



# Locations

### **Towne 315**

lectures (T 3:00-4:20)

### **Towne 169**

machine shop\* labs (R 10:30, R 1:30, F 11:00, F 1:00)

### Towne 205

door code: 4-2-19 19 CAD stations

### **Towne 193 (GM)**

Prototrak emulators

### **Towne 167**

laser cutting\*

\* = training required

## Resources

### **Textbook**

Machine Elements in Mechanical Design, 4th ed. Robert L. Mott

### **Supplies**

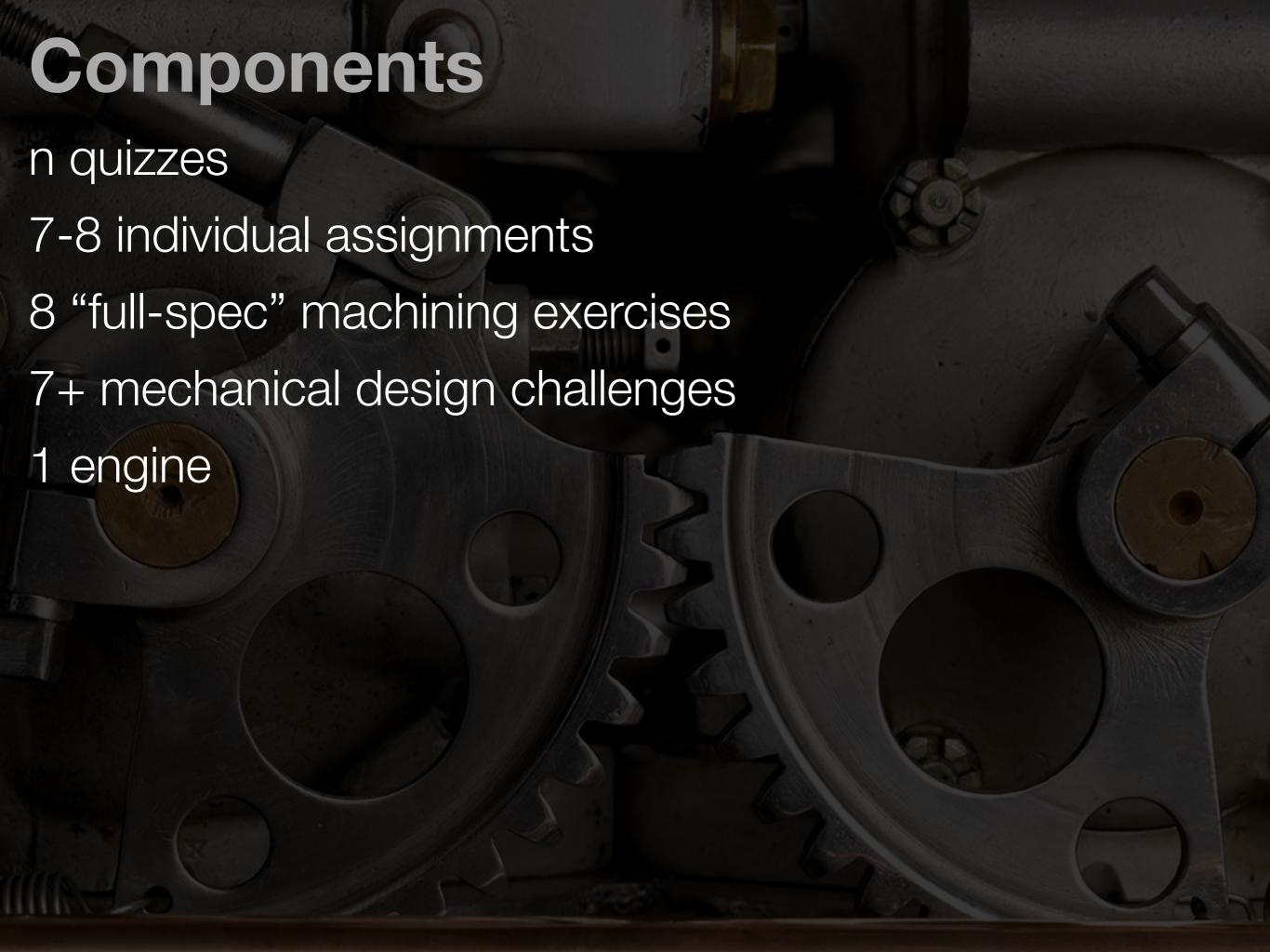
consider purchasing: calipers, safety glasses, smock, hand tools

