

# 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>
  - Survey of HTML<sup>3</sup>
- Day 2
  - Survey of CSS<sup>4</sup>
  - A sample page<sup>5</sup>
  - Lab 1<sup>6</sup>
- Day 3
  - How to run Javascript<sup>7</sup>
  - Numbers in Javascript<sup>8</sup>
  - Local and Global Variables<sup>9</sup>
  - Basics of Arrays<sup>10</sup>

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

- Day 1
  - Basics of Objects: Object literals<sup>11</sup>
  - Equality in Javascript<sup>12</sup>
  - Strings and Regular Expressions<sup>13</sup>
  - Function basics<sup>14</sup>
  - Lab 2<sup>15</sup>

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<sup>1</sup>[notes/history.html](#)

<sup>2</sup>[notes/page\\_components.html](#)

<sup>3</sup>[notes/html\\_survey.html](#)

<sup>4</sup>[notes/css\\_survey.html](#)

<sup>5</sup>[notes/sample\\_page.html](#)

<sup>6</sup>[labs/1.html](#)

<sup>7</sup>[notes/how\\_to\\_run.html](#)

<sup>8</sup>[notes/numbers.html](#)

<sup>9</sup>[notes/local\\_vs\\_global.html](#)

<sup>10</sup>[notes/array\\_basics.html](#)

<sup>11</sup>[notes/object\\_basics.html](#)

<sup>12</sup>[notes/equality.html](#)

<sup>13</sup>[notes/strings\\_and\\_re.html](#)

<sup>14</sup>[notes/functions\\_basic.html](#)

<sup>15</sup>[labs/2.html](#)

- Quiz 1<sup>16</sup>
- Day 2
  - No class
- Day 3
  - No class

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

- Day 1
  - Functions as values<sup>17</sup>
  - Arrow Functions<sup>18</sup>
  - Array Collection methods<sup>19</sup>
- Day 2
  - Function Usage Patterns<sup>20</sup>
  - ES6 Classes<sup>21</sup>
  - Lab 3<sup>22</sup>
- Day 3
  - Function call forms and the value of this<sup>23</sup>
  - Introduction to the DOM (Document Object Model)<sup>24</sup>

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

- Day 1
  - Introduction to jQuery<sup>25</sup>
- Day 2
  - Practice with jQuery
- Day 3
  - Introduction to DOM Events<sup>26</sup>

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<sup>16</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=15591>

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

<sup>18</sup>[notes/function\\_arrow.html](#)

<sup>19</sup>[notes/array\\_collection\\_methods.html](#)

<sup>20</sup>[notes/function\\_usage\\_patterns.html](#)

<sup>21</sup>[notes/classes.html](#)

<sup>22</sup>[labs/3.html](#)

<sup>23</sup>[notes/function\\_calls\\_and\\_this.html](#)

<sup>24</sup>[notes/dom\\_intro.html](#)

<sup>25</sup>[notes/jquery\\_intro.html](#)

<sup>26</sup>[notes/events\\_intro.html](#)

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

- Day 1
  - Timers<sup>27</sup>
  - Overview of Software Development Practices<sup>28</sup>
- Day 2
  - Basics of Version Control<sup>29</sup>
- Day 3
  - Module Patterns: Node/CommonJS modules<sup>30</sup>
  - TaskApp: Building a Web App<sup>31</sup>

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

- Day 1
  - Testing Basics<sup>32</sup>
  - TaskApp (cont)<sup>33</sup>
- Day 2
  - Custom Events: Observer, Publish/Subscribe<sup>34</sup>
- Day 3
  - Observer pattern in TaskApp.

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

- Day 1
  - Boundaries: controller vs UI/view.
  - Test doubles in the controller.
- Day 2
  - ES6 features: String Templates, Symbols
  - ES6 features: Promises
  - Quiz 2<sup>35</sup>

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<sup>27</sup>[notes/events\\_timers.html](#)

<sup>28</sup>[notes/dev\\_overview.html](#)

<sup>29</sup>[notes/git\\_version\\_control.html](#)

<sup>30</sup>[notes/pattern\\_modules.html](#)

<sup>31</sup>[notes/taskapp\\_setup.html](#)

<sup>32</sup>[notes/testing\\_basics.html](#)

<sup>33</sup>[notes/taskapp\\_setup.html](#)

<sup>34</sup>[notes/custom\\_events.html](#)

