Required Materials: safety glasses, tape measure, hearing protection, table saw report spreadsheet, carbide tip handout (photocopied from pp67-68 of Table Saw Magic), dado blade, extra saw blade, sawstop cartridges, 7/64" hex key, table saw, board, featherboard, push stick

Lecture Outline:

1. Table Saw (80 minutes)
    a. Make a rip cut
    b. Functions
        i. Rip cuts – cuts parallel to grain
        ii. Cross cuts – cuts perpendicular to grain
        iii. Bevels – angled rip cuts
    c. Features
        i. Motor
            1. More hp is better
            2. Can be single or 3 phase
        ii. Blade
            1. Specified by blade diameter – 10" standard for theatrical shops
            2. The arbor size is the size of the bolt hole in the middle of the blade
                a. Buy blades to match your saw
            3. Larger dia. Means deeper cuts
            4. More teeth cleaner cut
            5. Less teeth faster cut
            6. Tilt
            7. Specialty blades
                a. Veneer
                b. Dado
            8. Special
                a. Brake – different cartridge for dado
        iii. Fence
            1. Determines capacity of saw – since we are usually working with 4x8 materials, it is best to get at least 48" of capacity
        iv. Blade guard
            1. Different styles limit the saw in different ways – table mount versus overhead
            2. Riving knife/splitter guard
            3. Anti-kickback pawls
        v. Throat plate
            1. Different plate required for Dado or small cuts (zero clearance)
        vi. Dust collection
        vii. Outfeed table
    d. Accessories

   i. Miter guage
   ii. Push stick
   iii. Featherboard
e. Maintenance
   i. Checking for parallel
   ii. Maintaining fence scale
   iii. Checking for perpendicular
   iv. Maintaining bevel scale
   v. Clean and wax table