MASTER SYLLABUS
WELD 103 – BLUEPRINT READING

Created by: Cullen Haskins – 10/22/2020

Updated by:
A. **TITLE**: Blueprint Reading

B. **COURSE NUMBER**: WELD 103

C. **CREDIT HOURS (Hours of Lecture, Laboratory, Recitation, Tutorial, Activity)**:

   # Credit Hours: 3
   
   # Lecture Hours per Week: 3
   
   # Lab Hours per Week: 0
   
   Other per Week: 0

   Course Length (# of Weeks): 15

D. **WRITING INTENSIVE COURSE**: No

E. **GER CATEGORY**: N/A

F. **SEMESTER(S) OFFERED**: Fall

G. **COURSE DESCRIPTION**:

   In this course, students learn the technical skills required for blueprint reading. This includes the interpretation of trade drawings and welding symbols, and the application of those skills to practical situations.

H. **PRE-REQUISITES/CO-REQUISITES**:

   a. Pre-requisite(s): None
   
   b. Co-requisite(s): None
   
   c. Pre- or co-requisite(s): None
### I. STUDENT LEARNING OUTCOMES:

<table>
<thead>
<tr>
<th>Course Student Learning Outcome [SLO]</th>
<th>PSLO</th>
<th>GER</th>
<th>ISLO</th>
</tr>
</thead>
<tbody>
<tr>
<td>a. Interpret trade drawings to determine shape and size of sub-components in welded assemblies.</td>
<td>1.</td>
<td></td>
<td>1W</td>
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<tr>
<td>b. Interpret trade drawings to determine location, type, and application of welds.</td>
<td>1.</td>
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<td>1W</td>
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### KEY

<table>
<thead>
<tr>
<th>ISLO #</th>
<th>Institutional Student Learning Outcomes [ISLO 1 – 5]</th>
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<tbody>
<tr>
<td>1</td>
<td>Communication Skills</td>
</tr>
<tr>
<td></td>
<td>Oral [O], Written [W]</td>
</tr>
<tr>
<td>2</td>
<td>Critical Thinking</td>
</tr>
<tr>
<td></td>
<td>Critical Analysis [CA], Inquiry &amp; Analysis [IA],</td>
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<td></td>
<td>Problem Solving [PS]</td>
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<tr>
<td>3</td>
<td>Foundational Skills</td>
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<tr>
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<td>Information Management [IM], Quantitative Lit./Reasoning [QTR]</td>
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<td>4</td>
<td>Social Responsibility</td>
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<td></td>
<td>Ethical Reasoning [ER], Global Learning [GL],</td>
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<td></td>
<td>Intercultural Knowledge [IK], Teamwork [T]</td>
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</table>
J. **APPLIED LEARNING COMPONENT:** Yes___X____ No____

If Yes, select one or more of the following categories:

- Classroom/Lab __X__
- Internship____
- Clinical Practicum____
- Practicum____
- Service Learning____
- Community Service____
- Civic Engagement____
- Creative Works/Senior Project____
- Research____
- Entrepreneurship____
- (program, class, project)
K. **TEXTS:**


L. **REFERENCES:** N/A

M. **EQUIPMENT:** N/A

N. **GRADING METHOD:** A-F

O. **SUGGESTED MEASUREMENT CRITERIA/METHODS:**

- Homework
- Quizzes
- Tests/Practicum

P. **DETAILED COURSE OUTLINE:**

1. Introduction to Print Reading
2. Types of Lines
3. Basic Drawing Views
4. Dimensions
5. Notes and Specifications
6. Materials
7. Weld Joints
8. Weld Types
9. Introduction to Welding Symbols
10. Advanced Welding Symbols
11. Additional Views
12. Drawing Standards
13. Additional Drawing Concepts
14. Review Exercises

Q. **LABORATORY OUTLINE:** N/A