

# Minnesota State College Southeast

## BIRT 1125: Brasswind Repair I

### A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 2

Lab Hours/Week: 6

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course parallels topics and tasks learned in BIRT1110, adding solder projects, complete instrument repair, introduction to trombone handslide repairs and trumpet playing methods. Machine tool operation, aspects of a safe work environment as well as instrument inspection, repair and invoicing are also included. Grading is based on project evaluation and written tests. (Prerequisite: BIRT1110 or field experience commensurate with course content as determined by instructor) (5 Credits: 2 lecture/3 lab)

**B. COURSE EFFECTIVE DATES:** 02/21/2001 - Present

### C. OUTLINE OF MAJOR CONTENT AREAS

1. Applying common brass instrument maintenance
2. Applying common brass instrument repairs
3. Parts manufacture
4. Tool manufacture

### D. LEARNING OUTCOMES (General)

1. Using the trumpet as focus, the student will learn:
  - a. Shop safety
  - b. Evaluation of instruments for repair
  - c. Loosening/pulling stuck parts
  - d. Common mouthpiece repairs
  - e. Construction of sub-assemblies such as mouthpipes with receivers and outer tubes
  - f. Installation (alignment, jiggling and soldering) of sub-assemblies
  - g. Polishing, degreasing and spot-finishing techniques
2. By making tools and parts using bench motors, sanders, grinders and metal lathes the student will learn
  - a. Lathe set up and basic operation
  - b. Machine safety
  - c. Application of machine functions to repair processes
3. By completing projects on time, following BIR rules and policies regarding tardiness, absences, quiz/exam make-up, by using tools and facilities appropriately and safely, and by interacting with instructors and peers professionally, the student will learn
  - a. Employer expectations related to day-to-day operations
  - b. How to succeed on a bench test
  - c. How to advance in the work place

### E. Minnesota Transfer Curriculum Goal Area(s) and Competencies

None

**F. LEARNER OUTCOMES ASSESSMENT**

As noted on course syllabus

**G. SPECIAL INFORMATION**

None noted