

The next exam will try to cover Chapter 16 (but not sections 16.4 or 16.5), Chapter 17, and Chapter 18. The syllabus includes chapter 19 (star formation), but I don't think we will have enough time for it, and so we will tentatively omit it from this exam.

The material on the Sun is pretty important because the description of the interior structure and how we (think we) know about it, energy transport through the sun, and nuclear reactions as the power source, apply to all stars. Chapter 17 is almost entirely concerned with the ways in which astronomers learn the properties of stars. It is impossible to understand this

Chapter 18 is completely separate, and is about the gas between the stars, the gas from which stars form (chapter 19, but probably not this exam). 18 and 19 rely heavily on the use of spectral lines, both electron transitions in atoms (ch.18) and vibrational and rotational transitions in molecules (ch. 19), so if you feel unsure about this topic, it is time to go over it again.

#### Chapter 16. The Sun.

Textbook: RD: All except 13-17; TF, all except 8, 9, 17-19

MC1: 2, 3, 8, 11.

MC2: 1, 2, 4, 7, 12, 13, 14

T/F: 1, 2, 4, 5, 7, 9, 13, 14.

#### Chapter 17. The Stars

Textbook:RD: all except 20 T/F: all except 14,15.

(You will be expected to answer questions like 11, 12, 13, 14.)

MC1: All except 9.

MC2: 3, 5, 7, 9, 11, 12

T/F: 1, 2, 5, 7, 8, 10-15, 17, 18, 20

#### Chapter 18. The Interstellar Medium: Gas and Dust Among the Stars

Textbook: RD: All except 8, 9, 20. T/F: 1, 7-11, 14-17, 20.

MC1: All except 9.

MC2: All except 6-8, 10, and 14.

T/F: ALL except 5, 7, 11, 13, 17, 18.