

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
 - Different stack implementations³²
 - “Class” construction examples³³

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](#)

³³[notes/class_construction.html](#)

- Object properties³⁴
- Day 2
 - Survey of HTML³⁵
 - Survey of CSS³⁶
 - Introduction to the DOM (Document Object Model)³⁷
 - Introduction to jQuery³⁸

Week 5 (02/02-02/06)

- Day 1
 - Lab 2: Writing Tests³⁹
 - Assignment 6⁴⁰
 - Lab 3: Linting, Tasks⁴¹
 - Assignment 7⁴²
 - Introduction to DOM Events⁴³
 - Lab 4: Controllers, jQuery⁴⁴
 - Timers⁴⁵
- Day 2
 - Intro to Patterns: Iterator⁴⁶
 - Intro to Patterns: Iterator (cont)⁴⁷

Week 6 (02/09-02/13)

- Day 1
 - Lab 5: Collections⁴⁸
 - Design Patterns⁴⁹
 - Patterns of code reuse⁵⁰

³⁴[notes/object_properties.html](#)

³⁵[notes/html_survey.html](#)

³⁶[notes/css_survey.html](#)

³⁷[notes/dom_intro.html](#)

³⁸[notes/jquery_intro.html](#)

³⁹[labs/2.html](#)

⁴⁰[assignments/6.html](#)

⁴¹[labs/3.html](#)

⁴²[assignments/7.html](#)

⁴³[notes/events_intro.html](#)

⁴⁴[labs/4.html](#)

⁴⁵[notes/events_timers.html](#)

⁴⁶[notes/patterns_iterator.html](#)

⁴⁷[notes/patterns_iterator.html](#)

⁴⁸[labs/5.html](#)

⁴⁹[notes/design_patterns.html](#)

⁵⁰[notes/code_reuse.html](#)

- Day 2
 - Pattern: Observer⁵¹
 - Pattern: Command⁵²
 - Pattern: Proxy⁵³

Week 7 (02/16-02/20)

- Day 1
 - Pattern: Visitor⁵⁴
- Day 2
 - Pattern: Visitor (cont)⁵⁵

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
 - Module Patterns: Node/CommonJS modules⁵⁶
 - Using require.js⁵⁷
- Day 2
 - UMD modules⁵⁸
 - Lab 6: Double-Linked Lists, History⁵⁹

Week 10 (03/09-03/13)

- Day 1
 - Project proposals
 - Pattern: Composite⁶⁰

⁵¹[notes/patterns_observer.html](#)

⁵²[notes/patterns_command.html](#)

⁵³[notes/patterns_proxy.html](#)

⁵⁴[notes/patterns_visitor.html](#)

⁵⁵[notes/patterns_visitor.html](#)

⁵⁶[notes/pattern_modules.html](#)

⁵⁷[notes/requirejs.html](#)

⁵⁸[notes/umd.html](#)

⁵⁹[labs/6.html](#)

⁶⁰[notes/patterns_composite.html](#)

- Patterns: Adapter and Facade⁶¹
- MVC: Model-View-Controller⁶²
- Day 2
 - Lab / Projects
 - Using Templates: Handlebars⁶³

Week 11 (03/16-03/20)

- Day 1
 - Project progress⁶⁴
 - Project progress⁶⁵
- Day 2
 - Project progress⁶⁶
 - Projects review

Week 12 (03/23-03/27)

- Day 1
 - Example of Designing a Model⁶⁷
 - Basics of HTTP⁶⁸
- Day 2
 - Introduction to XMLHttpRequest⁶⁹
 - Projects progress

Week 13 (03/30-04/03)

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

⁶¹[notes/patterns_adapter_facade.html](#)

⁶²[notes/pattern_mvc.html](#)

⁶³[notes/templates.html](#)

⁶⁴[notes/project_steps.html](#)

⁶⁵[notes/project_steps.html](#)

⁶⁶[notes/project_steps.html](#)

⁶⁷[notes/design_example.html](#)

⁶⁸[notes/http_intro.html](#)

⁶⁹[notes/xhr_intro.html](#)

Week 14 (04/06-04/10)

- Day 1
 - Projects progress
- Day 2
 - What we left out⁷⁰

⁷⁰[notes/left_out.html](#)