

# Schedule

A week-by-week breakdown of the material.

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

- Day 1
  - History of Javascript<sup>1</sup>
  - Components of a Web Page<sup>2</sup>
  - How to run Javascript<sup>3</sup>
  - Numbers in Javascript<sup>4</sup>
  - Local and Global Variables<sup>5</sup>
  - Basics of Arrays<sup>6</sup>
- Day 2
  - Basics of Objects: Dictionaries<sup>7</sup>
  - Equality in Javascript<sup>8</sup>
  - Strings and Regular Expressions<sup>9</sup>
  - Function basics<sup>10</sup>
  - Lab 0<sup>11</sup>
  - Quiz 1<sup>12</sup>

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

- Day 1
  - Functions as values<sup>13</sup>
  - Functions as closures<sup>14</sup>
- Day 2
  - Functions as a means for creating a scope/context<sup>15</sup>

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<sup>1</sup>[notes/history.html](#)  
<sup>2</sup>[notes/page\\_components.html](#)  
<sup>3</sup>[notes/how\\_to\\_run.html](#)  
<sup>4</sup>[notes/numbers.html](#)  
<sup>5</sup>[notes/local\\_vs\\_global.html](#)  
<sup>6</sup>[notes/array\\_basics.html](#)  
<sup>7</sup>[notes/object\\_basics.html](#)  
<sup>8</sup>[notes/equality.html](#)  
<sup>9</sup>[notes/strings\\_and\\_re.html](#)  
<sup>10</sup>[notes/functions\\_basic.html](#)  
<sup>11</sup>[labs/0.html](#)  
<sup>12</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=32970>  
<sup>13</sup>[notes/function\\_values.html](#)  
<sup>14</sup>[notes/function\\_closures.html](#)  
<sup>15</sup>[notes/functions\\_for\\_scope.html](#)

- Array Collection methods<sup>16</sup>
- Function Usage Patterns<sup>17</sup>
- Quiz 2<sup>18</sup>
- Lab 1<sup>19</sup>

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

- Day 1
  - Overview of Software Development Practices<sup>20</sup>
  - Basics of Version Control<sup>21</sup>
  - Git basics<sup>22</sup>
  - Review of Git commands<sup>23</sup>
  - GitHub basics<sup>24</sup>
- Day 2
  - Remotes and Branches<sup>25</sup>
  - GitHub Workflow<sup>26</sup>
  - Overall Project Workflow<sup>27</sup>
  - Methods in objects and the need for this<sup>28</sup>
  - Function call forms and the value of this<sup>29</sup>

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

- Day 1
  - The DRY principle<sup>30</sup>
  - Object creation and prototypes<sup>31</sup>
- Day 2
  - Different stack implementations<sup>32</sup>

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<sup>16</sup>[notes/array\\_collection\\_methods.html](#)

<sup>17</sup>[notes/function\\_usage\\_patterns.html](#)

<sup>18</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=33676>

<sup>19</sup>[labs/1.html](#)

<sup>20</sup>[notes/dev\\_overview.html](#)

<sup>21</sup>[notes/git\\_version\\_control.html](#)

<sup>22</sup>[notes/git\\_basics.html](#)

<sup>23</sup>[notes/git\\_commands\\_review.html](#)

<sup>24</sup>[notes/github\\_basics.html](#)

<sup>25</sup>[notes/git\\_remotes\\_branches.html](#)

<sup>26</sup>[notes/github\\_workflow.html](#)

<sup>27</sup>[notes/project\\_workflow.html](#)

<sup>28</sup>[notes/object\\_methods.html](#)

<sup>29</sup>[notes/function\\_calls\\_and\\_this.html](#)

<sup>30</sup>[notes/dry.html](#)

<sup>31</sup>[notes/object\\_creation\\_prototypes.html](#)

<sup>32</sup>[notes/stack\\_various.html](#)

- “Class” construction examples<sup>33</sup>
- Setting up a second remote<sup>34</sup>
- Testing Basics<sup>35</sup>

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

- Day 1
  - Survey of HTML<sup>36</sup>
  - Survey of CSS<sup>37</sup>
  - A sample page<sup>38</sup>
- Day 2
  - Introduction to the DOM (Document Object Model)<sup>39</sup>
  - Introduction to jQuery<sup>40</sup>

