

Schedule

A week-by-week breakdown of the material.

Week 1 (01/05-01/09)

- Day 1
 - History of Javascript¹
 - Components of a Web Page²
 - Survey of HTML³
 - Survey of CSS⁴
 - A sample page⁵
- Day 2
 - How to run Javascript⁶
 - Numbers in Javascript⁷
 - Local and Global Variables⁸
 - Basics of Arrays⁹
- Day 3
 - Basics of Objects: Dictionaries¹⁰
 - Equality in Javascript¹¹
 - Strings and Regular Expressions¹²
 - Function basics¹³
 - Lab 0¹⁴
 - Quiz 1¹⁵

Week 2 (01/12-01/16)

- Day 1

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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[notes/how_to_run.html](#)
 - ⁷[notes/numbers.html](#)
 - ⁸[notes/local_vs_global.html](#)
 - ⁹[notes/array_basics.html](#)
 - ¹⁰[notes/object_basics.html](#)
 - ¹¹[notes/equality.html](#)
 - ¹²[notes/strings_and_re.html](#)
 - ¹³[notes/functions_basic.html](#)
 - ¹⁴[labs/0.html](#)
 - ¹⁵<https://moodle.hanover.edu/mod/quiz/view.php?id=32970>

- Functions as values¹⁶
- Functions as closures¹⁷
- Day 2
 - Functions as a means for creating a scope/context¹⁸
 - Array Collection methods¹⁹
 - Function Usage Patterns²⁰
 - Quiz 2²¹
 - Lab 1²²
- Day 3

Week 3 (01/19-01/23)

- Day 1
 - Overview of Software Development Practices²³
 - Basics of Version Control²⁴
 - Git basics²⁵
 - Review of Git commands²⁶
 - GitHub basics²⁷
- Day 2
 - Remotes and Branches²⁸
 - GitHub Workflow²⁹
 - Overall Project Workflow³⁰
 - Methods in objects and the need for this³¹
 - Function call forms and the value of this³²
- Day 3

¹⁶[notes/function_values.html](#)

¹⁷[notes/function_closures.html](#)

¹⁸[notes/functions_for_scope.html](#)

¹⁹[notes/array_collection_methods.html](#)

²⁰[notes/function_usage_patterns.html](#)

²¹<https://moodle.hanover.edu/mod/quiz/view.php?id=33676>

²²[labs/1.html](#)

²³[notes/dev_overview.html](#)

²⁴[notes/git_version_control.html](#)

²⁵[notes/git_basics.html](#)

²⁶[notes/git_commands_review.html](#)

²⁷[notes/github_basics.html](#)

²⁸[notes/git_remotes_branches.html](#)

²⁹[notes/github_workflow.html](#)

³⁰[notes/project_workflow.html](#)

³¹[notes/object_methods.html](#)

³²[notes/function_calls_and_this.html](#)

Week 4 (01/26-01/30)

- Day 1
 - The DRY principle³³
 - Object creation and prototypes³⁴
- Day 2
 - Different stack implementations³⁵
 - “Class” construction examples³⁶
 - Setting up a second remote³⁷
 - Testing Basics³⁸
- Day 3

Week 5 (02/02-02/06)

- Day 1
- Day 2
 - Introduction to the DOM (Document Object Model)³⁹
 - Introduction to jQuery⁴⁰
- Day 3

Week 6 (02/09-02/13)

- Day 1
 - Object properties⁴¹
 - Introduction to DOM Events⁴²
 - Timers⁴³
- Day 2
 - TaskApp: Building a Web App⁴⁴
- Day 3

³³[notes/dry.html](#)

³⁴[notes/object_creation_prototypes.html](#)

³⁵[notes/stack_various.html](#)

³⁶[notes/class_construction.html](#)

³⁷[notes/second_remote.html](#)

³⁸[notes/testing_basics.html](#)

³⁹[notes/dom_intro.html](#)

⁴⁰[notes/jquery_intro.html](#)

⁴¹[notes/object_properties.html](#)

⁴²[notes/events_intro.html](#)

⁴³[notes/events_timers.html](#)

⁴⁴[notes/taskapp_setup.html](#)

Week 7 (02/16-02/20)

- Day 1
 - TaskApp: Building a Web App⁴⁵
- Day 2
 - TaskApp: Building a Web App⁴⁶
- Day 3

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
 - Assignment of Projects⁴⁷
 - Using Templates: Handlebars⁴⁸
- Day 2
 - Work on Projects
- Day 3

Week 10 (03/09-03/13)

- Day 1
 - Graphics in Javascript, SVG⁴⁹
- Day 2
 - Custom Events: Observer, Publish/Subscribe⁵⁰
- Day 3

⁴⁵[notes/taskapp_setup.html](#)

⁴⁶[notes/taskapp_setup.html](#)

⁴⁷[notes/project_descriptions.html](#)

⁴⁸[notes/templates.html](#)

⁴⁹[notes/graphics.html](#)

⁵⁰[notes/custom_events.html](#)

Week 11 (03/16-03/20)

- Day 1
 - Documentation systems⁵¹
 - Code Reviews⁵²
- Day 2
 - Module Patterns: Node/CommonJS modules⁵³
 - Using require.js⁵⁴
 - UMD modules⁵⁵
- Day 3

Week 12 (03/23-03/27)

- Day 1
 - The Visitor Pattern and the need for it⁵⁶
- Day 2
 - Basics of HTTP⁵⁷
 - Introduction to XMLHttpRequest⁵⁸
- Day 3

Week 13 (03/30-04/03)

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

⁵¹[notes/documentation.html](#)

⁵²[notes/code_review.html](#)

⁵³[notes/pattern_modules.html](#)

⁵⁴[notes/requirejs.html](#)

⁵⁵[notes/umd.html](#)

⁵⁶[notes/patterns_visitor.html](#)

⁵⁷[notes/http_intro.html](#)

⁵⁸[notes/xhr_intro.html](#)

Week 14 (04/06-04/10)

- Day 1
 - Projects progress
- Day 2
 - What we left out⁵⁹
 - Final Study Guide⁶⁰
- Day 3

Other topics we did not cover

- MVC: Model-View-Controller⁶¹
- Intro to Patterns: Iterator⁶²
- Lab 5: Collections⁶³
- Design Patterns⁶⁴
- Patterns of code reuse⁶⁵
- Pattern: Command⁶⁶
- Pattern: Proxy⁶⁷
- Pattern: Visitor⁶⁸
- Pattern: Visitor (cont)⁶⁹
- Lab 6: Double-Linked Lists, History⁷⁰
- Pattern: Composite⁷¹
- Patterns: Adapter and Facade⁷²
- Example of Designing a Model⁷³

⁵⁹[notes/left_out.html](#)

⁶⁰[notes/final_study_guide.html](#)

⁶¹[notes/pattern_mvc.html](#)

⁶²[notes/patterns_iterator.html](#)

⁶³[labs/5.html](#)

⁶⁴[notes/design_patterns.html](#)

⁶⁵[notes/code_reuse.html](#)

⁶⁶[notes/patterns_command.html](#)

⁶⁷[notes/patterns_proxy.html](#)

⁶⁸[notes/patterns_visitor.html](#)

⁶⁹[notes/patterns_visitor.html](#)

⁷⁰[labs/6.html](#)

⁷¹[notes/patterns_composite.html](#)

⁷²[notes/patterns_adapter_facade.html](#)

⁷³[notes/design_example.html](#)