

Minnesota State College Southeast

GTRB 2435: Advanced Guitar Finishing

A. COURSE DESCRIPTION

Credits: 3

Lecture Hours/Week: 1

Lab Hours/Week: 4

OJT Hours/Week: *.*

Prerequisites:

This course requires all four of these prerequisites

GTRB 1450 - Introduction to Finishing

GTRB 2425 - Archtop Guitar/Mandolin Construction

GTRB 2415 - Computer Drafting for Guitar

GTRB 2420 - CNC for Guitar

Corequisites: None

MnTC Goals: None

This course covers the use of new technology coatings such as waterborne, two-component and UV conversion finishes. Additional techniques using nitrocellulose lacquer will also be covered. Metallic finishes will also be used for applying gold top and colored metallic finishes. Touch up techniques will be practiced. Final sanding and polishing all types of film finishes will be practiced. Refinishing methods and materials will also be discussed. (Prerequisites: GTRB 1450, GTRB 2415, GTRB 2420, GTRB 2425; Concurrent enrollment in GTRB 2430) (3 credits: 1 lecture/2 lab)

B. COURSE EFFECTIVE DATES: 06/19/2009 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Advanced lacquer finishing
2. Waterborne finishing
3. Two component urethane
4. UV gel fillers
5. UV polyester

D. LEARNING OUTCOMES (General)

1. Expand knowledge and skills using nitrocellulose lacquer for toners, sunbursts and bronzing/metallic finishes.
2. Learn new coating technologies used in the guitar industry.
3. Use two component polyurethane coatings for modern finishing processes.
4. Use UV cured gel pore fillers for use under modern top coats.
5. Use UV cured polyester coatings for modern finishing processes.
6. Perform burn-in and graining techniques for touch up work.
7. Learn air brush touch up techniques used in guitar repair shops.
8. Abrade and polish all varieties of coatings used in the course.

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

None

F. LEARNER OUTCOMES ASSESSMENT

As noted on course syllabus

G. SPECIAL INFORMATION

None noted