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

- Day 1
  - Object properties<sup>41</sup>
  - Introduction to DOM Events<sup>42</sup>
  - Timers<sup>43</sup>
- Day 2
  - TaskApp: Building a Web App<sup>44</sup>

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

- Day 1
  - TaskApp: Building a Web App<sup>45</sup>
- Day 2
  - TaskApp: Building a Web App<sup>46</sup>

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<sup>33</sup>[notes/class\\_construction.html](#)

<sup>34</sup>[notes/second\\_remote.html](#)

<sup>35</sup>[notes/testing\\_basics.html](#)

<sup>36</sup>[notes/html\\_survey.html](#)

<sup>37</sup>[notes/css\\_survey.html](#)

<sup>38</sup>[notes/sample\\_page.html](#)

<sup>39</sup>[notes/dom\\_intro.html](#)

<sup>40</sup>[notes/jquery\\_intro.html](#)

<sup>41</sup>[notes/object\\_properties.html](#)

<sup>42</sup>[notes/events\\_intro.html](#)

<sup>43</sup>[notes/events\\_timers.html](#)

<sup>44</sup>[notes/taskapp\\_setup.html](#)

<sup>45</sup>[notes/taskapp\\_setup.html](#)

<sup>46</sup>[notes/taskapp\\_setup.html](#)

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

BREAK

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

- Day 1
  - Assignment of Projects<sup>47</sup>
- Using Templates: Handlebars<sup>48</sup>
- Day 2
  - Work on Projects

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

- Day 1
  - Graphics in Javascript, SVG<sup>49</sup>
- Day 2
  - Custom Events: Observer, Publish/Subscribe<sup>50</sup>

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

- Day 1
  - Code Reviews<sup>51</sup>
- Day 2
  - Intro to Patterns: Iterator<sup>52</sup>
  - Lab 5: Collections<sup>53</sup>
  - Design Patterns<sup>54</sup>
  - Patterns of code reuse<sup>55</sup>
  - Pattern: Command<sup>56</sup>

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<sup>47</sup>[notes/project\\_descriptions.html](#)

<sup>48</sup>[notes/templates.html](#)

<sup>49</sup>[notes/graphics.html](#)

<sup>50</sup>[notes/custom\\_events.html](#)

<sup>51</sup>[notes/code\\_reviews.html](#)

<sup>52</sup>[notes/patterns\\_iterator.html](#)

<sup>53</sup>[labs/5.html](#)

<sup>54</sup>[notes/design\\_patterns.html](#)

<sup>55</sup>[notes/code\\_reuse.html](#)

<sup>56</sup>[notes/patterns\\_command.html](#)

- Pattern: Proxy<sup>57</sup>
- Pattern: Visitor<sup>58</sup>
- Pattern: Visitor (cont)<sup>59</sup>
- Module Patterns: Node/CommonJS modules<sup>60</sup>
- Using require.js<sup>61</sup>
- UMD modules<sup>62</sup>
- Lab 6: Double-Linked Lists, History<sup>63</sup>
- Pattern: Composite<sup>64</sup>
- Patterns: Adapter and Facade<sup>65</sup>
- MVC: Model-View-Controller<sup>66</sup>

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

- Day 1
  - Example of Designing a Model<sup>67</sup>
  - Basics of HTTP<sup>68</sup>
- Day 2
  - Introduction to XMLHttpRequest<sup>69</sup>
  - Projects progress

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

- Day 1
  - Projects progress
- Day 2
  - Projects progress

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<sup>57</sup>[notes/patterns\\_proxy.html](#)

<sup>58</sup>[notes/patterns\\_visitor.html](#)

<sup>59</sup>[notes/patterns\\_visitor.html](#)

<sup>60</sup>[notes/pattern\\_modules.html](#)

<sup>61</sup>[notes/requirejs.html](#)

<sup>62</sup>[notes/umd.html](#)

<sup>63</sup>[labs/6.html](#)

<sup>64</sup>[notes/patterns\\_composite.html](#)

<sup>65</sup>[notes/patterns\\_adapter\\_facade.html](#)

<sup>66</sup>[notes/pattern\\_mvc.html](#)

<sup>67</sup>[notes/design\\_example.html](#)

<sup>68</sup>[notes/http\\_intro.html](#)

<sup>69</sup>[notes/xhr\\_intro.html](#)

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

- Day 1
  - Projects progress
- Day 2
  - What we left out<sup>70</sup>

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<sup>70</sup>[notes/left\\_out.html](#)