

STUDENT RESPONSIBILITIES:

- Students are expected to commit the required time to complete this course. Requests to reschedule assignments or exams are extraordinary and will only be granted under such circumstances.
- Submitting assigned work on the dates set by the instructor. Late assignments may be penalized.
- Regular attendance is important to success. Lectures contain important information. Safe, accurate and complete shop work is essential for course success.

PROPOSED CONTENT OUTLINE:

- Materials
- Hand Tools
 - Functions
 - Safety
 - Maintenance
- Portable Power Tools
 - Function
 - Safety
 - Maintenance
- Power Tools (Bench)
 - Function
 - Safety
 - Maintenance
- Beekeeping Related Construction
 - Manufacture and Assemble All Parts of a Langstroth Hive
 - Jigs for Specialty Operations.
 - Hive top feeder
 - Frame feeder
 - 5-frame nuc box

Skills

- **Safe use of power tools**
 - Beekeeper's floor/bench tools include
 - Table saw
 - Compound Mitre Saw
 - Radial Arm Saw
 - Drill press
 - Beekeeper's hand tools
 - Skil Saw
 - Jig Saw
 - Router
 - Air Nailers (Framing, Staple, High Crown stapler)
 - Drill
- **Project planning/prototyping**
 - Estimating required materials

- Planning cuts
- Measuring
- Selecting materials
- **Basic Projects**
 - Build and assemble langstroth hives
 - 1 Screened bottom board.
 - 4 supers, w/box join corners (build jig for dovetail joints)
 - 40 frames (build jigs for cutting/assembly)
 - 2 inner cover/wintering boards
 - 1 telescoping hive cover
 - 1 migratory hive cover
 - Take 1 complete hive with telescoping cover home
 - Leave 1 complete hive with migratory lid for college
 - Build bottom board pallets
 - Teams of 3 – 4 to build 1 pallet for demonstration purposes/college apiary
 - Nuc boxes
 - 5/6 frame
 - Nuc pallet
 - To hold 6 6-frame nucs
- **Advanced projects**
 - Grafting stand
 - Pollen trap, front entrance or Langstroth sized
 - Prototype equipment for BRF