

CS 106J Calendar

Monday	Wednesday	Friday
<p>April 3</p> <p>Administration Course overview Meet Karel the Robot</p>	<p>5</p> <p>Simple Karel programs Control structures in Karel</p> <p>Read: Sections 1.1-1.3</p>	<p>7</p> <p>Problem-solving in Karel Program decomposition The idea of an algorithm</p> <p>Read: Sections 1.4-1.5</p>
<p>10</p> <p>Programming by example Variables and values Arithmetic expressions Functions</p> <p>Read: Sections 2.1-2.4</p>	<p>12</p> <p>Strings and concatenation Simple graphics</p> <p>Read: Sections 2.5-2.6</p>	<p>14</p> <p>Control statements Boolean data</p> <p>Read: Sections 3.1-3.5</p>
<p>17</p> <p>Arguments and parameters Libraries Random numbers</p> <p>Read: Sections 4.1-4.2 Due: HW #1 (Karel)</p>	<p>19</p> <p>The mechanics of functions Decomposition</p> <p>Read: Sections 4.3-4.4 Due: Karel contest</p>	<p>21</p> <p>First-class functions Event-driven programming Responding to mouse events</p> <p>Read: Sections 5.1-5.4</p>
<p>24</p> <p>Simple animation Timers</p> <p>Read: Section 5.5 Due: HW #2 (Simple JS)</p>	<p>26</p> <p>The <code>GArc</code> class The <code>GPolygon</code> class The <code>GCompound</code> class</p> <p>Read: Section 5.6</p>	<p>28</p> <p>Binary representation Representing characters</p> <p>Read: Section 6.1</p>
<p>May 1</p> <p>JavaScript's <code>string</code> class Common string patterns</p> <p>Read: Section 6.2-6.3</p>	<p>3</p> <p>Problem-solving with strings String applications</p> <p>Read: Section 6.4</p>	<p>5</p> <p>Cryptography The <code>GLabel</code> class</p> <p>Read: Section 6.5 Due: HW #3 (Breakout)</p>

Monday	Wednesday	Friday
<p>May 8</p> <p>Debugging strategies</p> <div style="border: 1px solid black; padding: 5px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">Midterm exam Tuesday, May 9 3:30P.M. or 7:00P.M.</p> </div> <p>Due: Graphics contest</p>	<p>10</p> <p>Simple arrays and files</p> <p>Read: Sections 7.1-7.2</p>	<p>12</p> <p>Using arrays for tabulation</p> <p>Read: Section 7.3</p>
<p>15</p> <p>Multidimensional arrays Pixel arrays The GImage class</p> <p>Read: Sections 7.4-7.5 Due: HW #4 (HangKarel)</p>	<p>17</p> <p>Objects as aggregates</p> <p>Read: Sections 8.1-8.2</p>	<p>19</p> <p>JavaScript and OOP Libraries and interfaces Defining classes and methods</p> <p>Read: Sections 8.3-8.5</p>
<p>22</p> <p>Objects as maps</p> <p>Read: Section 8.6</p>	<p>24</p> <p>Large-scale data structures Data-driven programs</p> <p>Read: Section 8.7</p>	<p>26</p> <p>Overview of Adventure!</p> <p>Read: Adventure handout Due: HW #5 (Yahtzee)</p>
<p>29</p> <p>Memorial Day</p> <p>(no class)</p>	<p>31</p> <p>JavaScript and the web</p> <p>Read: (handouts for the day)</p>	<p>June 2</p> <p>Using web interactors</p> <p>Read: (handouts for the day)</p>
<p>5</p> <p>Looking ahead</p> <p>Read: (handouts for the day)</p>	<p>7</p> <p>Frontiers of computing (optional)</p> <p>Due: HW #6 (Adventure) Due: Adventure contest</p>	<p>9</p> <p>(no class)</p>
<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">Review Session Monday, June 12 7:00–9:00P.M.</p> </div>	<div style="border: 1px solid black; padding: 10px; margin: 10px auto; width: fit-content;"> <p style="text-align: center;">Final Exam Wednesday, June 14 8:30–11:30A.M.</p> </div>	