

TENTATIVE 2025 SCHEDULE - COMMUTER TRACK

Nanoscale Microscopy Schedule					
Time	Monday	Tuesday	Wednesday	Thursday	Friday
8:45 AM - 9:00 AM	Registration				
9:00 AM - 9:10 AM	Course Introduction	Overview + Questions	Overview + Questions	Overview + Questions	Prepare for Final Presentation
9:10 AM - 9:30 AM	Introduction to Nanoscale Microscopy	Fluorescence Microscopy Part 1	Intro to EM and Tomography	Intro to Scanning Probe Microscopy (SPM) Part 1	
9:30 AM - 10:00 AM			Pre-homework Papers Discussions		
10:00 AM - 10:30 AM	DIY Microscope	Fluorescence Microscopy Sample Prep	Introduction to Electron Microscopy and Tomography Part 2	Seeing is Feeling Exercise	Final Presentations
10:30 AM - 11:00 AM					
11:00 AM - 11:30 AM		Fluorescence Microscopy Part 2	Intro to SPM Part 2: Applications		
11:30 AM - 12:00 PM	Guest Lectures Research Topic 1 & 2			Lunch	
12:00 PM - 12:30 PM	Lunch	Lunch	Lunch	Lunch	
12:30 PM - 1:00 PM		Final Project Discussion	Blog Highlights	Final Project Discussion	
1:00 PM - 1:30 PM	Guest Lectures Research Topic 3 & 4	Confocal Imaging	EM Sample Prep Scanning Electron Microscope 3D Visualization	Hands-on Activities: STM simulator, AFM imaging, Magnetic AFM, Bio AFM, Image Processing AND Work on Final Presentation	Closing Reception
1:30 PM - 2:00 PM					
2:00 PM - 2:30 PM	DIY Microscope Continued				
2:30 PM - 3:00 PM					
3:00 PM - 3:30 PM					
3:30 PM - 4:00 PM	Journal Club	Work on Final Project			
4:00 PM - 4:30 PM					
4:30 PM - 5:00 PM	Homework and Final Project Overview				