COMMON COURSE OUTLINE: Course discipline/number/title: BU 2506: Basic Refrigeration

A. CATALOG DESCRIPTION
1. Credits: 3
2. Hours/Week: 6
3. Prerequisites (if any): BU 2500
4. Co-requisites (if any): None
5. MnTC Goals (if any): NA

This course covers lab experiences working with tools, tubing, incompressors, refrigerant controls, refrigerant, and testlinequipment. Recommended Entry Skills/Knowledge: High School Diploma or GED.

B. DATE LAST REVISED (use current date): April, 1997

C. OUTLINE OF MAJOR CONTENT AREAS:
1. Work with tubing.
2. Disassemble and assemble compressors.
3. Operate refrigeration systems.

D. LEARNING OUTCOMES (GENERAL): The student will be able to:
1. Demonstrate lab safety.
2. Perform temperature and pressure measurements.
3. Cut tubing.
4. Fit tubing.
5. Make complete tubing assembly.
6. Test complete tubing assembly.
7. Demonstrate safety when handling tools and supplies.
8. Use gauge manifold.
9. Operate an elementary refrigerator.
10. Detect refrigeration leaks.
11. Operate cap tube system.
12. Test cap tube system.
13. Operate thermostatic expansion valve system.
14. Test thermostatic expansion valve system.
15. Disassemble a reciprocating compressor.

E. LEARNING OUTCOMES (MNTC): NA

F. METHODS FOR EVALUATION OF STUDENT LEARNING:

G. SPECIAL INFORMATION (if any): None