

BME 1132 PROBABILITY AND BIOSTATISTICS Spring 2019

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Lecture: Tuesday 13.00 - 15.50
B-020

Reference Books

Probability & Statistics for Engineers & Scientists_2012 Prentice Hall_9th Ed_Ronald E Walpole

Applied Statistics and Probability for Engineers_2014 Wiley_6th Ed_Montgomery D.C.

Fundamentals of Biostatistics_2015 Brooks Cole_8th Ed_Bernard Rosner

Primer of Biostatistics_2011 McGraw Hill_7th Ed_Stanton A. Glantz

Statistics for the Life Sciences_2016 Pearson_5th Ed_Myra L. Samuels

CONTENTS

1. Describing Data
Frequency Distributions & Graphical Presentation
Numerical Measures
2. Introduction to Statistics
3. Introduction to Probability
4. Random variables and Probability Distributions
5. Discrete Probability Distributions
6. Continuous Probability Distributions
7. Estimation and Confidence Intervals
8. Tests of Hypothesis
9. Linear Regression and Correlation
10. Factorial Experiments

Data Analysis

Matlab- Python- R- SRSS- SAS

- Importing Data
- Processing Data
- Visualization
- Working with Irregular Data

