

## AP-STATISTICS SYLLABUS & TEXT ASSIGNMENTS

Text: Statistics and Data Analysis –2<sup>nd</sup> Edition by Peck, Olsen, & Devore [POD].  
Text: Modeling the World—AP Edition by Bock, Velleman & De Veaux [BVD].  
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### Chapter I: The Role of Statistics [POD]

- Required Reading: pgs 1-9
- Problems: 1.4, 1.6, & 1.7
- Required Reading: pgs 10-18
- Problems 1.8-1.12, 1.14, 1.16, & 1.17
- Activity: Head Size Experiment
- Chapter I Test(s)

### Chapter II: The Data Analysis Process and collecting Data Sensibly [POD]

- Required Reading: pgs 39-42
- Problems: 2.1, 2.4-2.6, 2.15, 2.17, 2.18, 2.20, 2.21, & 2.24-2.26
- Required Reading: pgs 43-51
- Problems: 2.33, 2.34, 2.38, 2.40, 2.42, 2.43, & 2.46
- Required Reading: pgs 53- 56
- Problems: 2.49, & 2.52-2.57
- Required Reading: pgs 66-68
- Sampling Variability Quiz
- Activity: Snood Power
- Activity: Kiss of Woman Spider
- Chapter II Test(s)
- Chapters 11 (#26); 12 (#28); 13 (#42) & Review Part III (#24) [BVD]

### Chapter III: Graphical Methods for Describing Data [POD]

- Required Reading: pgs 79-87
- Problems: 3.3, 3.4, 3.7, 3.12, & 3.16
- Required Reading: pgs 92-96
- Problems: 3.17-3.20
- Required Reading: pgs 99-115
- Problems: 3.29-3.31
- Required Reading: pgs 120-128
- Problems: 3.42, 3.48 & 3.52
- Activity: Locating States
- Chapter III Test(s)
- Chapters 3 (#31 & 38) & 4 (#12, 26, 28, 36 & 38) [BVD]

### Chapter IV: Numerical methods for Describing Data [POD]

- Required Reading: pgs 151- 159
- Problems: 4.1, 4.5, 4.7, 4.8, & 4.12

- Required Reading: pgs 162-169
- Problems: 4.16, 4.19, 4.20, 4.22-4.24, & 4.29
- Required Reading: pgs 172-176
- Problems: 4.30-4.32, 4.34, 4.35 & 4.37
- Required Reading: pgs 178-184
- Problems: 4.38, 4.43, 4.45, & 4.52
- Required Reading: pgs 187-191
- Activity: 4.2 Boxplot Shapes
- Chapter IV Test(s)
- Chapters 5 (#8, 14, 28 & 32); 6 (#41 & 42) & Review Part I (#28, 30 & 38) [BVD]
- 2001 AP exam Q1

#### Chapter V: Summarizing Bi-Variate Data [POD]

- Required Reading: pgs 201-210
- Problems: 5.1, 5.2, 5.5, 5.7-5.9, 5.12 & 5.13
- Required Reading: pgs 213-221
- Problems: 5.18-5.20, 5.22 & 5.24
- Required Reading: pgs 224-235
- Problems: 5.35, 5.36, 5.39, 5.40 & 5.41
- Required Reading: pgs 239-252
- Problems: 5.47-5.49 & 5.54
- Required Reading: pgs 255-258
- Chapter V Test(s)
- Chapters 7 (#12, 16, 35 & 36); 8 (#38, 47 & 48); 9 (#24); 10 (#1, 2 & 24) & Review Part II (#8, 17, 22 & 42) [BVD]
- 2004 AP Exam Q1
- 2004 AP Exam (B) Q1

#### Chapter VI: Probability [POD]

- Required Reading: pgs 271-292
- Problems: 6.14, 6.17-6.21, & 6.26
- Required Reading: pgs 298-302
- Problems: 6.33, 6.37, & 6.39
- Required Reading: pgs 305-312
- Problems: 6.40, 6.44, 6.49, & 6.51
- Required Reading: pgs 315-324
- Problems: 6.61, 6.73 & 6.74
- Required Reading: pgs 327-336
- Problems: 6.75 & 6.76
- Chapter VI Quiz
- Chapter VI Test(s)
- Chapters 14 (#24, 30 & 32) & 15 (#4, 6, 8, 10, 14, 22, 24, 28, 40 & 42) [BVD]

