Lab #4: Individual
Total Hip Arthroplasty
Due: Start of NEXT lab session (1 week)

YOU MUST TAKE PROPER SAFETY PRECAUTIONS (EYE PROTECTION, ETC.) DURING THIS LAB

A) Perform osteotomy
   1. Mount your femur in a bench clamp.
   2. Use the air saw to slice away the top of the femur.
   3. Use hand tools to clear out the marrow cavity.

B) Prepare implant cavity
   1. Mount your femur in your bench clamp.
   2. Use the air mill to mill out a cavity so that your implant fits snugly in the bone.
   3. Install a wood screw into the hole in the top of your implant.
   4. Tap the head of the screw with a hammer to seat the implant in the bone. Be careful not to splinter the bone.
   5. To remove the implant to modify the cavity, pull on the screw with a pair of pliers.
   6. Remove the wood screw from the implant once it is successfully implanted.

C) Repair fractured cavity
   1. If your femur fractured during implantation, use wire to brace the bone.

Deliverables:
   • Your implanted femur (write name & student number on it)