

Minnesota State College Southeast

BIRT 2104: Woodwind Repair III

A. COURSE DESCRIPTION

Credits: 4

Lecture Hours/Week: 2

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites: None

Corequisites: None

MnTC Goals: None

This course will involve the study of common aspects of repair as it relates to the oboe and the bassoon. Using the oboe as the project, nomenclature, installation of cork pads, regulation, play testing, and focus on key mechanism interrelationships will be covered. Topics related to wood care, moisture tube removal, and tone hole replacement will be introduced. Bassoon nomenclature as well as padding and regulation techniques will be covered. Wood treatment, sealing, tenon wrapping, and "U" tube gasket replacement will be studied. It is recommended that the student have playing skills on the instruments prior to enrolling. A playing proficiency on oboe is required for completion of the course. Grading is based on project evaluation and written tests. (Prerequisites: BIRT1100, BIRT1104, & BIRT2100 or field experience commensurate with course content as determined by instructor) (4 Credits: 2 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 03/20/2000 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Applying common woodwind instrument maintenance
2. Applying common woodwind instrument repairs
 - a. Specific to double reeds
 - b. Specialized skills; padding techniques and mechanical function
3. Parts manufacture
4. Tool manufacture

D. LEARNING OUTCOMES (General)

1. Using the oboe and bassoon as focus, the student will learn
 - a. Shop safety
 - b. Evaluation of instruments for repair
 - c. Oboe and bassoon mechanical function related to regulation and venting
 - d. Sealing, treating, and care of wood bodies
 - e. Cork padding
 - 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. Machine safety
 - b. 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