Syllabus for Anatomical Methods (MCBA 720) Fall 2023
Lectures Friday – 10AM Bldg 1 Room B60

Week 1: September 1
• Review of fluorescence and confocal microscopy

Week 2: September 8
• Recent advances in fluorescence microscopy – Super resolution

Week 3: September 15
• Recent advances in fluorescence microscopy – Super resolution

Week 4: September 22
• Recent advances in fluorescence microscopy – Expansion Microscopy and other techniques

Week 5: September 29
• Recent advances in electron microscopy – Cryo EM

Week 6: October 6
• Recent advances in electron microscopy – Cryo EM

Week 7: October 13
• Recent advances in electron microscopy – Volume Microscopy

Week 8: October 20
• AMIRA and 3D reconstruction - Lorain

Week 9: October 27
• Small animal imaging - Lorain

Week 10: November 3
• Atomic Force and Raman Microscopy

Week 11: November 10
• Correlative imaging (combination systems)

Week 12: November 17
• Something

Week 13: November 24
• Thanksgiving

Week 14: December 1
• Research Presentations