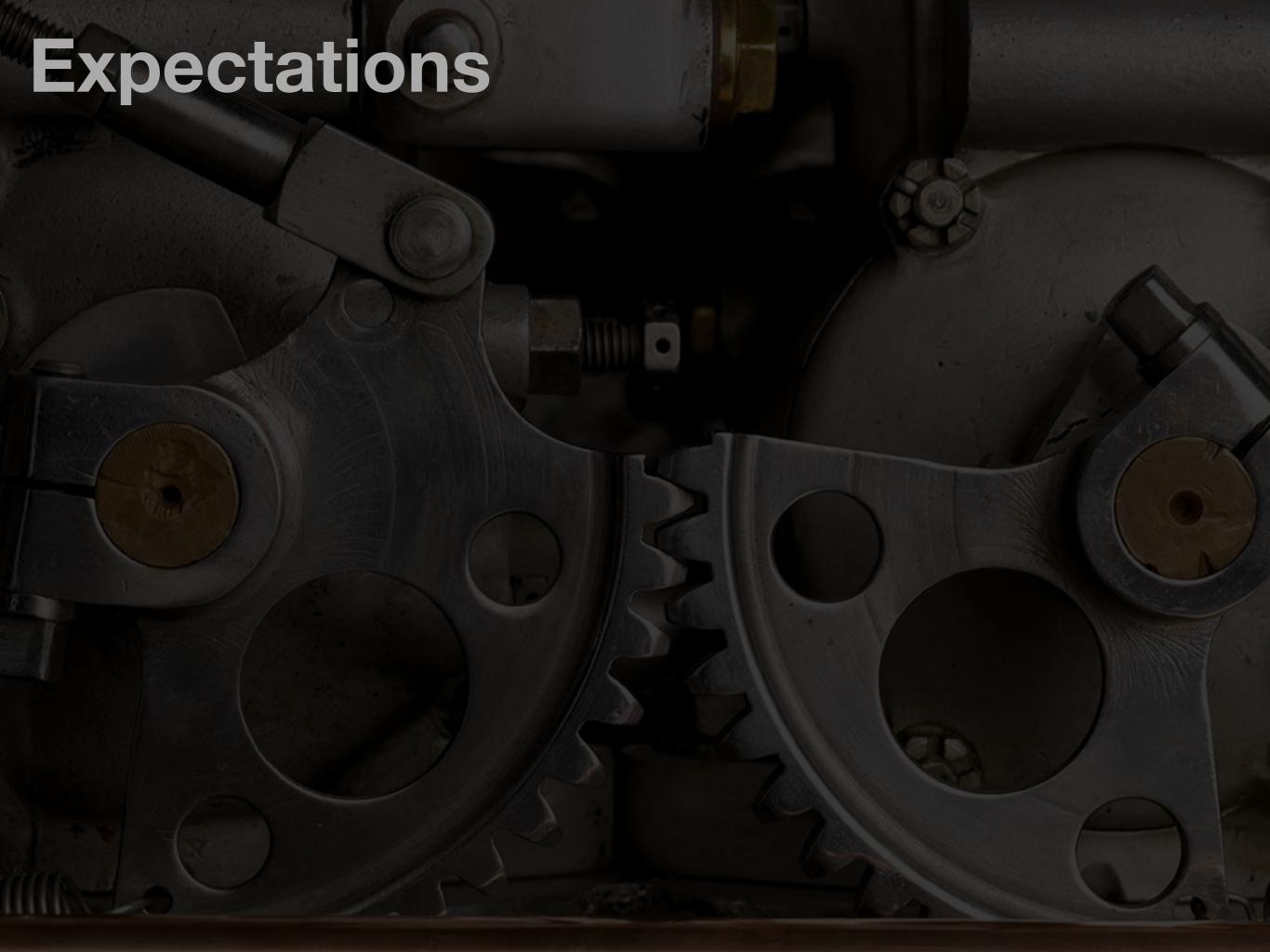
### **Course Wiki**

http://medesign.seas.upenn.edu

### **Staff Email**

meam201staff@lists.seas.upenn.edu

