

Minnesota State College Southeast

BIRT 1100: Woodwind Repair Fundamentals

A. COURSE DESCRIPTION

Credits: 5

Lecture Hours/Week: 3

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course introduces the student to safe use and handling of shop equipment, tools and supplies. The student will learn to diagnose and repair basic problems associated with woodwind instruments. Techniques of disassembly, tenon corking, key fitting, padding, key corking, regulation as well as play testing the instrument will be covered. In addition, nomenclature, care of wood, crack sealing, key straightening, and spring replacement will be taught. As a project for the course, the student will perform a complete repad on a clarinet 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: None) (5 Credits: 3 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 05/04/1998 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Woodwind instrument nomenclature
2. Woodwind instrument construction
3. Intro to common woodwind instrument maintenance
4. Intro to common woodwind instrument repairs

D. LEARNING OUTCOMES (General)

1. Using the clarinet as a focus, the student will learn
 - a. Shop safety
 - b. Woodwind instrument and band instrument repair tool nomenclature
 - c. Disassembly, assembly and cleaning procedures applying knowledge of materials and finishes
 - d. Key fitting fundamentals
 - e. Padding fundamentals
 - f. Woodwind mechanical function related to regulation and venting
 - g. Shop operations such as instrument check-in, repair tag writing and invoicing
2. 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