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# Course Proposals

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List of all proposals

Course Name: Renewable Energy

Course Prefix: EET

Course Number: 3100

Submitted by: Fred Chiou, [fredchiou@weber.edu](mailto:fredchiou@weber.edu)

Current Date: 10/22/2014 College: Applied Science & Technology

Department: Engineering Technology

From Term: Spring 2015

Substantive

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new

Current Course Subject: N/A

Current Course Number:

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## New/Revised Course Information:

Subject: EET

Course Number: 3100

Check all that apply:

This is for courses already approved for gen ed. Use a [different form](#)

(<http://documents.weber.edu/catalog/forms.htm>) for proposing a new gen ed designation.

DV    CA    HU    LS    PS    SS    EN    AI    QL    TA    TB    TC    TD

TE

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Course Title: Renewable Energy

Abbreviated Course Title: Renewable Energy

Course Type: LEC

Credit Hours: 3

or if variable hours: to

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Contact Hours:

Lecture: 2

Lab: 1

Other:

Repeat Information:

Limit: 0

Max Hrs: 0

Grading Mode: standard

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This course is/will be:

- a required course in a major program
  - a required course in a minor program
  - a required course in a 1- or 2- year program
  - elective
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Prerequisites/Co-requisites:

EET 1110 or EET 1850

Course description (exactly as it will appear in the catalog, including prerequisites):

The purpose of the EET 3100 Renewable Energy course is for each student to learn the fundamental knowledge and technology of various types of renewable energy including solar energy, wind power, hydroelectric, geothermal energy, biomass and ocean energy. This course discusses the limitations and the impacts of using fossil fuel energy and its possible impact on global climate change. This course will enable students to build an essential foundation towards the specific applications of renewable energy such as solar PV (Photovoltaic) systems, wind turbine systems and micro-hydro systems. Incentives, rebates and policies from federal, state and local power companies will also be addressed in the class. The students will learn how to acquire professional certifications if they are interested in developing a career in the area of renewable energy.

Justification for the new course or for changes to an existing course. (Note: Justification should emphasize academic rationale for the change or new course. This is particularly important for courses

requesting upper-division status.)

The renewable energy course will be very beneficial to the students. The demand for renewable energy is growing, and the technology of renewable energy has improved in recent years.

In this course, students will develop a stronger awareness of the energy shortage. They will also learn the knowledge and technology that may be helpful to their career development in the industry of renewable energy.

The benefits of creating this new course:

- The course would provide an opportunity to offer a technical elective course which is currently missing from the EET program.
- Students have shown interest in this subject area. The course was offered as an experimental course Fall 2014 Semester and the enrollment in the class exceeded expectations.
- Industry demand is high for individuals with professional certifications and credentials in renewable energy. Institutional (Weber) grants and funding possibilities include funding awarded through RSPG, Dee Family Technology, DOE and the Office of Undergraduate Research. We are also working closely with the Energy and Sustainability Office at WSU on campus wide projects involving renewable energy.
- This course has the potential for university emphasis on renewable energy coursework.

## INFORMATION PAGE for substantive proposals only

1. Did this course receive unanimous approval within the Department?

true

If not, what are the major concerns raised by the opponents?

2. If this is a new course proposal, could you achieve the desired results by revising an existing course within your department or by requiring an existing course in another department?

No. It is a new technology and new material.

3. How will the proposed course differ from similar offerings by other departments? Comment on any subject overlap between this course and topics generally taught by other departments, even if no similar courses are currently offered by the other departments. Explain any effects that this proposal will have on program requirements or enrollments in other department. Please forward letters (email communication is sufficient) from all departments that you have identified above stating their support

or opposition to the proposed course.  
No similar course in Weber State.

4. Is this course required for certification/accreditation of a program?  
no

If so, a statement to that effect should appear in the justification and supporting documents should accompany this form.

5. For course proposals, e-mail a syllabus to [Faculty Senate \(mailto:kbrown4@weber.edu\)](mailto:kbrown4@weber.edu) which should be sufficiently detailed that the committees can determine that the course is at the appropriate level and matches the description. There should be an indication of the amount and type of outside activity required in the course (projects, research papers, homework, etc.).

Please mail a signed approval page (SignaturePage.PDF) to the Faculty Senate Office, MA 210J, MC 1033.