2. Reading the required text and other background materials for class
3. Answering questions
4. Studying class materials and notes
5. Performing literature searches
6. Problem solving activities and exercises
7. Preparing projects
8. Working on group exercises

Method of Instruction:

1. Orientation sessions with instructor
2. Lecture and discussion
3. Group activities
4. Role-playing and practice exercises
5. Demonstrations

Methods of Evaluation:

1. Written assignments

2. Participation
   a. Role-playing and group activities
   b. Oral presentations and demonstrations
   c. Discussion responses
   d. Scenario reflections

3. Projects
   a. Multimedia presentations
   b. Business scenario responses
   c. Formal written reports
   d. Portfolio

TOP Code:	0946.10: Energy Systems Technology
SAM Priority Code:	B: Advanced Occupational

TAFTCOLLEGE

Distance Education:	Not Applicable
Funding Agency:	Y: Not Applicable(funds not used)
Program Status:	1: Program Applicable
Noncredit Category:	Y: Not Applicable, Credit Course
Special Class Status:	N: Course is not a special class
Basic Skills Status:	N: Course is not a basic skills course
Prior to College Level:	Y: Not applicable
Cooperative Work Experience:	N: Is not part of a cooperative work experience education program
Eligible for Credit by Exam:	NO
Eligible for Pass/No Pass:	NO
Taft College General Education:	NONE
Discipline:	Interdisciplinary Studies