

Exam 01 date: Friday, 2018-03-02

Topics:

1. data – types, roles.
2. summary statistics – interpretation, R code to produce them
3. plots – types, details, keywords, R code to produce them
4. probability – conditional, law of total, Bayes' Theorem, independence
5. random variables – types, roles, simple probability models: normal, Bernoulli, uniform, exponential
6. parameters of random variables – expected value, variance, and their properties
7. probability calculations from known random variables – area under curve and arithmetic with such
8. likelihood – what and how (by hand and computer)

Study tips:

1. Review lecture notes, homework, and examples there within
2. Reproduce examples on your own machine
3. Build off of examples to confirm equations presented
4. Repeat problems/exercises from scratch
5. Repeat computational problems in R
6. Bring questions to class the day before Exam 01