Introduction to Statistics and Co-requisite Support Course Sample Timeline

Adapted from and with thanks to Roane State Community College

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| Day | Co-requisite Notebook Topics | On-line Lab | *Essentials of Statistics* Triola 5th ed. | | | MyLabsPlus Assign-ment |
| 0 | Orientation, study skills, time management | 0 |  | Orientation | | 0 |
| 1 | Whole numbers: place value, rounding, estimating, problem solving, variable expressions | 1 | 1.1 – 1.2 | Orientation; introduction to statistical terms and statistical thinking | | 1 |
| 2 | ***Must have TI-83/84 Calculator!*** Exponents, square roots, fractions, order of operations | 2 | 1.3 – 1.4 | Types of data; collecting sample data | | 2 |
| 3 | Decimals, ratios, percent, conversions | 3 | 2.2 – 2.3 | Frequency distributions; histograms | | 3 |
| 4 | Applications of percent | 4 | 2.4 | Graphs that enlighten and graphs that deceive | | 4 |
| 5 | Operations on real numbers, scientific notation | 5 | 3.2 | Measures of center | | 5 |
| 6 | Review of types of data, sampling methods, types of graphs | 6 | 3.3 – 3.4 | Measures of variation; measures of relative standing and boxplots | | 6 |
| 7 | Review of measures of center and variation | 7 | Practice Test 1 | | | |
| 8 | Comprehensive review of chapters 1 – 3 & basic skills | 8 | **Test 1** | | | |
| 9 | Review basic skills and concepts of probability | 9 | 4.1 – 4.2 | Basic concepts of probability | 7 | |
| 10 | Review fractions, complements, contingency tables | 10 | 4.3 – 4.5 | Probability rules: addition, multiplication | 8 | |
| 11 | Probability distributions, discrete vs. continuous, Inequalities | 11 | 5.2 | Probability distributions | 9 | |
| 12 | Discrete probability distributions, maximum and minimum usual values | 12 | 5.3 – 5.4 | Binomial distributions; parameters | 10 | |
| 13 | Review of probability and discrete probability distributions | 13 | Practice Test 2 | | | |
| 14 | Comprehensive review: chapters 4 – 5 & basic skills | 14 | **Test 2** | | | |
| 15 | Area of a rectangle, lower/upper boundaries of regions, identify specified area under a curve, shade the area representing a percentile | 15 | 6.2 – 6.3 | Standard normal distribution; applications | 11 | |
| 16 | Uniform distribution, standard normal curve, find z-scores, find critical values, determine type of problem | 16 | 6.5 | Central Limit Theorem | 12 | |
| 17 | Probability/proportion/percent, calculate critical values, deconstruct intervals, identify parts of proportion problems | 17 | 7.2 | Estimating a population proportion | 13 | |
| 18 | Find the best point estimate, calculate CI estimate for proportion, determine the required sample size | 18 | 7.3 | Estimating a population mean | 14 | |
| 19 | Review of normal probability distributions and confidence intervals | 19 | Practice Test 3 | | | |
| 20 | Comprehensive review: chapters 6 – 7 and basic skills | 20 | **Test 3** | | | |
| 21 | Coordinate system, intercepts, graph lines, compare & round decimals | 21 | 8.2 | Basics of hypothesis testing | 15 | |
| 22 | Slope from graph & points, average rate of change, 𝑝̂, 𝑥 𝑎𝑛𝑑 𝑛 | 22 | 8.3 | Testing a claim about a proportion | 16 | |
| 23 | Concepts of slope and analyzing linear relationships | 23 | 8.4 | Testing a claim about a mean | 17 | |
| 24 | Scattergrams and concepts of linear equations | 24 | 10.2 – 10.3 | Correlation; regression | 18 | |
| 25 | Review statistical concepts: hypothesis testing, correlation, regression | 25 | Practice Test 4 | | | |
| 26 | Comprehensive review of chapters 8 & 10 and basic skills | 26 | **Test 4** | | | |
| 27 | Review statistical concepts: all chapters | 27 | Practice Final | | | |
| 28 | Comprehensive review: all chapters | 28 | **Final Exam** | | | |