

# Minnesota State College Southeast

## **BIRT 1104: Woodwind Repair I**

### **A. COURSE DESCRIPTION**

Credits: 4

Lecture Hours/Week: 2

Lab Hours/Week: 4

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

The student will build on previous skills learned in diagnosing and repairing basic problems associated with woodwind instruments. Techniques of disassembly, tenon fitting, head corking, key fitting, padding, key corking, regulation as well as play testing the instrument will be covered. In addition, nomenclature, care of metal and finishes, body straightening, key alignment, spring replacement, and soft soldering will be taught. As a project for the course, the student will perform a complete repad on a flute including record keeping and invoicing requirements. It is recommended that the student have playing skills on the instrument prior to enrolling, as a playing proficiency is required for completion of the course. Grading is based on project evaluation and written tests. (Prerequisite: BIRT1100 or field experience commensurate with course content as determined by instructor) (4 Credits: 2 lecture/2 lab)

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

### **C. OUTLINE OF MAJOR CONTENT AREAS**

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

### **D. LEARNING OUTCOMES (General)**

1. Using the clarinet and flute as a focus, the student will learn
  - a. Shop safety
  - b. Evaluation of instruments for repair
  - c. Body preparation and dent work
  - d. Identify body composition types
  - e. Identify metals and platings
  - f. Alignment and straightening
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