

ASTRONOMY 2 – FALL 2018
GENERAL SCHEDULE OF ACTIVITIES

WEEK #	WEEK BEGINNING	LECTURE TOPICS AND ACTIVITIES	TEXTBOOK READING*	HOMEWORK**	3RD HR EXERCISE	CPS QUIZ
1	8/20	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 08/30	Intro-go to 3 rd hour!	—
2	8/27	Planetarium Sky Demonstrations – Terminology and Motions Seasons, Precession, Moon Phases, Eclipses Ancient Mysteries – Retrograde Motion and Stellar Parallax	Chapter 2	Assignment 1 Due 08/30	A	—
3	9/3 Monday 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 09/06	B***	AA
4	9/10	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 09/13	C	BB
5	9/17	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 09/20	D	CC
6	9/24	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 09/27	E	DD
7	10/1	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 10/04	F	EE
8	10/8	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 10/12 by 12:00 Noon	Chapter 8 Chapter 9	Take-Home Midterm (Part 1 - 40 pts Part 2 - 10 pts) Due 10/11	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	10/15	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 10/18	G	GG
10	10/22	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 10/25	H	HH
11	10/29	Overview of the Outer Planets – Jupiter, Saturn, Uranus, Neptune Jovian Weather and Magnetospheres	Chapter 11	Assignment 9 Due 11/01	I	II
12	11/5	The Jovian Moons and Ring Systems	Chapter 11	Assignment 10 Due 11/08	J	JJ
13	11/12 Monday Holiday	Solar System Debris – Asteroids, Meteoroids, Comets Pluto, Dwarf Planets, and the Kuiper Belt Cosmic Collisions and Consequences	Chapter 12	Assignment 11 Due 11/15	K ^{†††}	KK
14	11/19 Thursday Friday Holiday	Other Planetary Systems – Detection and Nature Formation of Other Solar Systems Searching for Earth-Like Planets	Chapter 13	Assignment 12 Due 11/22	L ^{††††}	LL
15	11/26	Physical Characteristics and Processes of the Sun Sunspots, Solar Activity Cycle, and the Sun-Earth Connection Balance of Extra Credit Due 11/30 by 12:00 Noon	Chapter 14	Assignment 13 Due 11/29	M	MM
16	12/3	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”.

^{†††} 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.

^{††††} Since Thursday classes are cancelled this week, the instructor will explain how to complete Third-Hour L.