**Stats lecture notes – 09/29/2017**

* Discrete variable (probability mass function) vs. continuous variable (probability density function):
  + Example – average height of women in North America is an example of continuous variable.
* A normal distribution is a bell curve (probability density function) – north Americans’ women height
* A probability won’t be exact but it would be broader:
  + Example PDF (probability density function) height is between 5’4 and 5’8 – Probability area under the cure of PDF and p = 0.55
* What is the probability of a femaile having the height of less than 5’4:
  + If height > 5’8, p = .225
  + If height < 5’4, p = .225