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, NAECAT, 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)
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.
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:

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>David Krull</td>
<td>David Krull</td>
<td>1/1/0001</td>
</tr>
</tbody>
</table>

Dean:

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Holly Moore</td>
<td>Holly Moore</td>
<td>11/25/2013</td>
</tr>
</tbody>
</table>

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:

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
</table>

Vice President for Instruction:

<table>
<thead>
<tr>
<th>Print Name</th>
<th>Signature</th>
<th>Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gary L. Oertli</td>
<td>Gary L. Oertli</td>
<td>2/27/2014</td>
</tr>
</tbody>
</table>