

ASTRONOMY 10 – SUMMER 2017
GENERAL SCHEDULE OF ACTIVITIES

WEEK #	DATE	TOPICS AND ACTIVITIES	TEXTBOOK READING	ASSIGNMENT	DUE AT 11:59PM !!
1a	6/13 Tue	Enrollment Check, Introduction and Objectives Overview of Astronomy and the Universe Distance and Time Scales, The Scientific Method	Preface	Log into MASTERING ASTRONOMY	6/13
1b	6/14	Planetarium Sky Demonstrations – Terminology and Motions Seasons Third hour A (in ST-2)	Chapter 1	Assignment 00	6/18 Sun.
1c	6/15	Moon Phases, Eclipses. Early History and the Geocentric Models. Science and the Heliocentric Model. Ptolemy, Copernicus, Brahe, Kepler, Galileo	Chapter 2	Assignment 01	6/18 Sun.
2a	6/20 Tue	Newton’s 3 Laws of Motion & the Law of Universal Gravitation Surface Gravity, Escape Velocity, Tides, and Precession	Chapter 3	Assignment 02	6/21
2b	6/21	Third hour B, Third Hour C (in ST-2)	Chapter 4		
2c	6/22	Properties of Light, Electromagnetic Spectrum, Wien’s Law Atoms and Spectra, the Doppler Shift, Atmospheric Absorption	Chapter 5	Assignment 03	6/23
3a	6/27 Tue	Structure, Dynamics of the Solar System. Overview of the planets , and origin of the Solar System Earth and moon system Take-Home Midterm Available (Part 1 – 40 pts)	Chapter 6	Assignment 04	6/28
3b	6/29	Third hour D, Third Hour E (in ST-2)			
3c	6/30	Terrestrial Planets – Mercury, Venus and Mars Why are the Terrestrial Planets So Different	Chapter 7	Assignment 05	6/30

4a	7/04 (Holiday)	No Classes. Overview of the Outer Planets The Jovian Planets – Jupiter, Saturn, Uranus, and Neptune Solar System Rings and their Moons	Chapter 8	Assignment 06	7/5
4b	7/05	Third hour F, Third hour G (in ST-2)			
4c	7/06	Solar System Debris (Asteroids, Comets, Meteors) Dwarf Planets Pluto, Charon, and the Kuiper Belt	Chapter 9	Assignment 07	7/7
5a	7/11 Tue	<u>Take-Home Midterm</u> (Part 1,40 pts.) <u>Due today by 10:00 am</u> Extra Credit (first 10 pts) – Due today <u>Midterm</u> (Bring Scantron 882 and #2 Pencils) Physical Characteristics and Processes of the Sun	Chapter 10	Midterm – On Line	7/12
5b	7/12	Properties of Stars: Temperature, Luminosity, Radius, Mass Stellar Spectra and the HR Diagram,	Chapter 11	Assignment 08	7/12
5c	7/13	Theories of Stellar Formation, Evolution, and Death Low mass stars, High mass stars and their life cycles. <i>SkyQuiz and Deep Sky intro</i>	Chapter 12	Assignment 09	7/14
6a	7/18 Tue	Novae, Supernovae, and Nucleosynthesis White Dwarfs, Pulsars and Neutron Stars Accretion Disks and Black Holes	Chapter 13	Assignment 10	7/19
6b	7/19	Third hour H, Third Hour I (in ST-2)			
6c	7/20	The Milky Way Galaxy: Characteristics and Dynamics Stellar Birth and Death within the Milky Way. The Galaxy's core.	Chapter 14	Assignment 11	7/21
7a	7/25 Tue	Characteristics and Dynamics of Galaxies, Quasars and other Active Galaxies. Cepheids and standard candles, Hubble's Law.	Chapter 15	Assignment 12	7/26

7b	7/26	Third hour J, Third Hour K (in ST-2)			
7c	7/27	The Large Scale Structure of the Universe. Dark Matter, and the fate of the Universe. Cosmology – Origin, Structure, and Evolution of the Universe and the Big Bang,	Chapter 16 Chapter 17	Assignment 13	7/28
8a	8/01 Tue	Third hour L, Third Hour M (in ST-2) Study Session			
8b	8/02	<u>Sky Quiz</u> (30 pts) and <u>Deep Sky Object Quiz</u> (20 points), Balance of Extra Credit Due by Start of Class TODAY!			
8c	8/03	<u>Group Effort</u> (20 pts) (in ST2) <u>Final Exam</u> (70 pts)			