

ECE 2194.01 (Proposed): Sustainable Energy and Society

Course Description

Explores how energy is created and used in today's society. Discusses wind, solar, coal, nuclear, geothermal, sustainability, etc. Intended for non-engineers but engineering students welcome.

Prior Course Number: 294.05

Transcript Abbreviation: Group Studies ECE

Grading Plan: Letter Grade

Course Deliveries: 100% at a distance

Course Levels: Undergrad

Student Ranks: Freshman, Sophomore

Course Offerings: Spring

Flex Scheduled Course: Never

Course Frequency: Every Year

Course Length: 14 Week

Credits: 2.0

Repeatable: No

Time Distribution: 2.0 hr Lec

Expected out-of-class hours per week: 4.0

Graded Component: Lecture

Credit by Examination: No

Admission Condition: No

Off Campus: Never

Campus Locations: Columbus

Prerequisites and Co-requisites: Prerequisite: Math 1148 (104) or higher

Exclusions: Not open to students with credit for 294.05 (Au11)

Cross-Listings:

Course Rationale: Existing course.

The course is required for this unit's degrees, majors, and/or minors: No

The course is a GEC: No

The course is an elective (for this or other units) or is a service course for other units: Yes

Subject/CIP Code: 14.1001

Subsidy Level: Baccalaureate Course

Course Goals

Learn capabilities and limitations of various energy sources
Learn how energy is used around the world today
Develop critical thinking skills
Learn to estimate orders of magnitude
Learn how to participate knowledgeably in the ongoing energy debate

Course Topics

Topic	Lec	Rec	Lab	Cli	IS	Sem	FE	Wor
Introduction and Motivation	1.0							
Introduction to power systems	1.0							