

September 11, 2015
MSE 2101 topics

- The methods of scientific deduction
 - Hypothesis – an educated guess
 - Building the model
 - Testing predictions by observation
 - Refining the model
 - Creating the theory
- Exploratory research, serendipity
- Science vs. pseudoscience
- Scientific objectivity and bias
- Science and religion – in true or apparent conflict?
- History of the Universe
- Content of the Universe
 - light matter (baryons)
 - dark matter (MACHOs (?), WIMPs (?))
 - dark energy (no clue whatsoever)
- History of the Universe, and the Big Bang
- Future of the Universe – closed, flat or open?