

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
- Remotes and Branches²⁵

• Day 2

- GitHub Workflow²⁶
- Overall Project Workflow²⁷
- Methods in objects and the need for this²⁸
- Function call forms and the value of this²⁹
- Lab 2: Writing Tests³⁰
- Object creation and prototypes³¹
- Different stack implementations³²
- Assignment 6³³
- “Class” construction examples³⁴
- Object properties³⁵

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[labs/2.html](#)

³¹[notes/object_creation_prototypes.html](#)

³²[notes/stack_various.html](#)

³³[assignments/6.html](#)

³⁴[notes/class_construction.html](#)

³⁵[notes/object_properties.html](#)

Week 4 (01/26-01/30)

- Day 1
 - Lab 3: Linting, Tasks³⁶
 - Survey of HTML³⁷
- Day 2
 - Survey of CSS³⁸
 - Introduction to the DOM (Document Object Model)³⁹
 - Introduction to jQuery⁴⁰
 - Assignment 7⁴¹

Week 5 (02/02-02/06)

- Day 1
 - Introduction to DOM Events⁴²
 - Lab 4: Controllers, jQuery⁴³
 - Timers⁴⁴
- Day 2
 - Intro to Patterns: Iterator⁴⁵
 - Intro to Patterns: Iterator (cont)⁴⁶

Week 6 (02/09-02/13)

- Day 1
 - Lab 5: Collections⁴⁷
 - Design Patterns⁴⁸
 - Patterns of code reuse⁴⁹
- Day 2

³⁶[labs/3.html](#)

³⁷[notes/html_survey.html](#)

³⁸[notes/css_survey.html](#)

³⁹[notes/dom_intro.html](#)

⁴⁰[notes/jquery_intro.html](#)

⁴¹[assignments/7.html](#)

⁴²[notes/events_intro.html](#)

⁴³[labs/4.html](#)

⁴⁴[notes/events_timers.html](#)

⁴⁵[notes/patterns_iterator.html](#)

⁴⁶[notes/patterns_iterator.html](#)

⁴⁷[labs/5.html](#)

⁴⁸[notes/design_patterns.html](#)

⁴⁹[notes/code_reuse.html](#)

- Pattern: Observer⁵⁰
- Pattern: Command⁵¹
- Pattern: Proxy⁵²

Week 7 (02/16-02/20)

- Day 1
 - Pattern: Visitor⁵³
- Day 2
 - Pattern: Visitor (cont)⁵⁴

Week 8 (02/23-02/27)

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Week 9 (03/02-03/06)

- Day 1
 - Module Patterns: Node/CommonJS modules⁵⁵
 - Using require.js⁵⁶
- Day 2
 - UMD modules⁵⁷
 - Lab 6: Double-Linked Lists, History⁵⁸

Week 10 (03/09-03/13)

- Day 1
 - Project proposals
 - Pattern: Composite⁵⁹
 - Patterns: Adapter and Facade⁶⁰

⁵⁰[notes/patterns_observer.html](#)

⁵¹[notes/patterns_command.html](#)

⁵²[notes/patterns_proxy.html](#)

⁵³[notes/patterns_visitor.html](#)

⁵⁴[notes/patterns_visitor.html](#)

⁵⁵[notes/pattern_modules.html](#)

⁵⁶[notes/requirejs.html](#)

⁵⁷[notes/umd.html](#)

⁵⁸[labs/6.html](#)

⁵⁹[notes/patterns_composite.html](#)

⁶⁰[notes/patterns_adapter_facade.html](#)

- MVC: Model-View-Controller⁶¹
- Day 2
 - Lab / Projects
 - Using Templates: Handlebars⁶²

Week 11 (03/16-03/20)

- Day 1
 - Project progress⁶³
 - Project progress⁶⁴
- Day 2
 - Project progress⁶⁵
 - Projects review

Week 12 (03/23-03/27)

- Day 1
 - Example of Designing a Model⁶⁶
 - Basics of HTTP⁶⁷
- Day 2
 - Introduction to XMLHttpRequest⁶⁸
 - Projects progress

Week 13 (03/30-04/03)

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

⁶¹[notes/pattern_mvc.html](#)

⁶²[notes/templates.html](#)

⁶³[notes/project_steps.html](#)

⁶⁴[notes/project_steps.html](#)

⁶⁵[notes/project_steps.html](#)

⁶⁶[notes/design_example.html](#)

⁶⁷[notes/http_intro.html](#)

⁶⁸[notes/xhr_intro.html](#)

Week 14 (04/06-04/10)

- Day 1
 - Projects progress
- Day 2
 - What we left out⁶⁹

⁶⁹[notes/left_out.html](#)