#### -Chapter VII: Random Variables and Probability Distributions [POD]

- Required Reading: 351-359

- Problems: 7.8, 7.9 & 7.11
- Required Reading: pgs 361-365
- Problems: 7.20, 7.24-7.26
- Required Reading: pgs 366-377
- Problems: 7.28, 7.29, 7.32-7.34, & 7.43
- Required Reading: pgs 380-389
- Problems: 7.46, 7.52, 7.54-7.56, 7.60, & 7.63
- Required Reading: pgs 392-407
- Problems: 7.64, 7.66, 7.68, 7.72, 7.74-7.76, 7.78 & 7.80
- Required Reading: pgs 420-422
- Problems: 7.93, 7.94, 7.97, 7.98, 7.100 & 7.101
- Chapter VII Test(s)
- Chapters 16 (#16, 20, 34, 36, 38 & 40); 17 (#8, 10, 12 & 30) & Review Part IV (#2, 8, 10, 16, 20 & 26) [BVD]

#### Chapter VIII: Sampling Variability & Sampling Distribution [POD]

- Required Reading: pgs 441-449
- Problems: 8.1-8.4, 8.7 & 8.11
- Required Reading: pgs 451-459
- Problems: 8.14-8.17, 8.21, 8.23 & 8.26
- Required Reading: pgs 463-466
- Problems: 8.27-8.35
- Chapter VIII Test(s)
- Chapter 18 (#12, 14, 26, 28 & 42) [BVD]
- AP Exam Packet of selected problems

#### Chapter IX Estimation Using a Single Sample [POD]

- Required Reading: pgs 475-480
- Problems: 9.1, 9.4-9.7, & 9.10
- Required Reading: pgs 482-492
- Problems: 9.11-9.14, & 9.23-9.27
- Required Reading: pgs 495-504
- Problems: 9.28-9.33, 9.35, 9.38, 9.40, 9.42, & 9.46
- Chapter IX Test(s)
- Chapter 19 (#7, 8, 22, 30, 32 & 34) [BVD]
- AP Exam packet of selected problems

#### Chapter X: Hypothesis Testing using a Single Sample [POD]

- Required Reading: pgs 521-225
- Problems: 10.7 & 10.10
- Required Reading: pgs 526-530
- Problems: 10.12 & 10.16
- Required Reading: pgs 532-542

- Problems: 10.24, 10.28 & 10.36
- Required Reading: pgs 545-553
- Problems: 10.46, 10.48, 10.57 & 10.58
- Required Reading: pgs 556-564
- Chapter X Test(s)
- Chapters 20 (14, 16 & 26); 21 (#8, 14, 16 & 20) & 23 (#26 & 34) [BVD]
- AP Exam packet of selected problems

#### Chapter XI: Comparing Two Populations [POD]

- Required Reading: pgs 575-588
- Problems: 11.2-11.6, 11.12, 11.14, 11.15, 11.17-11.21, 11.23, & 11.28
- Required Reading: pgs 595-603
- Problems: 11.29, 11.33, 11.36-11.40
- Required Reading: pgs 606-612
- Problems: 11.41, 11.42, 11.45-11.47, 11.49-11.56
- Chapter XI Test(s)
- Chapters 22 (#8 & 16); Review Part V (#16 & 26); 24 (#8); 25 (#14 & 20) & Review Part VI (#10, 20, 22, 24 & 26a) [BVD]
- AP Exam packet of selected problems

#### Chapter XII: The Analysis of Categorical Data and Goodness of Fit Test [POD]

- Required Reading: pgs 637-644
- Problems: 12.4-12.8, 12.12
- Required Reading: pgs 646-658
- Problems: 12.16-12.18 12.20, 12.22, 12.24 & 12.25, 12.32 & 12.33
- Required Reading: pgs 665-666
- Chapter XII Test(s)
- Chapter 26 (#4, 12 & 16) [BVD]
- AP Exam packet of selected problems

#### Chapter XIII: Simple LSR & Correlation: Inferential Methods [POD]

- Required Reading: pgs 675-686
- Problems: 13.1-13.11
- Required Reading: pgs 688-695
- Problems: 13.18, 13.20-13.22, 13.25
- Chapter 27 (#2 & 36) & Review Part VII (#4, 8, 10, 12 & 16) [BVD]

**\*\*Note:** Supplementary text assignments/readings are assigned on an “as needed basis” as determined by the instructor. Students are encouraged to do more than the minimum, or what is assigned, and to use the supplementary materials to enrich their knowledge of Statistics.