Schedule

A week-by-week breakdown of the material.

Week 1 (01/05-01/09)

- Day 1

    - History of Javascript[1]
    - Components of a Web Page[2]
    - Survey of HTML[3]

- Day 2

    - Survey of CSS[4]
    - A sample page[5]
    - Lab 1[6]

- Day 3

    - How to run Javascript[7]
    - Numbers in Javascript[8]
    - Local and Global Variables[9]
    - Basics of Arrays[10]

Week 2 (01/12-01/16)

- Day 1

    - Basics of Objects: Object literals[11]
    - Equality in Javascript[12]
    - Strings and Regular Expressions[13]
    - Function basics[14]
    - Lab 2[15]

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[1] notes/history.html
[2] notes/page_components.html
[3] notes/html_survey.html
[4] notes/css_survey.html
[5] notes/sample_page.html
[6] labs/1.html
[7] notes/how_to_run.html
[8] notes/numbers.html
[9] notes/local_vs_global.html
[10] notes/array_basics.html
[11] notes/object_basics.html
[12] notes/equality.html
[13] notes/strings_and_re.html
[14] notes/functions_basic.html
[15] labs/2.html

- – Quiz 1[16]
- Day 2
  - – No class
- Day 3
  - – No class

Week 3 (01/19-01/23)

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

Week 4 (01/26-01/30)

- Day 1
  - – Introduction to jQuery[25]
- Day 2
  - – Practice with jQuery
- Day 3
  - – Introduction to DOM Events[26]

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[16]https://moodle.hanover.edu/mod/quiz/view.php?id=15591
[17]notes/function_values.html
[18]notes/function_arrow.html
[19]notes/array_collection_methods.html
[20]notes/function_usage_patterns.html
[21]notes/classes.html
[22]labs/3.html
[23]notes/function_calls_and_this.html
[24]notes/dom_intro.html
[25]notes/jquery_intro.html
[26]notes/events_intro.html

Week 5 (02/02-02/06)

- Day 1
  - Timers[27]
  - Overview of Software Development Practices[28]

- Day 2
  - Basics of Version Control[29]

- Day 3
  - Module Patterns: Node/CommonJS modules[30]
  - TaskApp: Building a Web App[31]

Week 6 (02/09-02/13)

- Day 1
  - Testing Basics[32]
  - TaskApp (cont)[33]

- Day 2
  - Custom Events: Observer, Publish/Subscribe[34]

- 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[35]

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[27]notes/events_timers.html
[28]notes/dev_overview.html
[29]notes/git_version_control.html
[30]notes/pattern_modules.html
[31]notes/taskapp_setup.html
[32]notes/testing_basics.html
[33]notes/taskapp_setup.html
[34]notes/custom_events.html
[35]https://moodle.hanover.edu/mod/quiz/view.php?id=17430

- Day 3
    - MIDTERM[36]

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
    - Lab 4[37]
- Day 2
    - Assignment of Projects[38]
- Day 3
    - Using Templates: Handlebars[39]
    - The DRY principle[40]
    - Object properties[41]
    - Different stack implementations[42]
    - Object creation and prototypes[43]
    - "Class" construction examples[44]

Week 10 (03/09-03/13)

- Day 1
    - Graphics in Javascript, SVG[45]
- Day 2
- Day 3

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[36]midtermStudyGuide.html
[37]labs/4.html
[38]notes/project_descriptions.html
[39]notes/templates.html
[40]notes/dry.html
[41]notes/object_properties.html
[42]notes/stack_various.html
[43]notes/object_creation_prototypes.html
[44]notes/class_construction.html
[45]notes/graphics.html

Week 11 (03/16-03/20)

- Day 1

  - Documentation systems[46]
  - Code Reviews[47]

- Day 2
- Day 3

Week 12 (03/23-03/27)

- Day 1
- Day 2

  - Basics of HTTP[48]
  - Introduction to XMLHttpRequest[49]

- 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[50]
  - Final Study Guide[51]

- Day 3

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[46] notes/documentation.html
[47] notes/code_review.html
[48] notes/http_intro.html
[49] notes/xhr_intro.html
[50] notes/left_out.html
[51] notes/final_study_guide.html

Other topics we did not cover

- MVC: Model-View-Controller[52]
- Intro to Patterns: Iterator[53]
- Lab 5: Collections[54]
- Design Patterns[55]
- Patterns of code reuse[56]
- Pattern: Command[57]
- Pattern: Proxy[58]
- Pattern: Visitor[59]
- Pattern: Visitor (cont)[60]
- Lab 6: Double-Linked Lists, History[61]
- Pattern: Composite[62]
- Patterns: Adapter and Facade[63]
- Example of Designing a Model[64]

Old notes

- Functions as closures[65]
- Functions as a means for creating a scope/context[66]
- Git basics[67]
- Review of Git commands[68]
- GitHub basics[69]
- Remotes and Branches[70]
- GitHub Workflow[71]
- Overall Project Workflow[72]
- Methods in objects and the need for this[73]

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[52]notes/pattern_mvc.html
[53]notes/patterns_iterator.html
[54]labs/5.html
[55]notes/design_patterns.html
[56]notes/code_reuse.html
[57]notes/patterns_command.html
[58]notes/patterns_proxy.html
[59]notes/patterns_visitor.html
[60]notes/patterns_visitor.html
[61]labs/6.html
[62]notes/patterns_composite.html
[63]notes/patterns_adapter_facade.html
[64]notes/design_example.html
[65]notes/function_closures.html
[66]notes/functions_for_scope.html
[67]notes/git_basics.html
[68]notes/git_commands_review.html
[69]notes/github_basics.html
[70]notes/git_remotes_branches.html
[71]notes/github_workflow.html
[72]notes/project_workflow.html
[73]notes/object_methods.html

- Setting up a second remote[74]
- AMD Modules[75]
- Using require.js[76]
- UMD modules[77]
- The Visitor Pattern and the need for it[78]

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[74]notes/second_remote.html
[75]notes/amd_modules.html
[76]notes/requirejs.html
[77]notes/umd.html
[78]notes/patterns_visitor.html