



Central
North
South
SVI

SBST421 - Energy Policy

Document Type: District Master Course Outline

Proposal Type: New Course

Requester(s): David Krull

College: South

Origination Approved: 02/27/2014 - 1:51 PM

BASIC INFORMATION

Requester(s): David Krull

College: South Seattle Community College

Division/Dept: Professional Technical

Dean: Holly Moore

COURSE INFORMATION

Proposed Course Number:

Prefix: **SBST**

Number: **421**

Request a new Prefix

This will be a common course

Full Title: Energy Policy

Abbreviated Title: Energy Policy

Catalog Course Description:

Provides an overview of energy policy.

Course Length: 11 Weeks

Request an Exception

Course Prerequisite(s):

Student must be enrolled in the BAS Sustainable Building Science Technology program or have instructor approval and have taken Utility Rates.

Topical Outline:

1. Overview of federal, regional, state and local energy policy (3)
2. Federal institutions that impact policy—DOE, FERC, EPA, DOA (3)
3. Federal laws that impact policy—PURPA, NAECA, En Policy Acts, etc. (3)
4. BPA—a federal, regional institution: history, WPSS, Power Act (3)
5. Northwest Power and Conservation Council and Regional Technical Forum (2)
6. Regional power plans-#6 and #7 in process (2)
7. State utility regulation (2)
8. Washington State Initiative 937 and utility energy efficiency acquisition (2)
9. The Washington State Building Codes Council and State Energy Code (2)
10. Local interests and local issues (1)
11. Nongovernmental organizations (NGOs) that impact energy policy (1)
12. Issues that drive policy, and the risks created by policy conflict (3)
13. Examples of conflicts resolved by lawsuits with long-term implications (2)
14. Class presentations of research assignments on policy (4)

COURSE CODING

Funding Source: 1.....State
Institutional Intent: 21.....Vocational Preparatory

This Course is a requirement for the following program(s):

(No Programs Selected)

My Course Proposal is a requirement for a program not on this list
Program Title/Description/Notes:
BAS Sustainable Building Science Technology program

Will this course transfer to a 4-year university? **No**
Is this course designed for Limited English Proficiency? **No**
Is this course designed for Academic Disadvantaged? **No**
Does this course have a Workplace Training component? **Yes**

CIP Code: 03.0198 Request Specific CIP Code
EPC Code: 177 Request Specific EPC Code

Credits:
Will this course be offered as Variable Credit? **No**

List Course Contact Hours	
Lecture (11 Contact Hours : 1 Credit)	33
Lab (22 Contact Hours : 1 Credit)	0
Clinical Work (33 Contact Hours : 1 Credit)	0
Other (55 Contact Hours : 1 Credit)	0
Total Contact Hours	33
Total Credits	3

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation: Fall 2014 Request Provisional Exception

Class Capacity: 25

Modes of Delivery: (Check all that apply)

- Fully On Campus
- Fully Online
- Hybrid
- Other Explanation:

Class Schedule Description:

Provides an overview of energy policy.

Student Learning Outcomes:

Communication

Read and listen actively to learn and communicate

Speak and write effectively for academic, and career purposes

Computation

Use arithmetic and other basic mathematical operations as required by program of study

Apply quantitative skills for academic, and career purposes

Human Relations

Use social interactive skills to work in groups effectively

Have knowledge of the diverse cultures represented in our multicultural society

Critical Thinking and Problem-Solving

Think critically in evaluating information, solving problems, and making decisions

Technology

Select and use appropriate technological tools for academic, and career tasks

Personal Responsibility

Uphold the highest standard of academic honesty and integrity

Respect the rights of others in the classroom, online and in all other school activities

Attend class regularly, complete assignments on time and effectively participate in classroom and online discussions, group work and other class-related projects and activities

Abide by appropriate safety rules in laboratories, shops and classroom

Information Literacy

Independently access, evaluate and select information from a variety of appropriate sources

Have knowledge about legal and ethical issues related to the use of information

Use information effectively and ethically for a specific purpose

Program Outcomes:

1. Analysis – analyze, define and validate systems.
2. Project Management – deliver solutions from analysis.
3. Communications – utilize effective communication techniques to facilitate all aspects of sustainable building management.
4. Leadership – develop and lead a team of various personalities and skills.
5. Critical thinking – identify, analyze and solve problems.
6. Business skills – understand accounting, budgeting, real cost, cost effectiveness and life-cycle cost.
7. Social value, ethics and need – create and maintain a professional environment based on values and ethics.

Course Outcomes / Objectives:

At the end of the course the student will:

1. Understand the context in which decisions are made that impact energy prices, energy use, and facility design and operation.
2. Understand basic energy policy formation at the federal, regional and state and local levels and impact on energy use and cost.
3. Understand the institutions and laws that shape energy policy at all levels.
4. Understand the major issues that drive policy.
5. Understand Energy subsidies and incentives.
6. Understand the major current energy policy conflicts and the risks they create.
7. Understand technical and financial impacts of energy policy.

Explain the student demand for the course and potential enrollment:

Course required for BAS Sustainable Building Science Technology program. All students will be enrolling in the course as a cohort. Course to be offered one time per academic year.

Explain why this course is being created:

- Employer demand
- Student demand
- Options for place-bound students

The SBST BAS degree program will address a critical gap in the current education system that has developed as this industry has evolved over the past five to 10 years. Traditional engineering, construction and architectural studies focus on the design of new buildings, rather than the complex and sophisticated systems that enable newly designed and retrofitted buildings to function. Individuals previously trained as facility managers do not have the level of expertise or systems knowledge to support these highly technical operations. Therefore, businesses are hiring engineers and spending months and even years retraining them to work in this capacity. Frequently these individuals do not want this type of work and leave when other more suitable opportunities present themselves. Individuals who choose to pursue a degree in the field of Sustainable Building Science Technology will not only have the specialized skills they need; they will be more stable employees.

This is to certify that the above criteria have all been met and all statements are accurate to the best of my knowledge.

Faculty involved in originating this program:

David Krull
Print Name

David Krull
Signature

1/1/0001
Date

Dean:

Holly Moore
Print Name

Holly Moore
Signature

11/25/2013
Date

Results of SSCC Curriculum Coordinating Council Findings

Participating Faculty Response and Remarks

- Recommended for approval
- Not recommended for approval
- This course has not yet reached Committee Review

Chairman, Curriculum Coordinating Council:

Print Name

Signature

Date

Vice President for Instruction:

Gary L Oertli
Print Name

Gary L Oertli
Signature

2/27/2014
Date