

# Schedule

A week-by-week breakdown of the material.

## Week 1 (01/07-1/11)

**Day 1** A taste of statistics<sup>1</sup>

Basic Terminology<sup>2</sup>

**Day 2** HW1 due Fri<sup>3</sup>

Visualizing Variables<sup>4</sup>

Quiz 1 due Sun<sup>5</sup>

**Day 3** Lab 1<sup>6</sup>

## Week 2 (01/14-09/18)

**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 Mon of week 3<sup>11</sup>

**Day 2** No class

**Day 3** Lab 2<sup>12</sup>

## Week 3 (01/21-01/25)

**Day 1** Data Collection<sup>13</sup>

Linear Transformations<sup>14</sup>

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<sup>1</sup>[notes/taste.html](#)

<sup>2</sup>[notes/basic\\_terminology.html](#)

<sup>3</sup>[assignments/hw1.html](#)

<sup>4</sup>[notes/visualizing\\_distributions.html](#)

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

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

<sup>7</sup>[notes/percentiles.html](#)

<sup>8</sup>[notes/measures\\_center.html](#)

<sup>9</sup>[notes/measures\\_spread.html](#)

<sup>10</sup>[assignments/hw2.html](#)

<sup>11</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14002>

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

<sup>13</sup>[notes/data\\_collection.html](#)

<sup>14</sup>[notes/linear\\_transformations.html](#)

HW3 due<sup>15</sup>

**Day 2** Standardized scores<sup>16</sup>

Density Curves<sup>17</sup>

**Day 3** Lab 3<sup>18</sup>

## **Week 4 (01/28-02/01)**

**Day 1** The Normal Distribution<sup>19</sup>

HW4 due<sup>20</sup>

**Day 2** The Normal Distribution (cont)<sup>21</sup>

Quiz 3<sup>22</sup>

**Day 3** Lab 4<sup>23</sup>

HW5 due<sup>24</sup>

## **Week 5 (02/04-02/08)**

**Day 1** Relationships between two variables<sup>25</sup>

HW6 due<sup>26</sup>

**Day 2** Scatterplots and Correlation<sup>27</sup>

Quiz 4<sup>28</sup>

**Day 3 MIDTERM** (study guide<sup>29</sup>)

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<sup>15</sup>[assignments/hw3.html](#)

<sup>16</sup>[notes/linear\\_transformations.html](#)

<sup>17</sup>[notes/density\\_curves.html](#)

<sup>18</sup><https://hanoverstatslabs.github.io/resources/labs/Lab3Instructions.html>

<sup>19</sup>[notes/normal\\_distribution.html](#)

<sup>20</sup>[assignments/hw4.html](#)

<sup>21</sup>[notes/normal\\_distribution.html](#)

<sup>22</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14005>

<sup>23</sup><https://hanoverstatslabs.github.io/resources/labs/Lab4Instructions.html>

<sup>24</sup>[assignments/hw5.html](#)

<sup>25</sup>[notes/relationships.html](#)

<sup>26</sup>[assignments/hw6.html](#)

<sup>27</sup>[notes/scatterplot\\_correlation.html](#)

<sup>28</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14010>

<sup>29</sup>[notes/midterm1\\_study\\_guide.html](#)

## Week 6 (02/11-02/15)

**Day 1** General Theory on Modeling and Data Fitting<sup>30</sup>

Linear Models and Regression Lines<sup>31</sup>

HW7 due<sup>32</sup>

**Day 2** Linear Models and Regression Lines (cont)<sup>33</sup>

**Day 3** Lab 5<sup>34</sup>

## Week 7 (02/18-02/22)

**Day 1** The question of causation<sup>35</sup>

Quiz 5<sup>36</sup>

**Day 2** Introduction to Probability<sup>37</sup>

**Day 3** Lab 6<sup>38</sup>

## Week 8 (02/25-03/01)

WINTER BREAK

## Week 9 (03/04-03/08)

**Day 1** Conditional Probability<sup>39</sup>

HW8 due<sup>40</sup>

**Day 2** Probability rules<sup>41</sup>

Independent Events<sup>42</sup>

Quiz 6<sup>43</sup>

**Day 3** Lab 7<sup>44</sup>

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<sup>30</sup>[notes/modeling\\_general.html](#)

