

ASTRONOMY 2 – SPRING 2019
GENERAL SCHEDULE OF ACTIVITIES

WEEK #	WEEK BEGINNING	LECTURE TOPICS AND ACTIVITIES	TEXTBOOK READING*	HOMEWORK**	3RD HR EXERCISE	CPS QUIZ
1	1/28	Enrollment Check, Introduction and Objectives Overview of Astronomy and the Universe Distance and Time Scales, Our Place in the Cosmos	Chapter 1	Assignment 0 Due 02/07	Intro-go to 3 rd hour!	—
2	2/4	Planetarium Sky Demonstrations – Terminology and Motions Seasons, Precession, Moon Phases, Eclipses Ancient Mysteries – Retrograde Motion and Stellar Parallax	Chapter 2	Assignment 1 Due 02/07	A	—
3	2/11 Friday Holiday	Early History and the Geocentric Models, Ptolemy Origins of Modern Astronomy – Copernicus, Brahe, and Kepler Galileo – Nature of Science, Observations, and Inertia and Motion	Chapter 3	Assignment 2 Due 02/14	B	AA
4	2/18 Monday Holiday	Newton’s Three Laws of Motion, Force and Acceleration Conservation Laws, Momentum and Energy Law of Universal Gravitation, Orbits and Tides	Chapter 4	Assignment 3 Due 02/21	C***	BB
5	2/25	Properties of Light, Waves & Photons, Electromagnetic Spectrum Properties of Matter, Atomic Structure, Phase Changes Atoms and Spectra, The Stefan-Boltzmann and Wien Laws Doppler Shift, Radial Velocity and Rotation	Chapter 5	Assignment 4 Due 02/28	D	CC
6	3/4	Telescopes – Refractors & Reflectors, Interferometers Light Gathering, Angular Resolution, Magnification Observations at Nonvisible Wavelengths, Instrumentation Atmospheric Effects – Light Pollution, Twinkling, Windows	Chapter 6	Assignment 5 Due 03/07	E	DD
7	3/11	Comparative Planetology, Spacecraft Investigations Structure and Dynamics of the Solar System Clues to the Formation of the Solar System Take-Home Midterm Available (Part 1)	Chapter 7	Assignment 6 Due 03/14	F	EE
8	3/18	Physical Processes and the Creation of the Solar System Formation of the Planets and the Aftermath The Age of the Solar System Planetary Geology, Connecting Interiors and Surfaces In-Class Midterm (Part 3) in Third Hour (Bring Scantron 882) Extra Credit (first 10 pts) – Due 03/22 by 12:00 Noon	Chapter 8 Chapter 9	Take-Home Midterm (Part 1 - 40 pts Part 2 - 10 pts) Due 03/21	In-Class Midterm (Part 3 – 50 pts)	FF

- * Supplementary Chapter S1, although not required reading, may be helpful in understanding Week 2 lectures and third-hour activities.
** Assignments are found on the “Mastering Astronomy” web site for “The Cosmic Perspective: The Solar System”.
*** Since Monday is a holiday this week, Monday Third-Hour students need to attend a Third-Hour class at a later time during the week.

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(continued)

WEEK #	WEEK BEGINNING	LECTURE TOPICS AND ACTIVITIES	TEXTBOOK READING[†]	HOMEWORK^{††}	3RD HR EXERCISE	CPS QUIZ
9	3/25	The Geologies of the Moon and Mercury, The Geology of Mars and the Geology of Venus The Unique Geology of Earth	Chapter 9	Assignment 7 Due 03/28	G	GG
10	4/1	Atmospheric Basics, Weather and Climate The Atmospheres of the Moon and Mercury Atmospheric Histories of Mars & Venus, The Earth's Atmosphere	Chapter 10	Assignment 8 Due 04/04	H	HH
11	4/8	Overview of the Outer Planets – Jupiter, Saturn, Uranus, Neptune Jovian Weather and Magnetospheres	Chapter 11	Assignment 9 Due 04/11	I	II
	4/15	SPRING BREAK				
12	4/22	The Jovian Moons and Ring Systems	Chapter 11	Assignment 10 Due 04/25	J	JJ
13	4/29	Solar System Debris – Asteroids, Meteoroids, Comets Pluto, Dwarf Planets, and the Kuiper Belt Cosmic Collisions and Consequences	Chapter 12	Assignment 11 Due 05/02	K	KK
14	5/6	Other Planetary Systems – Detection and Nature Formation of Other Solar Systems Searching for Earth-Like Planets	Chapter 13	Assignment 12 Due 05/09	L	LL
15	5/13	Physical Characteristics and Processes of the Sun Sunspots, Solar Activity Cycle, and the Sun-Earth Connection Balance of Extra Credit Due 05/17 by 12:00 Noon	Chapter 14	Assignment 13 Due 05/16	M	MM
16	5/20	Final Exam (110 pts, 3 parts – see <i>Final Exam Outline</i>) and Sky Quiz (30 pts)	—	—	Final	—

[†] Supplementary Chapter S1, although not required reading, may be helpful in understanding activities in Third-Hour.

^{††} Assignments are found on the “Mastering Astronomy” web site for “The Cosmic Perspective: The Solar System”.