GTRB 1441: Acoustic Construction Lecture

A. COURSE DESCRIPTION

Credits: 3
Lecture Hours/Week: 3
Lab Hours/Week: 0
OJT Hours/Week: *.*

Prerequisites:
This course requires all six of these prerequisites
- GTRB 1400 - Introduction to Tools
- GTRB 1405 - Guitar Overview
- GTRB 1410 - Acoustic Guitar Set-up, Lab
- GTRB 1420 - Acoustic Guitar Neck Resets
- GTRB 1425 - Fretwork
- GTRB 1430 - Guitar Acoustics

Corequisites: None
MnTC Goals: None

This course will cover the steps in building a flattop guitar, either steel string or classical. (Prerequisites: GTRB1400, 1405, 1410, 1420, 1425, 1430, and concurrent enrollment in GTRB1445 and GTRB1450) (3 Credits: 3 lecture/0 lab)

B. COURSE EFFECTIVE DATES: 01/21/2021 - Present

C. OUTLINE OF MAJOR CONTENT AREAS

1. Attend all lecture/demonstrations
2. Record instrument specifications
3. Complete problem solving assignments
D. LEARNING OUTCOMES (General)
1. record guitar body specs
2. record bracing design and specs
3. blueprint guitar neck
4. complete written assignments
5. observe template making demonstration
6. observe top and back jointing demonstration
7. observe top thicknessing demonstration
8. observe rosette demonstrations
9. observe top brace preparation demonstration
10. observe x-brace notching demonstration
11. observe top brace gluing demonstration
12. observe brace shaping demonstration
13. layout guitar sides
14. observe side bending demonstration
15. observe head and tail block demonstrations
16. observe dovetail routing demonstrations
17. observe kerfing installation demonstration
18. observe side bracing demonstration
19. observe top gluing demonstration
20. observe back thicknessing demonstration
21. observe back brace arching/gluing form demonstration
22. observe neck blank preparation demonstration
23. determine desired neck angle
24. observe back bracing demonstration
25. observe heel shaping demonstration
26. observe back gluing demonstration
27. observe top/back flush trimming demonstration
28. observe binding and purfling making demonstration
29. observe binding and purfling slot cutting demonstration
30. observe binding and purfling installation demonstration
31. observe neck fitting demonstration
32. observe headstock shaping demonstrations
33. observe headstock thicknessing demonstration
34. observe headcap laminate demonstration
35. observe fingerboard preparation demonstration
36. observe neck gluing demonstration
37. observe fingerboard gluing demonstration
38. observe neck shaping demonstration
39. observe inlay demonstrations
40. observe top thickness adjustment demonstration
41. observe preparation for finishing demonstration
42. determine proper bridge location
43. observe fitting/gluing demonstration bridge
44. evaluate finished guitar
45. describe an alternative method for one of the construction steps

E. Minnesota Transfer Curriculum Goal Area(s) and Competencies
   None

F. LEARNER OUTCOMES ASSESSMENT
   As noted on course syllabus

G. SPECIAL INFORMATION
   None noted