	Tuesday June 19		Wednesday June 20		Thursday June 21	
8:30 - 9 AM	Coffee & danish		Coffee & danish		Coffee & danish	
9 AM - Noon (Coffee break 10:20-10:40 AM)	Introduction to galaxies		Distant galaxies		Clusters of galaxies	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
	 Quick review of main sequence stars Galaxy types and the "Hubble Diagram" Basics of galactic structure and stellar orbits The Milky Way (structure, tidal streams, Galactic Center) The Magellanic Clouds and our Local Group 	Daryl Haggard (McGill)	 Growing disks in galaxies Star formation processes Building bulges in galaxies Feedback processes at high-redshift 	Sarah Gallagher (Western University)	 Definitions and descriptions of galaxy clusters and groups Cluster/group survey techniques and status of the field Galaxy populations within clusters and groups: demographics and trends 	Tracy Webb (McGill)
	Galaxies in the era of JWST	L. Albert & R. Doyon (UdeM)	- recasack processes at high reashing		 The hot gas and dark matter halos in clusters/groups Galaxy cluster/group formation and evolution AGN feedback processes in galaxy groups/clusters 	
Noon - 1:30 PM	Lunch		Lunch		Lunch	
1:30 - 4:30 PM (Coffee break 3:00 - 3:20 PM)	Local galaxies		Numerical methods		Cosmological probes	
	Topics	Instructor	Topics	Instructor	Topics	Instructor
	 The local galaxy population: basic structure and demographics The galactic ecosystem: the ISM, star formation, and feedback Stars, gas, size and mass: local galaxy scaling relations Galaxy groups and clusters: environmental effects Isolated galaxies: secular evolution Nearby galaxies at your fingertips: large galaxy surveys now and in the future 	Kristine Spekkens (RMC)	 Numerical simulations: basic concepts Specific problems in galaxy formation and evolution Gravity-only simulations Gas dynamics in simulations. Subgrid physics: star formation, feedback, chemical enrichment, AGN Interaction with environment; supergrid physics 	Hugo Martel (U Laval)	 How are galaxies a probe of cosmology? What do we hope to learn by studying the density field? How do we quantify the statistics of the density field in a way that connects to observations? What do these functions look like and what are their current state of the art values? Cosmology as it relates to the growth of structure The Sunyaev Zeldovich Effect and observations of galaxy clusters Cluster surveys as a probe of dark energy 	Adrian Liu & Matt Dobbs (McGill)