SBST321 - Building Codes in Washington State

Document Type: District Master Course Outline
Proposal Type: New Course
Requester(s): David Krull Lauren Hadley
College: South
Origination Approved: 02/27/2014 - 1:45 PM

BASIC INFORMATION

Requester(s): David Krull Lauren Hadley
College: South Seattle Community College
Division/Dept: Professional Technical
Dean: Holly Moore

COURSE INFORMATION

Proposed Course Number:
Prefix: SBST Number: 321

☐ Request a new Prefix
☐ This will be a common course

Full Title: Building Codes in Washington State
Abbreviated Title: Bldg Codes in WA State

Catalog Course Description:
Provides an overview of building components

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 Building Science and Building Components and Systems.

Topical Outline:

1. History of building codes (include PNW & State) (2)
2. Scope of building codes (structural, electrical, plumbing, etc.) (2)
3. Code development & adoption of codes used in Washington State (2)
4. International Codes Council and Washington State (1)
5. Jurisdiction for code adoption and enforcement in Washington State (1)
6. Enforcement options and perspective of enforcement agencies (1)
7. Building structures—code, requirements & compliance methods (2)
8. Glazing systems—code, requirements & compliance methods (1)
9. Mechanical systems—code, requirements & compliance methods (2)
10. Plumbing—code, requirements & compliance methods (2)
11. Electrical—code, requirements & compliance methods (2)
12. Fire—code, requirements & compliance methods (2)
13. Appliance efficiency standards—source & relation to Washington code (2)
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
EPC Code: 177

☐ Request Specific CIP Code
☐ Request Specific EPC Code

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

List Course Contact Hours
Lecture (11 Contact Hours : 1 Credit) 22
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 22
Total Credits 2

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation: Fall 2014

Class Capacity: 25

Modes of Delivery: (Check all that apply)
☑ Fully On Campus
☐ Fully Online
☑ Hybrid
☐ Other

Explaination:
Class Schedule Description:
Provides an overview of building components

Student Learning Outcomes:

**Communication**
Read and listen actively to learn and communicate
Speak and write effectively for academic, and career purposes

**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

Program Outcomes:
1. Manage learning environments
2. Develop outcomes, assessments and curricula
3. Provide student instruction
4. Create and maintain a professional environment
5. Learn to adapt new technologies

Course Outcomes / Objectives:
At the end of the course the student will:
1. Understand the history of building codes, the role of interest groups and need for them
2. Understand the family of building codes and the context for building energy codes
3. Be aware of all codes that impact building design, operation and maintenance
4. Be able to identify code issues

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:

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<tbody>
<tr>
<td>David Krull</td>
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<td>Lauren Hadley</td>
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Dean:

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<td>Holly Moore</td>
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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:

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Vice President for Instruction:

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