<sup>31</sup>[notes/linear\\_regression.html](#)

<sup>32</sup>[assignments/hw7.html](#)

<sup>33</sup>[notes/linear\\_regression.html](#)

<sup>34</sup><https://hanoverstatslabs.github.io/resources/labs/Lab5Instructions.html>

<sup>35</sup>[notes/correlation\\_causation.html](#)

<sup>36</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14011>

<sup>37</sup>[notes/probability\\_intro.html](#)

<sup>38</sup><https://hanoverstatslabs.github.io/resources/labs/Lab6Instructions.html>

<sup>39</sup>[notes/probability\\_conditional.html](#)

<sup>40</sup>[assignments/hw8.html](#)

<sup>41</sup>[notes/probability\\_rules.html](#)

<sup>42</sup>[notes/independent\\_events.html](#)

<sup>43</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14014>

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

## Week 10 (03/11-03/15)

### Day 1 Tree Diagrams<sup>45</sup>

HW9 due<sup>46</sup>

Quiz 7<sup>47</sup>

### Day 2 Review

HW11 due<sup>48</sup>

### Day 3 MIDTERM (study guide<sup>49</sup>)

## Week 11 (03/18-03/22)

### Day 1 Random Variables<sup>50</sup>

HW10 due<sup>51</sup>

### Day 2 Random Variables (cont)<sup>52</sup>

### Day 3 Lab 8<sup>53</sup>

HW12 due<sup>54</sup>

## Week 12 (03/25-03/29)

### Day 1 The Binomial Setting and Distribution<sup>55</sup>

Quiz 8<sup>56</sup>

### Day 2 Mean and Standard Deviation of Random Variables<sup>57</sup>

HW13 due<sup>58</sup>

### Day 3 Project work

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<sup>45</sup>[notes/decision\\_trees.html](#)

<sup>46</sup>[assignments/hw9.html](#)

<sup>47</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14018>

<sup>48</sup>[assignments/hw11.html](#)

<sup>49</sup>[notes/midterm2\\_study\\_guide.html](#)

<sup>50</sup>[notes/random\\_variables.html](#)

<sup>51</sup>[assignments/hw10.html](#)

<sup>52</sup>[notes/random\\_variables.html](#)

<sup>53</sup><https://hanoverstatslabs.github.io/resources/labs/Lab8Instructions.html>

<sup>54</sup>[assignments/hw12.html](#)

<sup>55</sup>[notes/binomial.html](#)

<sup>56</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14020>

<sup>57</sup>[notes/rv\\_mean.html](#)

<sup>58</sup>[assignments/hw13.html](#)

## Week 13 (04/01-04/05)

### Day 1 Combining Random Variables<sup>59</sup>

Mean and Standard Deviation of the Binomial<sup>60</sup>

Binomial: Approximating by Normal<sup>61</sup>

Quiz 9<sup>62</sup>

### Day 2 The Sample Mean / IID Setting<sup>63</sup>

HW14 due<sup>64</sup>

Quiz 10<sup>65</sup>

### Day 3 Inference I: Confidence Intervals<sup>66</sup>

HW15 due<sup>67</sup>

## Week 14 (04/08-04/12)

### Day 1 Inference II: Hypothesis Tests<sup>68</sup>

HW16 due<sup>69</sup>

Quiz 11<sup>70</sup>

### Day 2 TBA

HW17 due<sup>71</sup>

### Day 3 Presentations

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<sup>59</sup>[notes/rv\\_combine.html](#)

<sup>60</sup>[notes/binomial\\_mean.html](#)

<sup>61</sup>[notes/binomial\\_mean.html](#)

<sup>62</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14023>

<sup>63</sup>[notes/iid\\_setting.html](#)

<sup>64</sup>[assignments/hw14.html](#)

<sup>65</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14026>

<sup>66</sup>[notes/confidence\\_intervals.html](#)

<sup>67</sup>[assignments/hw15.html](#)

<sup>68</sup>[notes/hypothesis\\_tests.html](#)

<sup>69</sup>[assignments/hw16.html](#)

<sup>70</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=14028>

<sup>71</sup>[assignments/hw17.html](#)