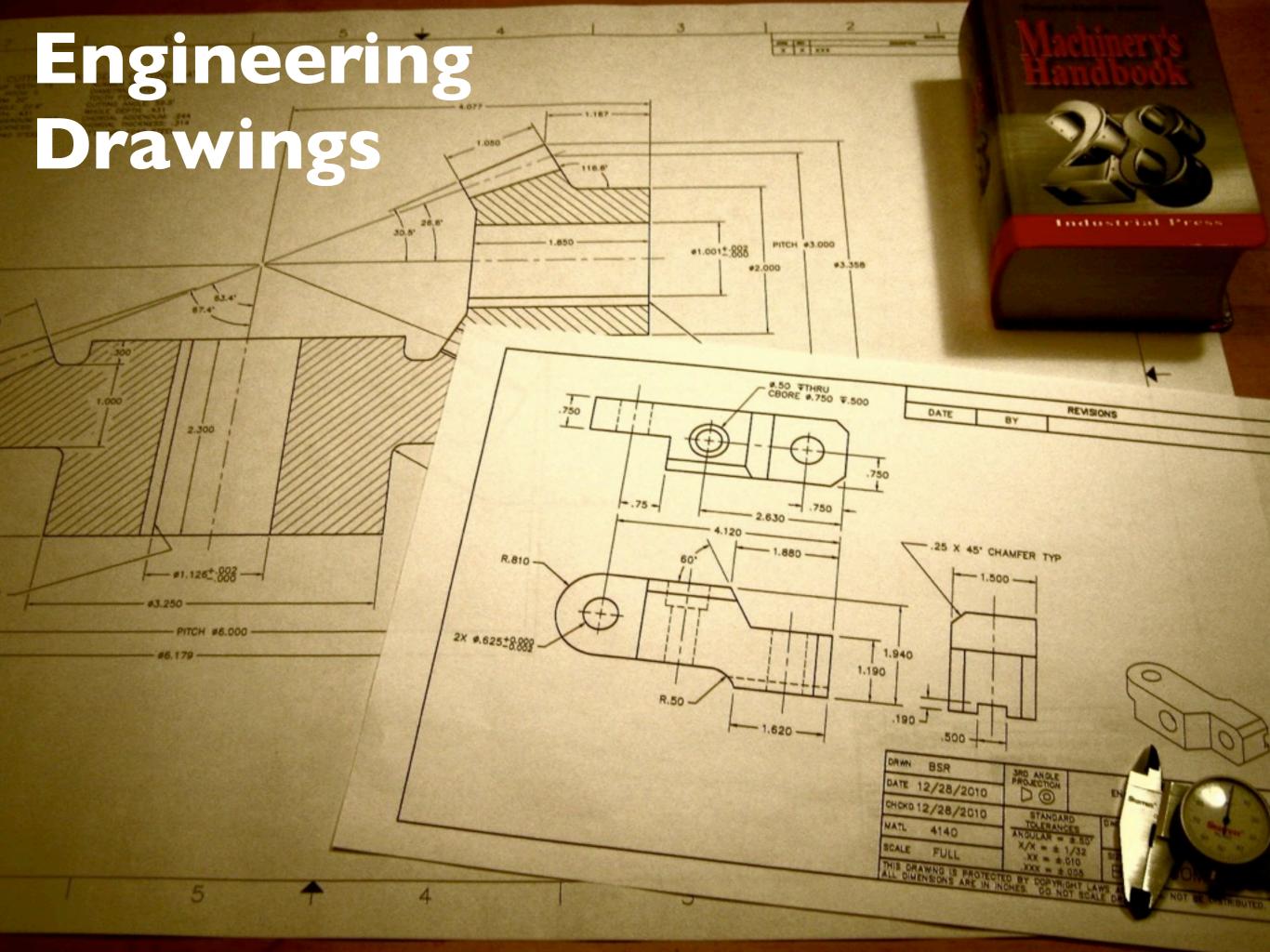




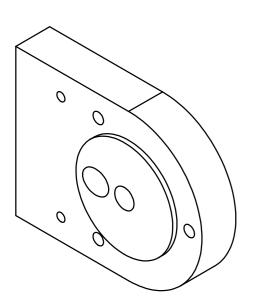
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# Machine Shop University of Pennsylvania

