

SYLLABUS (may change as class progresses)

A. Sargent - Fall 2009

DATE	TOPICS	READING
9/30/09	organization, basic optics, telescopes	Carroll & Ostlie, Chapter 6
10/2/09	celestial sphere, coordinates, time	Carroll & Ostlie, Chapter 1
10/5/09	celestial mechanics, Kepler's laws, stellar distances	Carroll & Ostlie, Chapters 2 (3)
10/7/09	Planck function, astronomical measurements	Carroll & Ostlie, Chapter 3
10/9/09	line radiation, classification of stellar spectra	Carroll & Ostlie Chapters (5), 8
10/12/09	stellar spectra cont'd, Hertzsprung Russell Diagram	Carroll & Ostlie Chapter 8
10/14/09	stellar atmospheres: radiation field, stellar opacity,	Carroll & Ostlie Chapter 9
10/16/09	binary stars, stellar masses, extra solar planets (intro)	Carroll & Ostlie, Chapter 7 (2,3)
10/19/09	stellar atmospheres: radiative transfer, line profiles	Carroll & Ostlie, Chapter 9
10/21/09	stellar atmospheres/stellar interiors	Carroll & Ostlie, Chapters 9 (10)
10/23/09	NO CLASS/MID-TERM AVAILABLE	
10/26/09	stellar interiors, hydrostatic equilibrium, energy sources	Carroll & Ostlie Chapter 10
10/28/09	stellar interiors, energy generation/transport, Sun	Carroll & Ostlie Chapters 10(11)
10/30/09	Interstellar medium, extinction, star formation	Carroll & Ostlie Chapter 12
11/2/09	interstellar medium, pre-main sequence evolution	Carroll & Ostlie Chapter 12
11/4/09	stellar evolution, post-main sequence	Carroll & Ostlie Chapter 13
11/6/09	massive stars, post-main sequence	Carroll & Ostlie Chapter 15
11/9/09	LABS & Observing	
11/11/09	LABS & Observing	
11/13/09	LABS & Observing	
11/16/09	remnants of stars	Carroll & Ostlie Chapter 16
11/18/09	the solar system	C & O §III (bits & pieces)
11/20/09	the solar system	C & O §III (bits & pieces)
11/23/09	the solar system	C & O (bits and pieces)
11/25/09	Our Galaxy, structure and kinematics	Carroll & Ostlie Chapters 17,18
11/27/09	THANKSGIVING HOLIDAY	
11/30/09	Our Galaxy, structure and kinematics	Carroll & Ostlie Chapters 17,18
12/2/09	Our Galaxy, structure and kinematics	Carroll & Ostlie Chapters 17,18
12/4/09	REVIEW	