<sup>35</sup><https://moodle.hanover.edu/mod/quiz/view.php?id=17430>

- Day 3
  - MIDTERM<sup>36</sup>

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

BREAK

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

- Day 1
  - Lab 4<sup>37</sup>
- Day 2
  - Assignment of Projects<sup>38</sup>
- Day 3
  - Using Templates: Handlebars<sup>39</sup>
  - Object creation and prototypes<sup>40</sup>

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

- Day 1
  - Object properties<sup>41</sup>
  - Graphics in Javascript, SVG<sup>42</sup>
- Day 2
  - Different stack implementations<sup>43</sup>
- Day 3
  - “Class” construction examples<sup>44</sup>

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

- Day 1
  - Documentation systems<sup>45</sup>

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<sup>36</sup>[midtermStudyGuide.html](#)

<sup>37</sup>[labs/4.html](#)

<sup>38</sup>[notes/project\\_descriptions.html](#)

<sup>39</sup>[notes/templates.html](#)

<sup>40</sup>[notes/object\\_creation\\_prototypes.html](#)

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

<sup>42</sup>[notes/graphics.html](#)

<sup>43</sup>[notes/stack\\_various.html](#)

<sup>44</sup>[notes/class\\_construction.html](#)

<sup>45</sup>[notes/documentation.html](#)

- Code Reviews<sup>46</sup>
- Day 2
- Day 3

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

- Day 1
- Day 2
  - Basics of HTTP<sup>47</sup>
  - Introduction to XMLHttpRequest<sup>48</sup>
- Day 3

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

- Day 1
  - Projects progress
- Day 2
  - Projects progress
- Day 3

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

- Day 1
  - Projects progress
- Day 2
  - What we left out<sup>49</sup>
  - Final Study Guide<sup>50</sup>
- Day 3

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<sup>46</sup>[notes/code\\_review.html](#)

<sup>47</sup>[notes/http\\_intro.html](#)

<sup>48</sup>[notes/xhr\\_intro.html](#)

<sup>49</sup>[notes/left\\_out.html](#)

<sup>50</sup>[notes/final\\_study\\_guide.html](#)

## Other topics we did not cover

- MVC: Model-View-Controller<sup>51</sup>
- 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>
- Pattern: Proxy<sup>57</sup>
- Pattern: Visitor<sup>58</sup>
- Pattern: Visitor (cont)<sup>59</sup>
- Lab 6: Double-Linked Lists, History<sup>60</sup>
- Pattern: Composite<sup>61</sup>
- Patterns: Adapter and Facade<sup>62</sup>
- Example of Designing a Model<sup>63</sup>

## Old notes

- Functions as closures<sup>64</sup>
- Functions as a means for creating a scope/context<sup>65</sup>
- Git basics<sup>66</sup>
- Review of Git commands<sup>67</sup>
- GitHub basics<sup>68</sup>
- Remotes and Branches<sup>69</sup>
- GitHub Workflow<sup>70</sup>
- Overall Project Workflow<sup>71</sup>
- Methods in objects and the need for this<sup>72</sup>

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<sup>51</sup>[notes/pattern\\_mvc.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](#)

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

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

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

<sup>60</sup>[labs/6.html](#)

<sup>61</sup>[notes/patterns\\_composite.html](#)

<sup>62</sup>[notes/patterns\\_adapter\\_facade.html](#)

<sup>63</sup>[notes/design\\_example.html](#)

<sup>64</sup>[notes/function\\_closures.html](#)

<sup>65</sup>[notes/functions\\_for\\_scope.html](#)

<sup>66</sup>[notes/git\\_basics.html](#)

<sup>67</sup>[notes/git\\_commands\\_review.html](#)

<sup>68</sup>[notes/github\\_basics.html](#)

<sup>69</sup>[notes/git\\_remotes\\_branches.html](#)

<sup>70</sup>[notes/github\\_workflow.html](#)

<sup>71</sup>[notes/project\\_workflow.html](#)

<sup>72</sup>[notes/object\\_methods.html](#)

- Setting up a second remote<sup>73</sup>
- AMD Modules<sup>74</sup>
- Using require.js<sup>75</sup>
- UMD modules<sup>76</sup>
- The Visitor Pattern and the need for it<sup>77</sup>
- The DRY principle<sup>78</sup>

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<sup>73</sup>[notes/second\\_remote.html](#)

<sup>74</sup>[notes/amd\\_modules.html](#)

<sup>75</sup>[notes/requirejs.html](#)

<sup>76</sup>[notes/umd.html](#)

<sup>77</sup>[notes/patterns\\_visitor.html](#)

<sup>78</sup>[notes/dry.html](#)