Schedule

A week-by-week breakdown of the material.

Week 1 (09/04-9/08)

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Day 1 A taste of statistics<sup>1</sup>
        Basic Terminology<sup>2</sup>
       HW1 due<sup>3</sup>
Day 2 Visualizing Variables<sup>4</sup>
       Quiz 1 due Sun<sup>5</sup>
Day 3 Lab 1<sup>6</sup>
```

Week 2 (09/11-09/15)

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Day 1 Percentiles<sup>7</sup>
        Measures of Center<sup>8</sup>
        Measures of Spread<sup>9</sup>
       HW2 due<sup>10</sup>
       Quiz 2 due Thu<sup>11</sup>
Day 2 Data Collection<sup>12</sup>
       Linear Transformations<sup>13</sup>
       HW3 due<sup>14</sup>
Day 3 Lab 2<sup>15</sup>
```

¹notes/taste.html

²notes/basic_terminology.html

³assignments/hw1.html

⁴notes/visualizing_distributions.html

⁵https://moodle.hanover.edu/mod/quiz/view.php?id=5177

⁶https://hanoverstatslabs.github.io/resources/labs/Lab1Instructions.html

⁷notes/percentiles.html

⁸notes/measures_center.html

⁹notes/measures_spread.html

¹⁰assignments/hw2.html

¹¹https://moodle.hanover.edu/mod/quiz/view.php?id=5178

¹²notes/data_collection.html

¹³notes/linear_transformations.html

¹⁴assignments/hw3.html

¹⁵https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html

Week 3 (09/18-09/22)

Day 1 Standardized scores¹⁶

Day 2 Density Curves¹⁷
HW4 due¹⁸

Day 3 Lab 3¹⁹

Week 4 (09/25-09/29)

Day 1 The Normal Distribution²⁰

Day 2 The Normal Distribution (cont)²¹

Day 3 Lab 4²²

HW5 due²³

Week 5 (10/02-10/06)

Day 1 Relationships between two variables²⁴ HW6 due²⁵

Day 2 MIDTERM (study guide²⁶)

Day 3 Lab 5²⁷

Week 6 (10/09-10/13)

Day 1 Scatterplots and Correlation²⁸

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<sup>16</sup>notes/linear transformations.html
```

¹⁷notes/density_curves.html

¹⁸assignments/hw4.html

¹⁹https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html

²⁰notes/normal_distribution.html

²¹notes/normal_distribution.html

²²https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html

²³assignments/hw5.html

²⁴notes/relationships.html

²⁵assignments/hw6.html

²⁶notes/midterm1_study_guide.html

²⁷https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html

²⁸notes/scatterplot_correlation.html

Day 2 General Theory on Modeling and Data Fitting²⁹ Linear Models and Regression Lines³⁰ HW7 due³¹

Day 3 Lab 6³²

Week 7 (10/16-10/20)

Day 1 Linear Models and Regression Lines (cont)³³

Day 2 The question of causation³⁴

Day 3 Lab 7³⁵

Week 8 (10/23-10/27)

Day 1 Fall Break

Day 2 Introduction to Probability³⁶

Day 3 Conditional Probability³⁷

Probability rules³⁸ Independent Events³⁹ HW8 due⁴⁰

Week 9 (10/30-11/03)

Day 1 Tree Diagrams⁴¹

Day 2 Random Variables⁴²

HW9 due⁴³

²⁹notes/modeling_general.html

³⁰notes/linear regression.html

³¹assignments/hw7.html

³²https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html

³³notes/linear_regression.html

³⁴notes/correlation_causation.html

³⁵https://hanoverstatslabs.github.io/resources/labs/Lab7Instructions.html

³⁶notes/probability_intro.html

³⁷notes/probability_conditional.html

³⁸notes/probability_rules.html

³⁹notes/independent_events.html

⁴⁰assignments/hw8.html

⁴¹notes/decision_trees.html

⁴²notes/random_variables.html

⁴³assignments/hw9.html

Day 3 The Binomial Setting and Distribution⁴⁴ HW10 due⁴⁵

Week 10 (11/06-11/10)

- **Day 1** Mean and Standard Deviation of Random Variables⁴⁶ HW11 due⁴⁷
- **Day 2** Combining Random Variables⁴⁸
- Day 3 MIDTERM (study guide⁴⁹)

Week 11 (11/13-11/17)

- **Day 1** Mean and Standard Deviation of the Binomial⁵⁰
- **Day 2** Binomial: Approximating by Normal⁵¹
- Day 3 The Sample Mean / IID Setting⁵²

Week 12 (11/20-11/24)

- **Day 1** Inference I: Confidence Intervals⁵³
- Day 2 THANKSGIVING
- Day 3 THANKSGIVING

Week 13 (11/27-12/01)

- **Day 1** Inference I: Confidence Intervals (cont)⁵⁴
- **Day 2** Inference II: Hypothesis Tests⁵⁵
- **Day 3** Inference II: Hypothesis Tests (cont)⁵⁶

⁴⁴notes/binomial.html

⁴⁵assignments/hw10.html

⁴⁶ notes/rv_mean.html

⁴⁷assignments/hw11.html

⁴⁸notes/rv_combine.html

⁴⁹notes/midterm2_study_guide.html

⁵⁰notes/binomial_mean.html

⁵¹notes/binomial_mean.html

⁵²notes/iid setting.html

⁵³notes/confidence intervals.html

⁵⁴notes/confidence intervals.html

⁵⁵notes/hypothesis_tests.html

⁵⁶notes/hypothesis_tests.html

Week 14 (12/04-12/08)

Day 1 TBA

Day 2 TBA

Day 3 Presentations