

## GRADUATE COUNCIL

### PROPOSAL FOR CHANGE IN EXISTING COURSE/PROGRAM

**ORIGINATING UNIT:**

**TYPE OF ACTION:**

\_\_\_\_\_ Change in existing course

\_\_\_\_X\_\_\_\_ Change in existing program

**TYPE OF CHANGE REQUESTED:**

\_\_\_\_\_ Number

\_\_\_\_\_ Title

\_\_\_\_\_ Description

\_\_\_\_\_ Prerequisite(s)

\_\_\_\_\_ Drop course/program

\_\_\_\_\_ Program Requirements

\_\_\_\_X\_\_\_\_ Other (specify) \_rewrite of program description in Graduate Catalog  
for Ralph Lowe Energy Management  
Program \_\_\_\_\_

**Current CIP Code (programs only):**

**Does the change require a new or change in CIP Code:** \_\_\_\_Yes \_\_x\_\_No

**If yes, what is the proposed new CIP code?** \_\_\_\_\_

\*for reference please visit: <https://nces.ed.gov/ipeds/cipcode/resources.aspx?y=56>

**Semester and Year Change(s) take effect:**

Fall 2020

Is the program already considered TCU STEM?

Does the change include a request to be a TCU STEM program?

Appropriate Computer Abbreviation (30 spaces or less):

DESCRIPTION OF CHANGE – highlight, **bold**, *italics*, or otherwise identify parts that are changed in proposed copy (omit if dropping a course or program):

**Present catalog copy:**

## **RLEMP Graduate Certificate**

### ***Requirements***

The RLEMP graduate certificate requires successful completion of 22 hours of coursework and 18 hours of advanced practicum/professional development, including a Capstone Project and other projects deemed necessary by the Ralph Lowe Energy Management Program. The core classes include a mandatory ethics class and an environmental issues class. Graduate students pursuing this graduate certificate are expected to complete all work within nine months and will be individually advised before registering by the Director of Energy Education.

RLEM 61031 Ethics and Energy and RLEM 61041 Environmental Issues in Energy are required for all students.

Advanced practicum/professional development classes may include field trips, a mentorship/intern program, off-campus classes and a Capstone Project. The RLEMP Capstone Project will be an intensive project unique to each class assigned to the collective cohort in the fall semester, with completion and professional presentations expected before the end of the spring semester. The project will focus on interdisciplinary collaboration, investigative skills, critical thinking and time management on a current issue in the energy industry.

Courses for the graduate certificate may not be taken on a pass/no credit basis.

For more information, contact the RLEMP office at (817)257-7478 or by email at [energymanagementprogram@tcu.edu](mailto:energymanagementprogram@tcu.edu)

**Proposed catalog copy:**

## **RLEMP Graduate Certificate**

### **Degree Requirements**

The Ralph Lowe Energy Management Program (RLEMP) prepares students for careers in the energy industry including oil, natural gas, renewable energy, electricity generation and transmission, banking and financial institutions and energy-focused consulting firms. The curriculum provides a practical learning component through projects developed in conjunction with industry partners who support the program. The curriculum is customized for each student through consultation with the Director of the Ralph Lowe Energy Management Program.

The RLEMP graduate certificate requires successful completion of 22 credit hours of coursework (see Course Requirements below) including two individual projects, a Capstone Project developed by the entire cohort as well as advanced practicum/professional development modules (18 hours). All coursework must be completed in 2 consecutive semesters (Fall and Spring). Students must maintain a 3.0 grade point average (GPA) in all graduate courses in order to remain in the program and receive the Graduate Certificate. Students cannot repeat course work if they make a grade below C in any course.

The two individual projects required in RLEM 60070 are major research projects culminating in presentations to RLEMP faculty and advisors. The RLEMP Capstone Project required in RLEM 60070 is an intensive project unique to each class assigned to the collective cohort in the fall semester, with completion and professional presentations expected before the end of the Spring semester. The projects will focus on interdisciplinary collaboration, investigative skills, critical thinking and time management on current issues in the energy industry.

Advanced practicum/professional development classes may include field trips, a mentorship/intern program and off-campus classes.

To apply for this program, an undergraduate degree is required (all majors are considered) and 3 letters of recommendation. Prospective students will be interviewed by the RLEM admissions committee.

For more information, contact the RLEMP office at 817-257-7478 or by email at [energymanagementprogram@tcu.edu](mailto:energymanagementprogram@tcu.edu)

### **Course Requirements**

#### **Core Classes, Fall Semester (6.5 hours)**

RLEM 61003 Oil & Gas Development (3 credit hours)

RLEM 61031 Ethics and Energy (1 credit hour)

RLEM 60070 Directed Study: Individual & Capstone Projects (2.5 credit hours)

#### **Core Classes, Spring Semester (6.5 hours)**

RLEM 61023 Overview of Petroleum Engineering (3 credit hours)

RLEM 61041 Environmental Issues in Energy (1 credit hour)

RLEM 60070 Directed Study: Individual & Capstone Projects (2.5 credit hours)

Elective courses (9 hours) will be tailored for each student, drawing from the Neeley School of Business, the College of Science & Engineering or other courses approved by the Director of the Ralph Lowe Energy Management Program.

Supporting EVIDENCE OR JUSTIFICATION:

Explain how the change(s) will affect the current outcomes and assessment mechanisms?

**ADDITIONAL RESOURCES REQUIRED:**

Faculty: 0

Space: 0

Equipment: 0

Library: 0

Other: 0

**CHANGE IN TEACHING LOAD:**

Does this change affect any other units of the University? \_\_\_\_ Yes \_\_\_X\_\_\_ No

If yes, submit supporting statement signed by chair of affected unit.

If cross-listed, provide evidence of approval by all curriculum committees appropriate to both the originating and the cross-listed units.

Chair of Originating Unit:

Signature: 

Name: ED IRELAND

Unit: RALPH LOWE ENERGY  
MANAGEMENT PROGRAM