Clackamas Community College

Online Course/Outline Submission System

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Section #1 General Course Information

Department: Energy & Utility Resource Management

Submitter

First Name: John
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Course Prefix and Number: ERM - 203

 # Credits: 4

Contact hours

Lecture (# of hours): 40
Lec/lab (# of hours):
Lab (# of hours):
Total course hours: 40

For each credit, the student will be expected to spend, on average, 3 hours per week in combination of in-class and out-of-class activity.

Course Title: Energy Applications III: Energy Issues

Course Description:

Energy seminar: each student will develop an individual course plan (approved by the instructor) to survey and do original research and interviews, and report on a selected current energy application. The report and verbal presentation is the capstoen of knowledge and skills covered by the ERM series (100 through 200 levels) and will be communicated in a written report (peer reviewed), as well as a formal student presentation to a panel of industory and academic experts. Reports and presentation may define internship projects.

Type of Course: Career Technical Preparatory

Is this class challengeable?

Yes

Can this course be repeated for credit in a degree?

No

Is general education certification being sought at this time?

No

Does this course map to any general education outcome(s)?

No

Is this course part of an AAS or related certificate of completion?

Yes

Name of degree(s) and/or certificate(s): Energy & Utility Resource Management AAS & Certificate

Are there prerequisites to this course?

Yes

Pre-reqs: Pass ERM-202 with a C or better

Have you consulted with the appropriate chair if the pre-req is in another program?

No

Are there corequisites to this course?

No

Are there any requirements or recommendations for students taken this course?

Yes

Recommendations: None

Requirements: Instructor consent

Are there similar courses existing in other programs or disciplines at CCC?

No

Will this class use library resources?

No

Is there any other potential impact on another department?

No

Does this course belong on the Related Instruction list?

No

GRADING METHOD:

A-F or Pass/No Pass

Audit:Yes

When do you plan to offer this course?

✓ **Spring**

Is this course equivalent to another?

If yes, they must have the same description and outcomes.

No

Will this course appear in the college catalog?

Yes

Will this course appear in the schedule?

Yes

Student Learning Outcomes:

Upon successful completion of this course, students should be able to:

1. identify and utilize various research tools,
2. perform original research and discuss with/interview industry experts,
3. identify topics and questions that would contribute to resolving current and future energy resource issues,
4. develop and present a report on a selected topic or question involving northwest energy issues,
5. explore legal, regulatory and environmental issues for utility projects;
6. understand critical issues in energy and resouce management industries,
7. develop several alternative career paths into the energy and resource management industries.

This course does not include assessable General Education outcomes.

Major Topic Outline:

1. Research tools and strategies.
2. Current and future local and global energy resource issues.
3. Technology and practices relating to energy production, distribution and use.
4. Role of public and private energy generation and distribution.
5. Costs, benefits, and barriers of public and alternative energy production.
6. Areas for further exploration and experience.
7. Interviewing industry experts on chosen topic of report.

Does the content of this class relate to job skills in any of the following areas:

1. Increased energy efficiency	**No**
2. Produce renewable energy	**No**
3. Prevent environmental degradation	**No**
4. Clean up natural environment	**No**
5. Supports green services	**No**

Percent of course:0%

First term to be offered:

Next available term after approval
: