

# Minnesota State College Southeast

## **BIRT 2100: Woodwind Repair II**

### **A. COURSE DESCRIPTION**

Credits: 5

Lecture Hours/Week: 2

Lab Hours/Week: 6

OJT Hours/Week: \*.\*

Prerequisites: None

Corequisites: None

MnTC Goals: None

Using the saxophone as the focus, the student will learn techniques of disassembly and assembly, neck corking, tenon fitting, key fitting, hinge rod making, key corking, padding, regulation, lubrication, and play testing the instrument. Body straightening tone hole leveling, post and key alignment, soft and silver soldering will also be included. It is recommended that the student have playing skills on the instrument prior to enrolling, as a playing proficiency is required for completion of this course. As a project for the course, the student will perform a complete repad on the saxophone including record keeping and invoicing requirements. Grading is based on project evaluation and written tests. (Prerequisites: BIRT1100 and BIRT1104 or field experience commensurate with course content as determined by instructor) (5 Credits: 2 lecture/3 lab)

**B. COURSE EFFECTIVE DATES:** 09/29/1998 - Present

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

1. Applying common woodwind instrument maintenance
2. Applying common woodwind instrument repairs
  - a. Specific to saxophone
  - b. Specialized skills; body alignment, dent removal, padding techniques and mechanical function
3. Parts manufacture
4. Tool manufacture

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

1. Using the saxophone as focus, the student will learn
  - a. Shop safety
  - b. Evaluation of instruments for repair
  - c. Repad, overhaul, play condition (PC) differences
  - d. Advanced key fitting techniques
  - e. Saxophone mechanical function related to regulation and venting
  - f. Shop operations such as instrument check-in, repair tag writing and invoicing
2. By making tools and parts using bench motors, sanders, grinders and metal lathes the student will learn
  - a. More advanced lathe operation including turning multiple dimensions within one tool/part, cutting off, tool bit honing and grinding
  - 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