

# Schedule

A week-by-week breakdown of the material.

## Week 1 (09/04-09/09)

**Mon** Introduction to Haskell and Fuctional Programming<sup>1</sup> (1.1-1.5)

**Wed** Working with the GHC compiler and interpreter. Lists.<sup>2</sup> (2.1-2.5)

**Fri** Standard Haskell values and types.<sup>3</sup> (3.1-3.5)

## Week 2 (09/11-09/15)

**Mon** More advanced typing: Curried Functions. Polymorphism, Type classes.<sup>4</sup> (3.6-3.9)

**Wed** More advanced typing: Curried Functions. Polymorphism, Type classes. (cont)<sup>5</sup> (3.6-3.9)

**Fri** Conditionals. Guarded Expressions.<sup>6</sup> (4.1-4.3)

Assignment 1. Due 09/22<sup>7</sup>

## Week 3 (09/18-09/22)

**Mon** Pattern Matching.<sup>8</sup> (4.4)

**Wed** Anonymous Functions. Sections.<sup>9</sup> (4.5-4.6)

**Fri** Type Aliases and Custom Types. Option Type.<sup>10</sup> (8.1-8.3)

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<sup>1</sup>[notes/intro.html](#)

<sup>2</sup>[notes/lists.html](#)

<sup>3</sup>[notes/standard.html](#)

<sup>4</sup>[notes/types\\_advanced.html](#)

<sup>5</sup>[notes/types\\_advanced.html](#)

<sup>6</sup>[notes/functions\\_conditionals.html](#)

<sup>7</sup>[assignments/assignment1.html](#)

<sup>8</sup>[notes/pattern\\_matching.html](#)

<sup>9</sup>[notes/anonymous\\_functions.html](#)

<sup>10</sup>[notes/types\\_custom.html](#)

## **Week 4 (09/25-09/29)**

**Mon** List comprehensions. (5.1-5.3)

More list comprehensions. (5.4-5.5)

**Wed** Numerical recursion. List recursion. (6.1-6.2)

**Fri** Multiple argument recursion. Mutual recursion. (6.3-6.5)

## **Week 5 (10/02-10/06)**

**Mon** Recursion practice. (6.6)

**Wed** Higher-order functions. Processing Lists. (7.1-7.2)

**Fri** Folding. (7.3-7.4)

## **Week 6 (10/09-10/13)**

**Mon** Function composition. Examples. (7.5, 7.7)

**Wed** Practice with Higher-order functions.

**Fri** Recursive Types. (8.4)

## **Week 7 (10/16-10/20)**

**Mon** Type-directed programming. Modules.

**Wed** Information hiding and abstraction with modules.

**Fri** Custom type classes. (8.5)

## **Week 8 (10/23-10/27)**

BREAK

## **Week 9 (10/30-11/03)**

**Mon** TBD

**Wed** TBD

**Fri** TBD

**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