INT108 - Intro. to Blueprint Reading for Construction

Document Type: District Master Course Outline
Proposal Type: New Course
Requester(s): Karen L Whitney, Holly Moore, Danette Randolph
College: South Seattle Community College
Division/Dept: Apprenticeship-GT Campus
Dean: Holly Moore

Origination Approved: 11/07/2012 - 1:22 PM

BASIC INFORMATION

Requester(s): Karen L Whitney
Holly Moore
Danette Randolph

College: South Seattle Community College
Division/Dept: Apprenticeship-GT Campus
Dean: Holly Moore

COURSE INFORMATION

Proposed Course Number:
Prefix: INT Number: 108

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

Full Title: Intro. to Blueprint Reading for Construction
Abbreviated Title: Intro Blueprint Reading

Catalog Course Description:
This is an introductory course designed to prepare students to identify, read and interpret construction drawings. The course will be delivered from an applied perspective with an emphasis on understanding the processes involved in construction and interpreting them from drawings.

Course Length: 11 Weeks
☐ Request an Exception

Topical Outline:

**Topical Outline:**

Drawing Types – An Overview

1. Overview of the construction industry and the context of where and how plans are used.
2. Blue Print Components
3. Types of Drawings
4. Interpret Elements of Blueprint Drawings
5. Abbreviations, Symbols and Hatchings
6. Foundations – Types
7. Exterior Finishes
8. Interior Finishes
9. Detailed Drawing
   a. Section Details
   b. Isometric drawings depicting details

10. Reading Site Plans

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

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? ☐ No

CIP Code: 47.0303 ☐ Request Specific CIP Code
EPC Code: 768 ☐ 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) 22
Clinical Work (33 Contact Hours : 1 Credit) 0
Other (55 Contact Hours : 1 Credit) 0

Total Contact Hours 44
Total Credits 3

COLLEGE SUPPLEMENTAL

Proposed Quarter of Implementation: Winter 2013 ☐ Request Provisional Exception

Class Capacity: 20
Modes of Delivery: (Check all that apply)
- [x] Fully On Campus
- [ ] Fully Online
- [ ] Hybrid
- [ ] Other  Explanation:

Class Schedule Description:
This is an introductory course designed to prepare students to identify, read and interpret construction drawings. The course will be delivered from an applied perspective with an emphasis on understanding the processes involved in construction and interpreting them from drawings.

Student Learning Outcomes:

Communication
Read and listen actively to learn and communicate
  Describe and utilize manufacturing techniques, tools and safety practices

Computation
Use arithmetic and other basic mathematical operations as required by program of study
  Identify notes and dimensions on blueprints

Human Relations
Use social interactive skills to work in groups effectively
  Interpret symbols and abbreviations found on drawings

Critical Thinking and Problem-Solving
Think critically in evaluating information, solving problems, and making decisions
  Visualize three-dimensional objects while viewing two-dimensional drawings.

Technology
Select and use appropriate technological tools for personal, academic, and career tasks
  Perform layouts based on information interpreted from the drawings

Information Literacy
Use information to achieve personal, academic, and career goals, as well as to participate in a democratic society
  Identify notes and dimensions on blueprints to successfully complete objectives

Program Outcomes:

PROGRAM OUTCOMES

At the end of the program the graduates will:

- Describe and utilize manufacturing techniques, tools and safety practices.

(SLO 1, 2, 3, 4, 5, 7)
• Apply the concepts of diversified manufacturing, CPR, First AID and Electronics to promote quality and safe production and designs. (SLO 1,2,3,4,7)

• Employ the appropriate actions regarding workplace culture, safety and industry standards; (SLO 3, 6)

• Evaluate one’s own capabilities and limitations, identify individual needs of continued growth is able to seek consultation from superiors. (SLO 3, 6)

• Communicate effectively and appropriately in the workplace. (SLO 1, 3, 4, 6)

• Practice within the standards established by the profession, and identify the parameters of accountability. (SLO 2, 4, 5, 6, 7)

Course Outcomes/Objectives:

**Objectives:**

1. Read and interpret constructions drawings and site plans
2. Identify the components of a blueprint
3. Identify notes and dimensions on blueprints
4. Interpret symbols and abbreviations found on drawings
5. Interpret drawing elements regarding layout plan, production and inspection
6. Perform layouts based on information interpreted from the drawings
7. Visualize three-dimensional objects while viewing two-dimensional drawings.

Explain the student demand for the course and potential enrollment:

This course is part of the required curriculum for the Industrial Manufacturing Basics Short-Term Training Certificate

Explain why this course is being created:

This course is part of the required curriculum for the Industrial Manufacturing Basics Short-Term Training Certificate

What challenges, if any, do you foresee in offering this course:

None foreseen at this time
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>Holly Moore</td>
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<td>Danette Randolph</td>
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Dean:

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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 did not go through Committee Review

Chairman, Curriculum Coordinating Council:

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Vice President for Instruction:

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<tr>
<td>Donna Miller-Parker</td>
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