

COURSE SYLLABUS

Course Title:	Special Topic: Intro to Energy Careers	Date submitted:	11/29/18 (AAC: 18-81)	
Department:	STEAM			
Curriculum:	Energy Management Program			
Course Descriptors: Make certain that the course descriptors are consistent with college and Board of Trustees policies, and the current course numbering system.	Course Code: (eg. ACC 101) <table border="1"><tr><td>NRG*298</td></tr></table>	NRG*298	Prerequisites:	
	NRG*298			
	Course Type: <table border="1"><tr><td>L</td></tr></table>	L	None	
	L			
	A: Clinical B: Lab D: Distance Learning I: Individual/Independent L: Lecture N: Internship M: Seminar P: Practicum U: Studio X: Combined Lecture/Lab Y: Combined Lecture/Clinical/Lab Z: Combined Lecture/Studio			
	Elective Type: <table border="1"><tr><td>G</td></tr></table>	G	Corequisites:	
	G			
	AH: Art History E: English FA: Fine Arts FL: Foreign Language G: General HI: History HU: Humanities LAS: Liberal Arts & Sciences M: Math S: Science SS: Social Science	None		
	Credit Hours: <table border="1"><tr><td>3</td></tr></table>			3
	3			
Developmental: (yes/no) <table border="1"><tr><td>No</td></tr></table>	No			
No				
Lecture: <table border="1"><tr><td>3</td></tr></table>	3			
3				
Clinical: <table border="1"><tr><td>0</td></tr></table>	0			
0				
Lab: <table border="1"><tr><td>0</td></tr></table>	0			
0				
Contact Hours:	Studio: <table border="1"><tr><td>0</td></tr></table>	0	Other Requirements:	
0				
Other: <table border="1"><tr><td>0</td></tr></table>	0	None		
0				
TOTAL: <table border="1"><tr><td>3</td></tr></table>	3			
3				
Class Maximum: <table border="1"><tr><td>24</td></tr></table>	24			
24				
Semesters Offered: <table border="1"><tr><td>Fa/Sp</td></tr></table>	Fa/Sp			
Fa/Sp				
Ability Based Education (ABE) Statement	At Tunxis Community College students are assessed on the knowledge and skills they have learned. The faculty identified the General Education Abilities critical to students' success in their professional and personal lives. In every class, students are assessed on course abilities, sometimes program abilities, and, in most classes, at least one General Education Ability. Students will receive an evaluation of the degree to which they have demonstrated or not demonstrated that General Education Ability.			
Catalog Course Description:	Explore current issues surrounding climate change, sustainability and energy. Understand the effects of climate change and opportunities in clean energy and resource conservation as integral parts of society. Students are introduced to career opportunities in energy management, renewable energy, and sustainability.			
Topical Outline: List course content in outline format.	This class follows a Reading/Lecture format. Subject matter experts/guest speakers will be interviewed by the instructor and students. Each learning module will include a focus on career opportunities. The following topics will be covered during the semester: 1: Introduction, Course Overview 2: What is Sustainability? 3: Climate Change 4: Politics, Economics, Population 5: Solutions – Clean Energy and Sustainable Buildings			

	6. The Energy Grid 7: Energy Efficiency, “The First Renewable Energy” 8. Commercial Buildings 9. Sustainable Homes 9: Renewable Energy 10. Emerging Technologies 11. Climate Resiliency 12. Who Pays?
Outcomes: Describe measurable skills or knowledge that students should be able to demonstrate as evidence that they have mastered the course content.	Upon successful completion of this course, the student will be able to do the following: 1. demonstrate an and understanding of, and ability to use critical thinking skills when reading and discussing course readings 2. demonstrate an understanding of key concepts 3. synthesize information and present critical information in writing and in class presentations 4. utilize data to support a written report 5. differentiate and identify various career options in Sustainability <hr/> PROGRAM: <i>(Numbering reflects Program Outcomes as they appear in the college catalog)</i> 5. develop and evaluate inferences and predictions that are based on collected data <hr/> GENERAL EDUCATION: <i>(Numbering reflects General Education Outcomes as they appear in the college catalog)</i> 1. Critical Analysis/ Logical Thinking - Students will be able to organize, interpret, and evaluate evidence and ideas within and across disciplines; draw reasoned inferences and defensible conclusions; and solve problems and make decisions based on analytical processes. <p>Demonstrates: Identifies the issue(s); formulates an argument; explains and analyzes relationships clearly; draws reasonable inferences and conclusions that are logical and defensible; provides support by evaluating credible sources of evidence necessary to justify conclusions.</p> <p>Does Not Demonstrate: Identifies few or no issues; formulates an argument without significant focus; provides an unclear explanation of analysis and relationships; drawing few reasonable inferences and conclusions that are illogical and indefensible; provides little to no support using credible sources of evidence necessary to justify conclusions.</p>
Evaluation: List how the above outcomes will be assessed.	Assessment will be based on the following criteria: 1. Quizzes and Exams 2. Homework - Problem Sets, Short Answer Questions, and Research Problems 3. Class Participation 4. Term Project and/or Final Exam
Instructional Resources: List library (e.g. books, journals, on-line resources), technological (e.g. Smartboard, software), and other resources (e.g. equipment, supplies, facilities) required and desired to teach this course.	Required: [No special facilities are required.] Desired: None
Textbook(s)	Plan B: Mobilizing to Save Civilization, Lester R. Brown Hot, Flat & Crowded, Thomas Friedman earth, Bill McKibben Class Handouts Online readings