

# Schedule

A week-by-week breakdown of the material.

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

**Mon** Introduction to Haskell and Functional 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** More practice with Pattern Matching.<sup>9</sup>

**Fri** Version Control<sup>10</sup>

Assignment 2. Due 09/29<sup>11</sup>

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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/more\\_pattern\\_matching.html](#)

<sup>10</sup>[notes/version\\_control.html](#)

<sup>11</sup>[assignments/assignment2.html](#)

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

**Mon** Recursion<sup>12</sup> (6.1-6.6)

**Wed** Recursion (cont)<sup>13</sup> (6.1-6.6)

**Fri** Anonymous Functions. Sections.<sup>14</sup> (4.5-4.6)  
Assignment 3. Due 10/13<sup>15</sup>

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

**Mon** Type Aliases and Custom Types.<sup>16</sup> (8.1-8.3)

**Wed** The Maybe (Option) Type.<sup>17</sup>

**Fri** List Comprehensions.<sup>18</sup> (5.1-5.4)

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

**Mon** Functions as Values: Difference Lists, Composition<sup>19</sup> (7.5)

**Wed** Functions as Values: Difference Lists, Composition (cont)<sup>20</sup> (7.5)

**Fri** MIDTERM (study guide<sup>21</sup>)

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

**Mon** Interactive Programming<sup>22</sup> (10.1-10.5)

**Wed** Interactive Programming<sup>23</sup> (10.1-10.5)

**Fri** Practice with Interactive Programming<sup>24</sup> (10.6)

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<sup>12</sup>[notes/recursion.html](#)

<sup>13</sup>[notes/recursion.html](#)

<sup>14</sup>[notes/anonymous\\_functions.html](#)

<sup>15</sup>[assignments/assignment3.html](#)

<sup>16</sup>[notes/types\\_custom.html](#)

<sup>17</sup>[notes/types\\_custom.html](#)

<sup>18</sup>[notes/list\\_comprehensions.html](#)

<sup>19</sup>[notes/difference\\_lists.html](#)

<sup>20</sup>[notes/difference\\_lists.html](#)

<sup>21</sup>[notes/midterm\\_study\\_guide.html](#)

<sup>22</sup>[notes/interactive.html](#)

<sup>23</sup>[notes/interactive.html](#)

<sup>24</sup>[notes/interactive\\_hangman.html](#)

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

**Mon** BREAK

**Wed** Recursive Types<sup>25</sup> (8.4)

Assignment 4. Due 11/03<sup>26</sup>

**Fri** Folding<sup>27</sup> (7.3-7.4)

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

**Mon** Folding<sup>28</sup> (7.3-7.4)

**Wed** Overview of Software Development Practices<sup>29</sup>

**Fri** Information hiding and abstraction with modules<sup>30</sup>

## Week 10 (11/06-11/10)

**Mon** Testing<sup>31</sup>

**Wed** Testing<sup>32</sup>

**Fri** Lab catchup

## Week 11 (11/13-11/17)

**Mon** The State Monad<sup>33</sup>

**Wed** Functors, Applicatives, Monads<sup>34</sup>

**Fri** Specification Testing with HSpec<sup>35</sup>

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<sup>25</sup>[notes/recursive\\_types.html](#)

<sup>26</sup>[assignments/assignment4.html](#)

<sup>27</sup>[notes/folding.html](#)

<sup>28</sup>[notes/folding.html](#)

<sup>29</sup>[notes/dev\\_overview.html](#)

<sup>30</sup>[notes/modules.html](#)

<sup>31</sup>[notes/testing.html](#)

<sup>32</sup>[notes/testing.html](#)

<sup>33</sup>[notes/functors\\_monads.html](#)

<sup>34</sup>[notes/functors\\_monads.html](#)

<sup>35</sup>[notes/testing\\_hspec.html](#)

**Week 12 (11/20-11/24)**

**Mon** TBD

**Wed** THANKSGIVING

**Fri** THANKSGIVING

**Week 13 (11/27-12/01)**

**Mon** TBD

**Wed** TBD

**Fri** TBD

**Week 14 (12/04-12/08)**

**Mon** TBD

**Wed** TBD

**Fri** TBD