

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
- Day 2
 - Survey of CSS⁴
 - A sample page⁵
 - Lab 1⁶
- Day 3
 - How to run Javascript⁷
 - Numbers in Javascript⁸
 - Local and Global Variables⁹
 - Basics of Arrays¹⁰

Week 2 (01/12-01/16)

- Day 1
 - Basics of Objects: Object literals¹¹
 - Equality in Javascript¹²
 - Strings and Regular Expressions¹³
 - Function basics¹⁴
 - Lab 2¹⁵

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 1¹⁶
- Day 2
 - No class
- Day 3
 - No class

Week 3 (01/19-01/23)

- Day 1
 - Functions as values¹⁷
 - Arrow Functions¹⁸
 - Array Collection methods¹⁹
 - Function Usage Patterns²⁰
- Day 2
 - Overview of Software Development Practices²¹
 - Basics of Version Control²²
- Day 3
 - ES6 Classes²³
 - Methods in objects and the need for this²⁴
 - Function call forms and the value of this²⁵
 - Quiz 2²⁶

Week 4 (01/26-01/30)

- Day 1
 - The DRY principle²⁷
 - Object creation and prototypes²⁸
- Day 2

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/dev_overview.html](#)

²²[notes/git_version_control.html](#)

²³[notes/classes.html](#)

²⁴[notes/object_methods.html](#)

²⁵[notes/function_calls_and_this.html](#)

²⁶<https://moodle.hanover.edu/mod/quiz/view.php?id=33676>

²⁷[notes/dry.html](#)

²⁸[notes/object_creation_prototypes.html](#)

- Different stack implementations²⁹
- “Class” construction examples³⁰
- Setting up a second remote³¹
- Testing Basics³²
- Day 3

Week 5 (02/02-02/06)

- Day 1
- Day 2
 - Introduction to the DOM (Document Object Model)³³
 - Introduction to jQuery³⁴
- Day 3

Week 6 (02/09-02/13)

- Day 1
 - Object properties³⁵
 - Introduction to DOM Events³⁶
 - Timers³⁷
- Day 2
 - TaskApp: Building a Web App³⁸
- Day 3

Week 7 (02/16-02/20)

- Day 1
 - TaskApp: Building a Web App³⁹
- Day 2

²⁹[notes/stack_various.html](#)
³⁰[notes/class_construction.html](#)
³¹[notes/second_remote.html](#)
³²[notes/testing_basics.html](#)
³³[notes/dom_intro.html](#)
³⁴[notes/jquery_intro.html](#)
³⁵[notes/object_properties.html](#)
³⁶[notes/events_intro.html](#)
³⁷[notes/events_timers.html](#)
³⁸[notes/taskapp_setup.html](#)
³⁹[notes/taskapp_setup.html](#)

- TaskApp: Building a Web App⁴⁰

- Day 3

Week 8 (02/23-02/27)

BREAK

Week 9 (03/02-03/06)

- Day 1
 - Assignment of Projects⁴¹
 - Using Templates: Handlebars⁴²
- Day 2
 - Work on Projects
- Day 3

Week 10 (03/09-03/13)

- Day 1
 - Graphics in Javascript, SVG⁴³
- Day 2
 - Custom Events: Observer, Publish/Subscribe⁴⁴
- Day 3

Week 11 (03/16-03/20)

- Day 1
 - Documentation systems⁴⁵
 - Code Reviews⁴⁶
- Day 2

⁴⁰[notes/taskapp_setup.html](#)

⁴¹[notes/project_descriptions.html](#)

⁴²[notes/templates.html](#)

⁴³[notes/graphics.html](#)

⁴⁴[notes/custom_events.html](#)

⁴⁵[notes/documentation.html](#)

⁴⁶[notes/code_review.html](#)

- Module Patterns: Node/CommonJS modules⁴⁷
- Using require.js⁴⁸
- UMD modules⁴⁹

- Day 3

Week 12 (03/23-03/27)

- Day 1
 - The Visitor Pattern and the need for it⁵⁰
- Day 2
 - Basics of HTTP⁵¹
 - Introduction to XMLHttpRequest⁵²
- 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 out⁵³
 - Final Study Guide⁵⁴
- Day 3

⁴⁷[notes/pattern_modules.html](#)

⁴⁸[notes/requirejs.html](#)

⁴⁹[notes/umd.html](#)

⁵⁰[notes/patterns_visitor.html](#)

⁵¹[notes/http_intro.html](#)

⁵²[notes/xhr_intro.html](#)

⁵³[notes/left_out.html](#)

⁵⁴[notes/final_study_guide.html](#)

Other topics we did not cover

- MVC: Model-View-Controller⁵⁵
- Intro to Patterns: Iterator⁵⁶
- Lab 5: Collections⁵⁷
- Design Patterns⁵⁸
- Patterns of code reuse⁵⁹
- Pattern: Command⁶⁰
- Pattern: Proxy⁶¹
- Pattern: Visitor⁶²
- Pattern: Visitor (cont)⁶³
- Lab 6: Double-Linked Lists, History⁶⁴
- Pattern: Composite⁶⁵
- Patterns: Adapter and Facade⁶⁶
- Example of Designing a Model⁶⁷

Old notes

- Functions as closures⁶⁸
- Functions as a means for creating a scope/context⁶⁹
- Git basics⁷⁰
- Review of Git commands⁷¹
- GitHub basics⁷²
- Remotes and Branches⁷³
- GitHub Workflow⁷⁴
- Overall Project Workflow⁷⁵

⁵⁵[notes/pattern_mvc.html](#)

⁵⁶[notes/patterns_iterator.html](#)

⁵⁷[labs/5.html](#)

⁵⁸[notes/design_patterns.html](#)

⁵⁹[notes/code_reuse.html](#)

⁶⁰[notes/patterns_command.html](#)

⁶¹[notes/patterns_proxy.html](#)

⁶²[notes/patterns_visitor.html](#)

⁶³[notes/patterns_visitor.html](#)

⁶⁴[labs/6.html](#)

⁶⁵[notes/patterns_composite.html](#)

⁶⁶[notes/patterns_adapter_facade.html](#)

⁶⁷[notes/design_example.html](#)

⁶⁸[notes/function_closures.html](#)

⁶⁹[notes/functions_for_scope.html](#)

⁷⁰[notes/git_basics.html](#)

⁷¹[notes/git_commands_review.html](#)

⁷²[notes/github_basics.html](#)

⁷³[notes/git_remotes_branches.html](#)

⁷⁴[notes/github_workflow.html](#)

⁷⁵[notes/project_workflow.html](#)