STATE UNIVERSITY OF NEW YORK

COLLEGE OF TECHNOLOGY

CANTON, NEW YORK

MASTER SYLLABUS
WELD 103 – BLUEPRINT READING

Created by: Cullen Haskins – 10/22/2020

Updated by:

CANINO SCHOOL OF ENGINEERING TECHNOLOGY

MECHANICAL ENGINEERING TECNOLOGY

FALL 2020

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:

Course Student Learning Outcome [SLO]	***PSLO***	***GER***	***ISLO***
a. Interpret trade drawings to determine shape and size of sub-components in welded assemblies.	1.		1W
b. Interpret trade drawings to determine location, type, and application of welds.	1.		1W

KEY	**Institutional Student Learning Outcomes [ISLO 1 – 5]**
ISLO #	**ISLO & Subsets**
1	**Communication Skills** Oral [O], Written [W]
2	**Critical Thinking** *Critical Analysis [CA] , Inquiry & Analysis [IA] , Problem Solving [PS]*
3	**Foundational Skills** *Information Management [IM], Quantitative Lit,/Reasoning [QTR]*
4	**Social Responsibility** *Ethical Reasoning [ER], Global Learning [GL], Intercultural Knowledge [IK], Teamwork [T]*

5	**Industry, Professional, Discipline Specific Knowledge and Skills**

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:

"Print Reading for Welders and Fabrication" 2nd edition, ISBN-13: 9780133803891

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