Schedule

A week-by-week breakdown of the material.

Week 1 (09/04-09/09)

Mon Introduction to Haskell and Fuctional Programming[1] (1.1-1.5)

Wed Working with the GHC compiler and interpreter. Lists.[2] (2.1-2.5)

Fri Standard Haskell values and types.[3] (3.1-3.5)

Week 2 (09/11-09/15)

Mon More advanced typing: Curried Functions. Polymorphism, Type classes.[4] (3.6-3.9)

Wed More advanced typing: Curried Functions. Polymorphism, Type classes. (cont)[5] (3.6-3.9)

Fri Conditionals. Guarded Expressions.[6] (4.1-4.3)

Assignment 1. Due 09/22[7]

Week 3 (09/18-09/22)

Mon Pattern Matching.[8] (4.4)

Wed More practice with Pattern Matching.[9]

Fri Version Control[10]

Assignment 2. Due 09/29[11]

[1] notes/intro.html
[2] notes/lists.html
[3] notes/standard.html
[4] notes/types_advanced.html
[5] notes/types_advanced.html
[6] notes/functions_conditionals.html
[7] assignments/assignment1.html
[8] notes/pattern_matching.html
[9] notes/more_pattern_matching.html
[10] notes/version_control.html
[11] assignments/assignment2.html

Week 4 (09/25-09/29)

Mon Recursion[12] (6.1-6.6)

Wed Recursion (cont)[13] (6.1-6.6)

Fri Anonymous Functions. Sections.[14] (4.5-4.6)
Assignment 3. Due 10/13[15]

Week 5 (10/02-10/06)

Mon Type Aliases and Custom Types.[16] (8.1-8.3)

Wed The Maybe (Option) Type.[17]

Fri List Comprehensions.[18] (5.1-5.4)

Week 6 (10/09-10/13)

Mon Functions as Values: Difference Lists, Composition[19] (7.5)

Wed Functions as Values: Difference Lists, Composition (cont)[20] (7.5)

Fri MIDTERM (study guide[21])

Week 7 (10/16-10/20)

Mon Overview of Software Development Practies[22]
Testing[23]

Wed Higher-order functions. Processing Lists. (7.1-7.2)
Folding. (7.3-7.4)

Fri Practice with Higher-order functions.

[12] notes/recursion.html
[13] notes/recursion.html
[14] notes/anonymous_functions.html
[15] assignments/assignment3.html
[16] notes/types_custom.html
[17] notes/types_custom.html
[18] notes/list_comprehensions.html
[19] notes/difference_lists.html
[20] notes/difference_lists.html
[21] notes/midterm_study_guide.html
[22] notes/dev_overview.html
[23] notes/testing.html

Week 8 (10/23-10/27)

Mon Recursive Types. (8.4)

Wed Interactive Programming: Modeling state without mutation (10.?)

Fri Practice with Interactive Programming (10.?)

Week 9 (10/30-11/03)

Mon Type-directed programming. Modules.

Wed Information hiding and abstraction with modules.

Fri Custom type classes. (8.5)

Week 10 (11/06-11/10)

Mon TBD

Wed TBD

Fri TBD

Week 11 (11/13-11/17)

Mon TBD

Wed TBD

Fri TBD

Week 12 (11/20-11/24)

Mon TBD

Wed TBD

Fri TBD

Week 13 (11/27-12/01)

Mon TBD

Wed TBD

Fri TBD

Week 14 (12/04-12/08)

Mon TBD

Wed TBD

Fri TBD