AND ASSEMBLING YOUR JOINTS:

~ YOUR GRADE WILL BE DETERMINED BY YOUR OVERALL ACCURACY IN CUTTING.
~ ALL WORK MUST BE DONE DURING REGULAR CLASS TIME OR BY APPOINTMENT.
~ PROJECTS ARE DUE BY THE END OF CLASS ON 12/11 (OR 12/12). NO EXCEPTIONS!

~ ALL JOINTS SHOULD BE FASTENED WITH CLUE AND STAPLES WHERE APPROPRIATE.
~ BUILD A SAMPLE OF THE 5 JOINTS SHOWN.

Joint Project

Half Lap

Rabbet Box

Box
Joint Project Instructions

Box Joint
1. Cut two pieces of 1x3 to the appropriate length. Remember to account for the thickness of the lumber.
2. Apply wood glue to the end or face of the cut lumber. Assemble the two pieces using 2, 1½” narrow crown staples or 2, 8d common nails.

Rabbet Box Joint
1. Cut two pieces of 1x3 to the appropriate length. Remember to account for the thickness of the lumber.
2. Cut a rabbet in the face of one piece using either the table saw or the radial arm saw. The depth of the rabbet should be half the thickness of the lumber.
3. Apply wood glue to the inside face of the rabbet. Assemble the two pieces using 2, 1” narrow crown staples or 2, 4d common or finish nails.

Half Lap Joint
1. Cut two pieces of 1x3 to the appropriate length.
2. Adjust the depth of cut on the table saw or radial arm saw to half the thickness of the lumber.
3. Test this depth on two scrap pieces of 1x3 by making a couple of overlapping passes. Place the two pieces on top of each other. If the depth is set correctly, the tops will be perfectly flush. If not, adjust the depth of cut up or down and try again. This step is important! If you are not exactly cutting half the thickness, your joint will not work.
4. Once the depth is set exactly, make repeated passes over the face of the lumber as wide as the 1x3.
5. Assemble the two pieces using wood glue and 5/8” narrow crown staples.

Mitered Joint
1. Cut 45 degree miter in the edge of two boards. DO NOT CUT THEM TO LENGTH YET!
2. After the angles are cut, then measuring from the long side of the angle, cut the pieces to length.
3. Apply wood glue the end of one piece and assemble using 1” narrow crown staples.
Mitered Half Lap Joint

1. Cut two pieces of 1x3 to the appropriate length.
2. On one piece, set up either the table saw or radial arm saw just as you did for the half lap joint
3. Cut a half lap in ONE piece just as in the half lap joint
4. Without changing the depth of cut on the saw, change the angle of cut to 45 degrees. It is VERY important that this is set accurately, use a square.
5. Cut a half lap at this 45 degree angle
6. On the piece from step 3, cut off a section of the half lap at 45 degrees to mirror the angle from step 5.
7. Apply wood glue and assemble using 5/8” narrow crown staples