OUTLINE of TOPICS I covered, or had planned to cover but did not in LECTURE 1. Look at definitions 10 and 23 in some detail [right angle; parallel lines] (** discussed. Not looked at.)

Skim a few of the other definitions. (** NOT DONE **)

Read the Postulates aloud. (** NOT DONE **) Point out Postulate 5 not used till about 1.29.

Discuss 1.1. I.2, 1.3 briefly: “collapsible vs uncollapsible compasses” Compass as measuring stick. ( (** NOT DONE **)

then: I.4, 1.8 [SAS, SSS] USE NOW:

IN CLASS: construct the perpindicular bisector to a given line segment ! See worked problem (**FOCUSED ON THIS !**; used also Euclid-the-Game to start)
MENTION HW , due Thurs: construct angle bisector.
Cf HWmasterB .. Continue w Euclid. “vertical angles”: I.15.

AFTER BREAK: Thales theorem “1” and “2” . Worked on proofs. Got near to end.
Touched spherical geometry via cutting an orange to get a 90-90-90 triangle. Touched on the three geometries, blathered a bit about cosmology.

*********************** Missing: We do not cover

In the course, before the midterm, we will cover significant parts of books 1,3 and 4 and 6.

Highlights
From book 1:
1.31: the sum of the interior angles of a triangle is 180 degrees
1.47: Pythagoras’ theorem.
1.20 the Triangle inequality. [Used as an axiom in defining a “metric space”]
1.4: SAS
1.8: SSS
1.29: is the first time the parallel postulate is used.

From book 3. The Thales theorem about angles made within circles.
Book 4. Construct the insribed and circumsribed regular N-gons in a circle for N = 3, 4, 5, 6, 15.
Book 13: Construct the 5 Platonic Solids. Show that is all.
*********************** Missing: We do not cover

Books 2, 7-10: arithmetic , some algebra, number theory. length and area as the basic objects on which arithmetic operations act. Theory of irrationality or incommensurability. Supercended today by “the real number line” and its arithmetic.

Books 11-13: Solid geometry, ending with the grand finale: the construction of the Platonic solids and showing there are only five.