<table>
<thead>
<tr>
<th>Monday</th>
<th>Wednesday</th>
<th>Friday</th>
</tr>
</thead>
</table>
| **Jan. 5**  
Intro + 1.1  
(Language & logic) | **Jan. 7**  
1.2, I  
(Truth values & tables) | **Jan. 9**  
1.2, II  
(Truth values & tables) |
| **Jan. 12**  
1.3  
(Sets, variables, statements) | **Jan. 14**  
1.4  
(Set operations) | **Jan. 16**  
1.5  
(Implications; equivalences) |
| **Jan. 19**  
Holiday | **Jan. 21**  
2.1, 2.2  
(Quantifiers) | **Jan. 23**  
2.3  
(More on Sets) |
| **Jan. 26**  
3.1  
(Proofs & types of statements to prove) | **Jan. 28**  
3.2, 3.3  
(Contrapositive and quantifiers) | **Jan. 30**  
Off textbook  
(Contradiction) |
| **Feb. 2**  
3.4, 3.5  
(“Or”, “And”, cases) | **Feb. 4**  
3.6  
(Existence and uniqueness) | **Feb. 6**  
6.1  
(Induction) |
| **Feb. 9**  
Review | **Feb. 11**  
MIDTERM  
(up to & including 6.1) | **Feb. 13**  
6.3  
(Recursion) |
| **Feb. 16**  
Holiday | **Feb. 18**  
6.4  
(Strong Induction) | **Feb. 20**  
A bit off textbook  
(5.1)  
(Functions) |
| **Feb. 23**  
5.2  
(One-to-one, onto) | **Feb. 25**  
5.3  
(Inverses of functions) | **Feb. 27**  
Off textbook  
(Binomial coefficients) |
| **Mar. 2**  
Off textbook  
(Inclusion/Exclusion Principle) | **Mar. 4**  
Off textbook  
(Counting functions; more counting) | **Mar. 6**  
7.1  
(Set sizes, finite & infinite) |

HW 1 DUE  
HW 2 DUE  
HW 3 DUE  
HW 4 DUE  
HW 5 DUE  
HW 6 DUE  
HW 7 DUE
<table>
<thead>
<tr>
<th>Monday</th>
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<tbody>
<tr>
<td>Mar. 9</td>
<td>Mar. 11</td>
<td>Mar. 13</td>
</tr>
<tr>
<td>7.2</td>
<td>~7.3</td>
<td>Review</td>
</tr>
<tr>
<td>(The Cantor-Hilbert hotel; Q and R)</td>
<td>(A little about cardinalities; catch-up)</td>
<td><strong>Ungraded HW 8 deadline</strong></td>
</tr>
</tbody>
</table>

**Final Exam: Monday, Mar 16, 8:30-10:20am, SMI 313**

Legend:
- items colored **blue** are not necessarily following the textbook, and typed-up notes will be provided for those particular lectures
- items colored **red** are meant to emphasize HW deadlines and exams