- Only work on machinery for which you have been trained
- Never work alone
- Wear safety glasses at all times while inside the fabrication area
- Wear closed-toe shoes or boots
- Remove jewelry
- Wear no excessively loose clothing that could get caught in machinery
- Tie back long hair
- Do not use your cellphone or headphones while operating machinery
- Have a clear frame of mind (no intoxication, no excessive sleep deprivation)
- Dispose of any chemical waste in proper containers
- No food or drink are permitted in the shop area
- Ask for help if you are unsure of something
- Keep all work surfaces clean and dry
- Clean, reset, and organize equipment after use
- Report all broken/damaged/worn tools to a member of the lab staff
- Complete a 5-10 minute shop job (issued at the discretion of the on-duty staff person) before leaving
- Work to ensure the safety of yourself and others
- Any injuries must be reported immediately via an injury incident report

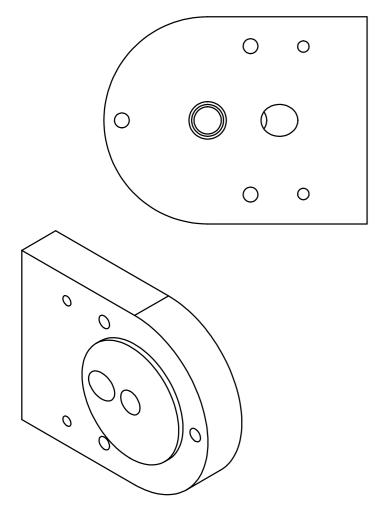


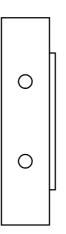
### **Isometric View**

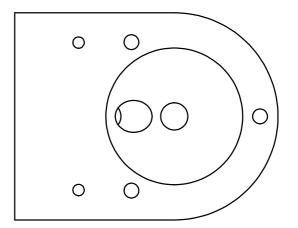


5 4 3

### Orthographic Projections



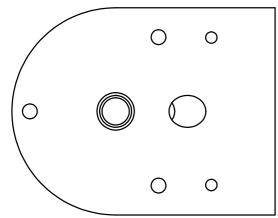


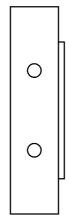


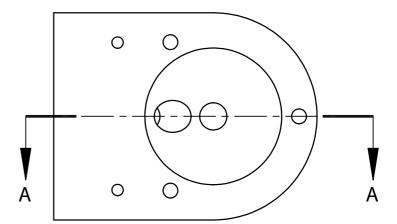
### **Section View**

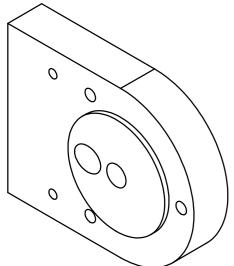


SECTION A-A





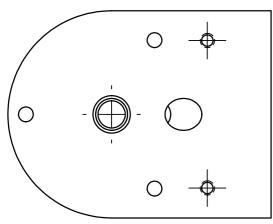


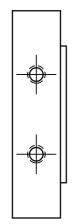


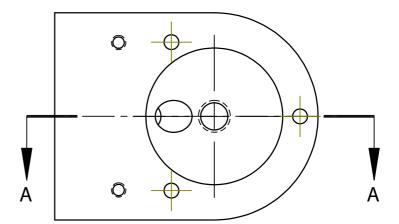
### **Hole Centers**

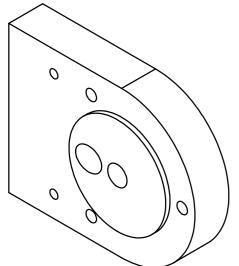


SECTION A-A





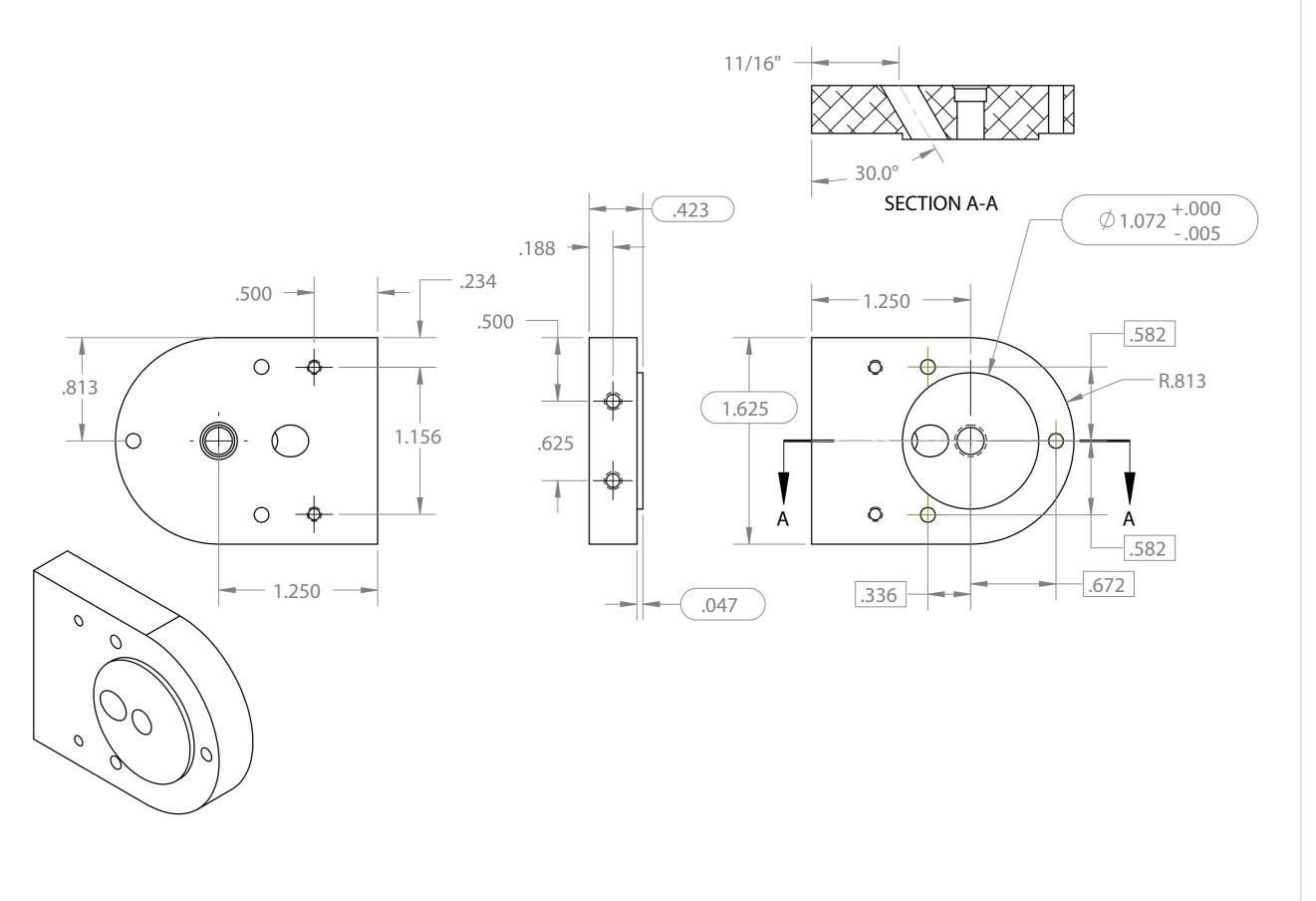




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4 3 2

### **Dimensions**



### **Tolerances**

