ORTIZ POLYMER MECHANICS LABORATORY
Digital Instruments Multimode Atomic Force Microscope
New Training and Certification Procedures
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Training Procedure:

1. Pick up a laboratory notebook from the chemical stockroom.

2. Pick up the following 4 documents from Professor Ortiz:
   - Multimode Training SPM Training Manual (Chapters 1-5) including AFM Safety Precautions
   - DI Scanning Probe Microscopy Training Notebook
   - “A Practical Guide to Scanning Probe Microscopy” (Thermomicroscopes)
   - AFM Usage Procedures / Guidelines (Laurel Ng)
   Read through these documents briefly before scheduling the first training.

3. Meet with trainer individually or in group for initial introductory AFM trainer demonstration (2 hrs)
   - Bring Lab Notebook and 4 documents from (2) above to training. Unless you have these documents, you will not be trained.

4. Meet with Trainer individually: You will go through all of the procedures yourself with the trainer helping and supervising you (2-3 hrs).

5. Read and Study Documents listed in 2. in detail.

6. If you feel you need more exposure, sit it and observe other certified students AFM experiments.
Certification Procedure:

1. Take Written Closed Book Test on Documents in 2.
   - Schedule a time with Laurel. She will write up the
   - and grade the test.
     - e.g. Fundamentals of AFM, how each component works, safety precautions,

2. Take Open Book Imaging Test In Lab: CONTACT MODE
   - IMAGING IN AIR AND FLUIDS (if applicable)
   - Schedule with Prof. Ortiz
     - e.g. Go through all imaging procedures. You may bring all reference materials.

If YOU PASS BOTH,
THEN YOU MAY USE THE AFM BY YOURSELF!