

Tentative Schedule v1 (version 8/8/20)

	Tuesday	Thursday
8/24 – week 1	Lecture - Basic optics: Introduction	Optics lab 1: -Make paper microscopes -water lens -exploration
8/31 – week 2	Lecture - Basic optics: Magnification contd.	Optics lab 2: -Pinhole camera -Diffraction experiments -Abbe?
9/7 – week 3	Lecture - Basic optics: Resolution <i>(choice of confocal presentation due)</i>	Lecture - Confocal – 1 Fluorescent proteins
9/14 – week 4	Lecture - Confocal-2 <i>(Confocal Presentations)</i>	Lab - Confocal Tutorial 1 <i>(Choice of microscopy presentation due)</i>
9/21 – week 5	Lab - Confocal Tutorial 1	Image Processing Tutorial
9/28 – week 6	Discussion of individual projects	Discussion of individual projects <i>(Project 1 due)</i>
10/5 – week 7	Confocal Tutorial 2	Confocal Tutorial 2
10/12 -week 8	Stereoscope/SPINNING DISK /TIRF <i>(Individual project prospectus due)</i>	Analysis of Figures
10/19 – week 9	Lightsheet and Basel Beam/ SPIM and diSPIM/adaptive optics	Own experiment <i>(Project 2 due)</i>
10/26 – week 10	Multiphoton / Optical Projection tomography/Second harmonics	Own experiment
11/2 – week 11	Super-resolution: PALM and STORM/STED /SIM	Own experiment
11/9 – week 12	<b>Deconvolution guest lecture</b>	Own experiment
11/16 – week 13	Own experiment	Presentations <i>(Individual research project due)</i>
11/23 –		