

Date	Lecture Topic	Corresponding Reading
25th August	Introduction & course overview	Ch. 1
27th August	1. Patterns & Cycles in the Sky The Celestial Sphere	Ch. 2,, Secs. 2.1 & 2.2
29th August	Why we have seasons	Ch. 2, Sec. 2.2
1st September	Labor Day Holiday	
3rd September	Motions of the Moon	Ch. 2, Sec. 2.3
5th September	Solar & lunar eclipses	Ch. 2, Sec. 2.3
8th September	2. What is the structure of the Universe? The Greeks	Ch. 3, Sec. 3.2
8th September	The Middle Ages	Ch. 3, Sec. 3.2
10th September	Copernicus & Galileo	Ch. 3, Sec. 3.3
12th September	Brahe & Kepler	Ch. 3, Sec. 3.3
15th September	Newtonian gravitation & dynamics	Ch. 4., Secs. 4.1, 4.2 & 4.4
17th September	17th C Scientific Revolution	Lecture notes
19th September	Intellectual consequences	Lecture notes
22nd September	3. How do we find knowledge in science? Kinds of logic	Lecture notes
24th September	Science as a way of knowing	Ch. 3, Sec. 3.4
26th September	4. How do we learn about objects and events in the heavens? Matter & energy	Ch. 5, Sec. 5.1, Ch. 4, Sec. 4.3
29th September	Thermal radiation & spectroscopy	Ch. 5, Sec. 5.2
1st October	Mid-Term 1	
3rd October	Mid-Term 1 discussion	
6th October	Telescopes & effects of the atmosphere	Ch. 5., Sec.5.3
8th October	5. Why does the Sun shine? Basic properties of the Sun	Ch. 10, Sec. 10.1
10th October	Solar energy	Ch. 10, Sec. 10.2
13th October	Solar activity	Ch. 10, Sec. 10.3
15th October	6. What is the life cycle of a star? Basic properties of stars	Ch. 11, Sec. 11.1

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17 th October	The Hertzsprung-Russell diagram	Ch. 11, Sec. 11.2
20 th October	Star formation	Ch. 12, Sec. 12.1
22 nd October	Stellar structure	Ch. 12, Sec. 12.2
24 th October	Stellar evolution & the deaths of stars	Ch. 12, Sec. 12.3
27 th October	Neutron stars, pulsars, & black holes	Ch. 13, Secs. 13.1, 13.2 & 13.3
29 th October	7. What is the origin of our Solar System? Overview of the S.S.	Ch. 6, Sec. 6.1
31st October	Origin of the Solar System	Ch. 6, Secs. 6.2-6.5
3rd November	Mid-Term 2	
5th November	Mid-Term 2 discussion	
7 th November	8. What is the life cycle of a galaxy? The Milky Way Galaxy	Ch. 14, Secs. 14.1-14.4
10 th November	Basic properties of galaxies	Ch. 15, Secs. 15.1 & 15.2
12 th November	Dark matter in galaxies	Ch. 16, Sec. 16.1 & 16.2
14th November	Galaxy evolution	Ch. 15, Sec. 15.3
17 th November	Activity in the nuclei of galaxies	Ch. 15, Sec. 15.4
19 th November	9. What is the origin and evolution of the Universe? Olbers' Paradox	Ch. 17, Sec. 17.4
21 st November	Hubble's Law & the age of the Universe	Ch. 15, Sec. 15.2
24 th November	The Big Bang; cosmic background radiation	Ch. 17, Sec. 17.1 & 17.2
26th November	Thanksgiving Holiday	
28 th November	Geometry of the Universe; inflation	Ch. 17, Sec. 17.3
1st December	Dark Energy; the future of the Universe	Ch. 16, Sec. 16.4
3rd December	The early Universe	Ch. 17, Sec. 17.1 & 17.2
5th December	The origin of structure in the Universe	Ch. 16, Sec. 16.3
8 th December	Epilogue: The Anthropic Principle	Lecture notes
10th December	Final exam review	
15th December	Final exam	9.45-11.45 am in Wat 112