COMMON COURSE OUTLINE: Course discipline/number/title: BU 1510: Welding Theory and Safety

A. CATALOG DESCRIPTION
1. Credits: 1
2. Hours/Week: 1 lecture
3. Prerequisites (Course discipline/number): None
4. Corequisites (Course discipline/number): None
5. MnTC Goals (if any): NA

This course covers actual use of arc, gas, and M.I.G., T.I.G. welding along with proper safety and equipment care. RECOMMENDED SKILLS/KNOWLEDGE: Basic technical skills/knowledge: High School Diploma or GED.

B. DATE LAST REVISED (Month, year): November, 2012

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Welding Safety
2. Weld Joints
3. Basic Welding Theory
4. Explain safe practices, quality, PPE (personal protections equipment) and unsafe conditions.

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Identify various welding electrodes
2. Explain Weld joints
3. Explain GTAW systems
4. Explain GMAW systems
5. Explain oxy-acetylene systems
6. Explain weld safety

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:
1. Daily Lab Assignments
2. Midterm Exam
3. Final Exam

G. RCTC CORE OUTCOME(S) ADDRESSED:
- Communication
- Critical Thinking
- Global Awareness/Diversity
- Civic Responsibility
- Personal/Professional Accountability
- Aesthetic Response

H. SPECIAL INFORMATION (if any): None