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]
- Day 3
  - MIDTERM

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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=33676

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1

  - Assignment of Projects[36]
  - Using Templates: Handlebars[37]
  - The DRY principle[38]
  - Object properties[39]
  - Different stack implementations[40]
  - Object creation and prototypes[41]
  - "Class" construction examples[42]

- Day 2

  - Work on Projects

- Day 3

Week 10 (03/09-03/13)

- Day 1

  - Graphics in Javascript, SVG[43]

- Day 2
- Day 3

Week 11 (03/16-03/20)

- Day 1

  - Documentation systems[44]
  - Code Reviews[45]

- Day 2
- Day 3

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

Week 12 (03/23-03/27)

- Day 1
- Day 2

    - Basics of HTTP[46]
    - Introduction to XMLHttpRequest[47]

- 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[48]
    - Final Study Guide[49]

- Day 3

Other topics we did not cover

- MVC: Model-View-Controller[50]
- Intro to Patterns: Iterator[51]
- Lab 5: Collections[52]
- Design Patterns[53]

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[46]notes/http_intro.html
[47]notes/xhr_intro.html
[48]notes/left_out.html
[49]notes/final_study_guide.html
[50]notes/pattern_mvc.html
[51]notes/patterns_iterator.html
[52]labs/5.html
[53]notes/design_patterns.html

- Patterns of code reuse[54]
- Pattern: Command[55]
- Pattern: Proxy[56]
- Pattern: Visitor[57]
- Pattern: Visitor (cont)[58]
- Lab 6: Double-Linked Lists, History[59]
- Pattern: Composite[60]
- Patterns: Adapter and Facade[61]
- Example of Designing a Model[62]

Old notes

- Functions as closures[63]
- Functions as a means for creating a scope/context[64]
- Git basics[65]
- Review of Git commands[66]
- GitHub basics[67]
- Remotes and Branches[68]
- GitHub Workflow[69]
- Overall Project Workflow[70]
- Methods in objects and the need for this[71]
- Setting up a second remote[72]
- AMD Modules[73]
- Using require.js[74]
- UMD modules[75]
- The Visitor Pattern and the need for it[76]

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[54] notes/code_reuse.html
[55] notes/patterns_command.html
[56] notes/patterns_proxy.html
[57] notes/patterns_visitor.html
[58] notes/patterns_visitor.html
[59] labs/6.html
[60] notes/patterns_composite.html
[61] notes/patterns_adapter_facade.html
[62] notes/design_example.html
[63] notes/function_closures.html
[64] notes/functions_for_scope.html
[65] notes/git_basics.html
[66] notes/git_commands_review.html
[67] notes/github_basics.html
[68] notes/git_remotes_branches.html
[69] notes/github_workflow.html
[70] notes/project_workflow.html
[71] notes/object_methods.html
[72] notes/second_remote.html
[73] notes/amd_modules.html
[74] notes/requirejs.html
[75] notes/umd.html
[76] notes/patterns_visitor.html