LECTURE 1, 18.157, 4 FEBRUARY 2014

(1) What I will assume – see Chapter 1 of the notes, plus I will later assume knowledge of manifolds.
(2) I will give a brief description of what I hope to cover in the course – with some alternatives for people to consider.
(3) I will then go through some motivation for, a few applications of and then the basic definition and properties of pseudodifferential operators on Euclidean space with sketched proofs. Then start to go into more detail. However, I plan to leave some of the estimates to be read in private. All that I will do for the moment is in Chapter 2 of the notes.