

# Sustainable Energy (SERG)

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## Sustainable Energy (SERG) Courses

### **SERG 5001 [0.5 credit]**

#### **Sustainable Energy Policy for Engineers**

This course introduces engineering students to the policy world by examining political and policy institutions, and covering basic principles of policy analysis, as they relate to the energy realm.

### **SERG 5002 [0.5 credit]**

#### **Sustainable Energy Engineering for Policy Students**

This course introduces policy students to fundamental principles of engineering, particularly as they relate to energy production, transformation and consumption.

### **SERG 5003 [0.5 credit]**

#### **Energy Evaluation and Assessment Tools**

Introduction to principles and tools for financial and performance analysis of energy projects, systems and technologies, and their application. Topics may include: probability theory, regression analysis, cost-benefit analysis, life cycle analysis, carbon accounting and emissions modeling, and other techniques particular to the energy field.

### **SERG 5004 [1.0 credit]**

#### **Applied Interdisciplinary Project**

Application of assessment tools, energy evaluation methods, engineering, economics and policy studies to actual sustainable energy projects.

Includes: Experiential Learning Activity

Precludes additional credit for SERG 5000 (no longer offered).

Prerequisite(s): SERG 5003 and one of SERG 5001 or SERG 5002.

### **SERG 5005 [0.5 credit]**

#### **Applied Interdisciplinary Project**

Application of assessment tools, energy evaluation methods, engineering, economics and policy studies to actual sustainable energy projects.

Includes: Experiential Learning Activity

Precludes additional credit for SERG 5004.

Prerequisite(s): SERG 5003 and one of SERG 5001 or SERG 5002.

### **SERG 5800 [0.0 credit]**

#### **Sustainable Energy Seminar**

A series of seminars presented by researchers and practitioners in the area of sustainable energy. To complete this course, a student must attend at least ten seminars during their program.

### **SERG 5906 [0.5 credit]**

#### **Directed Studies in Sustainable Energy**

A directed course on selected subjects related to sustainable energy as approved by a course supervisor.

### **SERG 5909 [2.0 credits]**

#### **MA Sustainable Energy Thesis**

Includes: Experiential Learning Activity

### **SERG 5913 [0.0 credit]**

#### **Co-operative Work term**

Includes: Experiential Learning Activity