

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
 - How to run Javascript³
 - Numbers in Javascript⁴
 - Local and Global Variables⁵
 - Basics of Arrays⁶
- Day 2
 - Basics of Objects: Dictionaries⁷
 - Equality in Javascript⁸
 - Strings and Regular Expressions⁹
 - Function basics¹⁰
 - Lab 0¹¹
 - Quiz 1¹²

Week 2 (01/12-01/16)

- Day 1
 - Functions as values¹³
 - Functions as closures¹⁴
- Day 2
 - Functions as a means for creating a scope/context¹⁵

¹[notes/history.html](#)
²[notes/page_components.html](#)
³[notes/how_to_run.html](#)
⁴[notes/numbers.html](#)
⁵[notes/local_vs_global.html](#)
⁶[notes/array_basics.html](#)
⁷[notes/object_basics.html](#)
⁸[notes/equality.html](#)
⁹[notes/strings_and_re.html](#)
¹⁰[notes/functions_basic.html](#)
¹¹[labs/0.html](#)
¹²<https://moodle.hanover.edu/mod/quiz/view.php?id=32970>
¹³[notes/function_values.html](#)
¹⁴[notes/function_closures.html](#)
¹⁵[notes/functions_for_scope.html](#)

- Array Collection methods¹⁶
- Function Usage Patterns¹⁷
- Quiz 2¹⁸
- Lab 1¹⁹

Week 3 (01/19-01/23)

- Day 1
 - Overview of Software Development Practices²⁰
 - Basics of Version Control²¹
 - Git basics²²
 - Review of Git commands²³
 - GitHub basics²⁴
- Day 2
 - Remotes and Branches²⁵
 - GitHub Workflow²⁶
 - Overall Project Workflow²⁷
 - Methods in objects and the need for this²⁸
 - Function call forms and the value of this²⁹

Week 4 (01/26-01/30)

- Day 1
 - The DRY principle³⁰
 - Object creation and prototypes³¹
- Day 2
 - Different stack implementations³²

¹⁶[notes/array_collection_methods.html](#)

¹⁷[notes/function_usage_patterns.html](#)

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

¹⁹[labs/1.html](#)

²⁰[notes/dev_overview.html](#)

²¹[notes/git_version_control.html](#)

²²[notes/git_basics.html](#)

²³[notes/git_commands_review.html](#)

²⁴[notes/github_basics.html](#)

²⁵[notes/git_remotes_branches.html](#)

²⁶[notes/github_workflow.html](#)

²⁷[notes/project_workflow.html](#)

²⁸[notes/object_methods.html](#)

²⁹[notes/function_calls_and_this.html](#)

³⁰[notes/dry.html](#)

³¹[notes/object_creation_prototypes.html](#)

³²[notes/stack_various.html](#)

- “Class” construction examples³³
- Setting up a second remote³⁴
- Testing Basics³⁵

Week 5 (02/02-02/06)

- Day 1
 - Survey of HTML³⁶
 - Survey of CSS³⁷
 - A sample page³⁸
- Day 2
 - Introduction to the DOM (Document Object Model)³⁹
 - Introduction to jQuery⁴⁰

Week 6 (02/09-02/13)

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

Week 7 (02/16-02/20)

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

³³[notes/class_construction.html](#)

³⁴[notes/second_remote.html](#)

³⁵[notes/testing_basics.html](#)

³⁶[notes/html_survey.html](#)

³⁷[notes/css_survey.html](#)

³⁸[notes/sample_page.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](#)

⁴⁵[notes/taskapp_setup.html](#)

⁴⁶[notes/taskapp_setup.html](#)

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

Week 10 (03/09-03/13)

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

Week 11 (03/16-03/20)

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

⁴⁷[notes/project_descriptions.html](#)

⁴⁸[notes/templates.html](#)

⁴⁹[notes/graphics.html](#)

⁵⁰[notes/custom_events.html](#)

⁵¹[notes/documentation.html](#)

⁵²[notes/code_review.html](#)

⁵³[notes/pattern_modules.html](#)

⁵⁴[notes/requirejs.html](#)

⁵⁵[notes/umd.html](#)

Week 12 (03/23-03/27)

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

Week 13 (03/30-04/03)

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

Week 14 (04/06-04/10)

- Day 1
 - Projects progress
- Day 2
 - What we left out⁵⁹

Other topics we did not cover

- MVC: Model-View-Controller⁶⁰
- Intro to Patterns: Iterator⁶¹
- Lab 5: Collections⁶²
- Design Patterns⁶³
- Patterns of code reuse⁶⁴
- Pattern: Command⁶⁵

⁵⁶[notes/patterns_visitor.html](#)

⁵⁷[notes/http_intro.html](#)

⁵⁸[notes/xhr_intro.html](#)

⁵⁹[notes/left_out.html](#)

⁶⁰[notes/pattern_mvc.html](#)

⁶¹[notes/patterns_iterator.html](#)

⁶²[labs/5.html](#)

⁶³[notes/design_patterns.html](#)

⁶⁴[notes/code_reuse.html](#)

⁶⁵[notes/patterns_command.html](#)

- Pattern: Proxy⁶⁶
- Pattern: Visitor⁶⁷
- Pattern: Visitor (cont)⁶⁸
- Lab 6: Double-Linked Lists, History⁶⁹
- Pattern: Composite⁷⁰
- Patterns: Adapter and Facade⁷¹
- Example of Designing a Model⁷²

⁶⁶[notes/patterns_proxy.html](#)

⁶⁷[notes/patterns_visitor.html](#)

⁶⁸[notes/patterns_visitor.html](#)

⁶⁹[labs/6.html](#)

⁷⁰[notes/patterns_composite.html](#)

⁷¹[notes/patterns_adapter_facade.html](#)

⁷²[notes/design_example.html](#)