**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)
	1. Make a rip cut
	2. Functions
		1. Rip cuts – cuts parallel to grain
		2. Cross cuts – cuts perpendicular to grain
		3. Bevels – angled rip cuts
	3. Features
		1. Motor
			1. More hp is better
			2. Can be single or 3 phase
		2. 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
				1. 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
				1. Veneer
				2. Dado
			8. Special
				1. Brake – different cartridge for dado
		3. Fence
			1. Determines capacity of saw – since we are usually working with 4x8 materials, it is best to get at least 48” of capacity
		4. Blade guard
			1. Different styles limit the saw in different ways – table mount versus overhead
			2. Riving knife/splitter guard
			3. Anti-kickback pawls
		5. Throat plate
			1. Different plate required for Dado or small cuts (zero clearance)
		6. Dust collection
		7. Outfeed table
	4. Accessories
		1. Miter guage
		2. Push stick
		3. Featherboard
	5. Maintenance
		1. Checking for parallel
		2. Maintaining fence scale
		3. Checking for perpendicular
		4. Maintaining bevel scale
		5. Clean and wax table