

<u>Aug 31</u> Review: Exponentials and logarithms	<u>Sep 2</u> Review: Integration	<u>Sep 4</u> <i>H1 Due</i> Review: Limits
<u>Sep 7</u> LABOR DAY	<u>Sep 9</u> <i>H2 Due</i> Sequences <i>12.1</i>	<u>Sep 11</u> Series <i>12.2</i>
<u>Sep 14</u> Integral test for convergence <i>12.3</i>	<u>Sep 16</u> <i>H3 Due</i> Comparison tests <i>12.4</i>	<u>Sep 18</u> REVIEW
<u>Sep 21</u> Alternating series <i>12.5</i>	<u>Sep 23</u> <i>H4 Due</i> Absolute convergence, ratio test <i>12.6</i>	<u>Sep 25</u> Convergence testing strategies <i>12.7</i>
<u>Sep 28</u> Power series <i>12.8</i>	<u>Sep 30</u> <i>H5 Due</i> REVIEW	<u>Oct 2</u> TEST #1
<u>Oct 5</u> Power series as functions <i>12.9</i>	<u>Oct 7</u> Taylor and Maclaurin series <i>12.10</i>	<u>Oct 9</u> <i>H6 Due</i> Taylor and Maclaurin series <i>12.10</i>
<u>Oct 12</u> FALL BREAK	<u>Oct 14</u> FALL BREAK	<u>Oct 16</u> FALL BREAK
<u>Oct 19</u> Applications of Taylor polynomials <i>12.11</i>	<u>Oct 21</u> <i>H7 Due</i> Complex numbers: $re^{i\theta}$ —	<u>Oct 23</u> Complex numbers: $e^{i\pi} = -1$ —
<u>Oct 26</u> Complex numbers: applications —	<u>Oct 28</u> <i>H8 Due</i> REVIEW	<u>Oct 31</u> TEST #2
<u>Nov 2</u> Generating functions: introduction —	<u>Nov 4</u> Generating functions in combinatorics —	<u>Nov 6</u> <i>H9 Due</i> Generating functions in probability —
<u>Nov 9</u> Recurrence relations —	<u>Nov 11</u> <i>H10 Due</i> Recurrence relations —	<u>Nov 13</u> Polynomials and finite differences —
<u>Nov 16</u> Polynomials and finite differences —	<u>Nov 18</u> <i>H11 Due</i> Partitions of integers —	<u>Nov 20</u> Partitions of integers —
<u>Nov 23</u> Asymptotics —	<u>Nov 25</u> Asymptotics —	<u>Nov 27</u> THANKSGIVING
<u>Nov 30</u> Random walks and Markov chains —	<u>Dec 2</u> <i>H12 Due</i> Random walks and Markov chains —	<u>Dec 4</u> Random walks and Markov chains —
<u>Dec 7</u> TEST #3 due (take-home) —	<u>Dec 9</u> <i>H13 Due</i> Miscellaneous topics	<u>Dec 11</u> REVIEW