

Tentative Fall 2019 BIOF 350 Image Analysis Calendar	
Week	Course Content
Aug 19	Introduction, Loading and Working With Images
Aug 26	Microscope technologies
Sep 2	Labor day Monday, Sample Preparation: How it works from living organism to microscope images
Sep 9	3D Image Data: Working with Confocal, SBEM, and MRI images
Sep 16	Boundary Detection and Segmentation
Sep 23	Contrast, Editing Techniques to Highlight Image Features
Sep 30	Developing an Efficient User Interface for Image Analysis Software
Oct 7	Presentations, research project start
Oct 14	Continued Presentations
Oct 21	Midterm and results
Oct 28	Introduction to Supervised Machine Learning
Nov 4	Applying Machine Learning to Image Segmentation
Nov 11	Introduction to Graphics Processors
Nov 18	Using Graphics Processors to Edit Images
Nov 25	Thanksgiving Break
Dec 2	Future Imaging Technologies in Development, Course Conclusion, research projects due
Dec 9	Final Exam