

# Schedule

A week-by-week breakdown of the material.

## Week 1 (01/05-01/09)

**Day 1** Basic Terminology<sup>1</sup>

**Day 2** Lab 1<sup>2</sup>

**Day 3** Visualizing Variables<sup>3</sup>

**Day 4** Percentiles<sup>4</sup>

## Week 2 (01/12-01/16)

**Day 1** Measures of Center<sup>5</sup>

Measures of Spread<sup>6</sup>

**Day 2** Lab 2<sup>7</sup>

**Day 3** Linear Transformations<sup>8</sup>

Density Curves<sup>9</sup>

**Day 4** The Normal Distribution<sup>10</sup>

## Week 3 (01/19-01/23)

**Day 1** Relationships between two variables<sup>11</sup>

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

**Day 3** Scatterplots and Correlation<sup>13</sup>

**Day 4** General Theory on Modeling and Data Fitting<sup>14</sup>

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<sup>1</sup>[notes/basic\\_terminology.html](https://www.stat.columbia.edu/gelman/notes/basic_terminology.html)

<sup>2</sup>[labs/1.html](https://www.stat.columbia.edu/gelman/labs/1.html)

<sup>3</sup>[notes/visualizing\\_distributions.html](https://www.stat.columbia.edu/gelman/notes/visualizing_distributions.html)

<sup>4</sup>[notes/percentiles.html](https://www.stat.columbia.edu/gelman/notes/percentiles.html)

<sup>5</sup>[notes/measures\\_center.html](https://www.stat.columbia.edu/gelman/notes/measures_center.html)

<sup>6</sup>[notes/measures\\_spread.html](https://www.stat.columbia.edu/gelman/notes/measures_spread.html)

<sup>7</sup>[labs/2.html](https://www.stat.columbia.edu/gelman/labs/2.html)

<sup>8</sup>[notes/linear\\_transformations.html](https://www.stat.columbia.edu/gelman/notes/linear_transformations.html)

<sup>9</sup>[notes/density\\_curves.html](https://www.stat.columbia.edu/gelman/notes/density_curves.html)

<sup>10</sup>[notes/normal\\_distribution.html](https://www.stat.columbia.edu/gelman/notes/normal_distribution.html)

<sup>11</sup>[notes/relationships.html](https://www.stat.columbia.edu/gelman/notes/relationships.html)

<sup>12</sup>[labs/3.html](https://www.stat.columbia.edu/gelman/labs/3.html)

<sup>13</sup>[notes/scatterplot\\_correlation.html](https://www.stat.columbia.edu/gelman/notes/scatterplot_correlation.html)

<sup>14</sup>[notes/modeling\\_general.html](https://www.stat.columbia.edu/gelman/notes/modeling_general.html)

## **Week 4 (01/26-01/30)**

**Day 1** Linear Models and Regression Lines<sup>15</sup>

**Day 2** Lab 4<sup>16</sup>

**Day 3** The question of causation<sup>17</sup>

**Day 4** Introduction to Probability<sup>18</sup>

## **Week 5 (02/02-02/06)**

**Day 1** Review

**Day 2** **MIDTERM**

**Day 3** Introduction to Probability (cont)<sup>19</sup>

**Day 4** Independent Events<sup>20</sup>

## **Week 6 (02/09-02/13)**

**Day 1** Probability rules<sup>21</sup>

**Day 2** Catchup

**Day 3** Tree Diagrams<sup>22</sup>

**Day 4** Tree Diagrams (cont)<sup>23</sup>

## **Week 7 (02/16-02/20)**

**Day 1** Snow day

**Day 2** Probability Practice

**Day 3** Probability Practice

**Day 4** Probability Practice

## **Week 8 (02/23-02/27)**

BREAK

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<sup>15</sup>[notes/linear\\_regression.html](#)

<sup>16</sup>[labs/4.html](#)

<sup>17</sup>[notes/correlation\\_causation.html](#)

<sup>18</sup>[notes/probability\\_intro.html](#)

<sup>19</sup>[notes/probability\\_intro.html](#)

<sup>20</sup>[notes/independent\\_events.html](#)

<sup>21</sup>[notes/probability\\_rules.html](#)

<sup>22</sup>[notes/decision\\_trees.html](#)

<sup>23</sup>[notes/decision\\_trees.html](#)

## Week 9 (03/02-03/06)

**Day 1** Random Variables<sup>24</sup>

**Day 2** Lab Practice

**Day 3** Snow Day

**Day 4** The Binomial Setting and Distribution<sup>25</sup>

## Week 10 (03/09-03/13)

**Day 1** Mean and Standard Deviation of Random Variables<sup>26</sup>

**Day 2** Mean and Standard Deviation of Random Variables (cont)<sup>27</sup>

**Day 3** Combining Random Variables<sup>28</sup>

**Day 4** Combining Random Variables (cont)<sup>29</sup>

## Week 11 (03/16-03/20)

**Day 1** Review / Catchup

**Day 2** Lab: Work on Projects<sup>30</sup>

**Day 3** **MIDTERM** (study guide<sup>31</sup>)

**Day 4** Mean and Standard Deviation of the Binomial<sup>32</sup>

## Week 12 (03/23-03/27)

**Day 1** The Sample Mean / IID Setting<sup>33</sup>

**Day 2** TBA

**Day 3** TBA

**Day 4** TBA

## Week 13 (03/30-04/03)

**Day 1** TBA

**Day 2** TBA

**Day 3** TBA

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<sup>24</sup>[notes/random\\_variables.html](#)

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

<sup>26</sup>[notes/rv\\_mean.html](#)

<sup>27</sup>[notes/rv\\_mean.html](#)

<sup>28</sup>[notes/rv\\_combine.html](#)

<sup>29</sup>[notes/rv\\_combine.html](#)

<sup>30</sup>[labs/projectAnalysisSteps.html](#)

<sup>31</sup>[notes/midterm2\\_study\\_guide.html](#)

<sup>32</sup>[notes/binomial\\_mean.html](#)

<sup>33</sup>[notes/iid\\_setting.html](#)

**Day 4** TBA

**Week 14 (04/06-04/10)**

**Day 1** TBA

**Day 2** TBA

**Day 3** TBA

**Day 4** TBA