Schedule

A week-by-week breakdown of the material.

Week 1 (01/07-1/11)

Day 1 A taste of statistics¹
Basic Terminology²

Day 2 HW1 due Fri³
Visualizing Variables⁴
Quiz 1 due Sun⁵

Day 3 Lab 1⁶

Week 2 (01/14-09/18)

Day 1 Percentiles⁷

Measures of Center⁸

Measures of Spread⁹

HW2 due¹⁰

Quiz 2 due Mon of week 3¹¹

Day 2 No class

Day 3 Lab 2¹²

Week 3 (01/21-01/25)

Day 1 Data Collection¹³

HW3 due¹⁴

¹notes/taste.html

²notes/basic terminology.html

³assignments/hw1.html

⁴notes/visualizing_distributions.html

⁵https://moodle.hanover.edu/mod/quiz/view.php?id=14001

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=14002

¹²https://hanoverstatslabs.github.io/resources/labs/Lab2Instructions.html

¹³notes/data collection.html

¹⁴assignments/hw3.html

Day 2 Linear Transformations¹⁵ Standardized scores¹⁶

Day 3 Lab 3¹⁷

Week 4 (01/28-02/01)

Day 1 Density Curves¹⁸

The Normal Distribution¹⁹

Quiz 3²⁰

Day 2 Class cancelled

Day 3 Lab 4²¹ HW4 due²²

Week 5 (02/04-02/08)

Day 1 Relationships between two variables²³ HW5 due²⁴

Day 2 Scatterplots and Correlation²⁵ HW6 due²⁶

Day 3 MIDTERM (study guide²⁷)

Week 6 (02/11-02/15)

Day 1 Scatterplots and Correlation (cont) 28 General Theory on Modeling and Data Fitting 29 Quiz 4^{30}

¹⁵notes/linear transformations.html

¹⁶notes/linear transformations.html

¹⁷https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html

¹⁸notes/density_curves.html

¹⁹notes/normal_distribution.html

²⁰https://moodle.hanover.edu/mod/quiz/view.php?id=14005

²¹https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html

²²assignments/hw4.html

²³notes/relationships.html

²⁴assignments/hw5.html

²⁵notes/scatterplot_correlation.html

²⁶assignments/hw6.html

²⁷notes/midterm1 study guide.html

²⁸notes/scatterplot correlation.html

²⁹notes/modeling_general.html

³⁰ https://moodle.hanover.edu/mod/quiz/view.php?id=14010

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Day 2 Linear Models and Regression Lines<sup>31</sup>
Day 3 HW7 due<sup>32</sup>
      Lab 5<sup>33</sup>
Week 7 (02/18-02/22)
Day 1 The question of causation<sup>34</sup>
      Quiz 5<sup>35</sup>
Day 2 Introduction to Probability<sup>36</sup>
Day 3 Lab 6<sup>37</sup>
      HW8 due<sup>38</sup>
Week 8 (02/25-03/01)
WINTER BREAK
Week 9 (03/04-03/08)
Day 1 Introduction to Probability<sup>39</sup>
       Conditional Probability<sup>40</sup>
Day 2 Conditional Probability<sup>41</sup>
       Probability rules<sup>42</sup>
      Quiz 643
Day 3 Lab 7<sup>44</sup>
  <sup>31</sup>notes/linear_regression.html
  <sup>32</sup>assignments/hw7.html
  <sup>33</sup>https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html
  <sup>34</sup>notes/correlation_causation.html
  35https://moodle.hanover.edu/mod/quiz/view.php?id=14011
  <sup>36</sup>notes/probability_intro.html
  <sup>37</sup>https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html
  <sup>38</sup>assignments/hw8.html
  <sup>39</sup>notes/probability_intro.html
  <sup>40</sup>notes/probability_conditional.html
  <sup>41</sup>notes/probability_conditional.html
  <sup>42</sup>notes/probability rules.html
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43https://moodle.hanover.edu/mod/quiz/view.php?id=14014

44https://hanoverstatslabs.github.io/resources/labs/Lab7Instructions.html

Week 10 (03/11-03/15)

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Day 1 Independent Events<sup>45</sup>
Tree Diagrams<sup>46</sup>
HW9 due<sup>47</sup>
Quiz 7<sup>48</sup>

Day 2 Review
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HW11 due⁴⁹

Day 3 MIDTERM (study guide⁵⁰)

Week 11 (03/18-03/22)

```
Day 1 Random Variables<sup>51</sup>
HW10 due<sup>52</sup>
Day 2 Random Variables (cont)<sup>53</sup>
Day 3 Lab 8<sup>54</sup>
HW12 due<sup>55</sup>
```

Week 12 (03/25-03/29)

Day 1 The Binomial Setting and Distribution 56 Quiz 8^{57}

Day 2 Mean and Standard Deviation of Random Variables⁵⁸ HW13 due⁵⁹

Day 3 Project work

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45notes/independent_events.html
46notes/decision_trees.html
47assignments/hw9.html
48https://moodle.hanover.edu/mod/quiz/view.php?id=14018
49assignments/hw11.html
50notes/midterm2_study_guide.html
51notes/random_variables.html
52assignments/hw10.html
53notes/random_variables.html
54https://hanoverstatslabs.github.io/resources/labs/Lab8Instructions.html
55assignments/hw12.html
56notes/binomial.html
57https://moodle.hanover.edu/mod/quiz/view.php?id=14020
58notes/rv_mean.html
59assignments/hw13.html
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Week 13 (04/01-04/05)

```
    Day 1 Combining Random Variables<sup>60</sup>
        Mean and Standard Deviation of the Binomial<sup>61</sup>
        Binomial: Approximating by Normal<sup>62</sup>
        Quiz 9<sup>63</sup>

    Day 2 The Sample Mean / IID Setting<sup>64</sup>
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Day 2 The Sample Mean / IID Setting⁶⁴

HW14 due⁶⁵

Quiz 10⁶⁶

Day 3 Inference I: Confidence Intervals⁶⁷ HW15 due⁶⁸

Week 14 (04/08-04/12)

```
Day 1 Inference II: Hypothesis Tests<sup>69</sup>
HW16 due<sup>70</sup>
Quiz 11<sup>71</sup>
```

Day 2 TBA HW17 due⁷²

Day 3 Presentations

⁶⁰ notes/rv_combine.html
61 notes/binomial_mean.html

⁶²notes/binomial_mean.html

⁶³https://moodle.hanover.edu/mod/quiz/view.php?id=14023

⁶⁴notes/iid_setting.html

⁶⁵assignments/hw14.html

⁶⁶https://moodle.hanover.edu/mod/quiz/view.php?id=14026

⁶⁷notes/confidence_intervals.html

⁶⁸assignments/hw15.html

⁶⁹notes/hypothesis tests.html

⁷⁰assignments/hw16.html

⁷¹https://moodle.hanover.edu/mod/quiz/view.php?id=14028

⁷²assignments/hw17.html