Extragalactic Astrophysics / PHYS-GA 2051 / Fall 2018 / Syllabus

This course teaches the astrophysics of galaxies and quasars at the graduate level.

You can find the course notes at the course web site. Please read the introduction posted on the web site.

A useful textbook is *Extragalactic Astronomy and Cosmology*, by Peter Schneider. A good fraction of my notes are drawn from that book.

Class meets Monday and Wednesday at 11:00am in Room 902 of 726 Broadway.

The classes will proceed as follows on the next page (subject to revision!).

Homework will be based on exercises in the notes. The answers to the exercises in the notes are not complete! Actually not complete at all. You will help complete them (with proper attribution to you of course). Each week I will assign one of the questions to each of you in the notes we covered and submit an answer in the form of a LaTeX file or Python notebook, emailed to me.

Sep. 5	Inventory	
Sep. 10	Light I	
Sep. 12	Light II & Telescopes	
Sep. 17	Atmosphere & Detectors	Exercise #1 due
Sep. 19	Images & Spectra	MRB travel, may reschedule
Sep. 24	Distance Ladder	Exercise #2 due
Sep. 26	Cosmology	
Oct. 1	Structure Formation	Exercise #3 due
Oct. 3	Galaxies	
Oct. 9	Galaxies	Exercise #4 due; Legislative Day
Oct. 10	Interstellar medium	MRB travel, may reschedule
Oct. 15	Stellar clusters	Exercise #5 due
Oct. 17	Stellar evolution	
Oct. 22	Stellar populations	Exercise #6 due
Oct. 24	Stellar dynamics	
Oct. 29	Stellar dynamics	Exercise #7 due
Oct. 31	Emission line spectra	
Nov. 5	No class	$MRB\ travel$
Nov. 7	Star formation	Exercise #8 due
Nov. 12	Nucleosynthesis	Exercise #9 due
Nov. 14	Chemical evolution	
Nov. 19	Black holes in galaxies	Exercise #10 due
Nov. 21	Thanksgiving Recess: no class	
Nov. 26	Active galactic nuclei	Exercise #11 due
Nov. 28	Gravitational lensing & clusters	
Dec. 3	Gravitational lensing	Exercise #12 due
Dec. 5	Groups	
Dec. 10	High redshift galaxies	Exercise #13 due
Dec. 12	Ly- α forest	