Agenda for CSCE 590 class meeting of 2020-11-10, Class 25: 1 of Week 13; Online)

1. Remember to record the session!

WEEK	TOPIC	SOURCE
1 (8/20, 8/25)	Introduction and the GHC Compiler and Haskell Platform	Chs. 1 & 2 [H]
2 (8/27, 9/1)	Types and Classes	Ch.3 [H]
3 (9/3, 9/8)	Defining Functions and List Comprehensions	Chs. 4 & 5 [H]
4 (9/10, 9/15)	Recursive Functions	Ch. 6 [H]
5 (9/17, 9/22)	Higher-Order Functions	[B] & Ch.7 [H]
6 (9/23, 9/29)	Declaring Types and Classes and the Countdown Problem	Chs. 8 and 9 [H]
7 (10/01, 10/6)	Review and the Countdown Problem (was: Review and Midterm)	Chs. 8 and 9 [H]
8 (10/08, 10/13)	Midterm and a Simple Sudoku Solver	Ch. 5 [TFWH]
9 (10/15, 10/20)	The Countdown Problem; Denotational Semantics	Ch.9 [H], Notes
10 (10.22, 10/27)	Interactive Programming and Two-person Games	Chs. 10 & 11 [H]
11(10.29, 11/3)	Two-person Games; Functors, Applicatives, and Monads	Chs 11 & 12 [H]
12(11/5, 11/10)	Functors, Applicatives, and Monads; Monadic Parsing	Ch. 13 [H]
13 (11/12, 11/17)	Functors, Applicatives, and Monads; Monadic Parsing Foldables	Chs. 13, 14 & 15 [H]
	and Lazy Evaluation	
14	Reasoning about Programs	Chs. 16 & 17 [H]
(15	Functional (Persistent) Data Structures	Notes)
	Final Exam: December 10, 9 a.m.	

- 2. Check email to see whether students are emailing reports of trouble.
- 3. Ask student to use chat for questions and mute audio and video on their side, to limit clutter and bandwidth.
- Virtual Office Hours. I expect to have virtual office hours on Blackboard Collaborate Ultra from 1500-1800 on Mondays. Office hours are canceled until further notice. Please email me for meetings.
- 5. HW11: Exercises 1-3 Ch.11 [H], due on Thursday, November 5. (This is a change.)
- 6. HW12: Exercises 1-5 Ch.12 [H], due on Thursday, November 19. (I plan to assign exercises 6-8 later.)
- 7. Ch.12 [H]: Monads and More: Functors and Applicatives.
- 8. Video by Graham Hutton, with an introduction to Monads.
- 9. Chapter 30 ("Understanding Monads") of the Haskell Wikibook (https://cse.sc.edu/~mgv/csce590f20/haskell/Haskell wiki.pdf; linked to course website).
- 10. Formal semantics: Axiomatic Semantics. A presentation based on Ch.9 ("An Introduction to Formal Semantics") of: Carlo Ghezzi and Mehdi Jazayeri. *Programming Language Concepts*, 2nd ed. Wiley, 1987.
- 11. Ask students to have the required textbook [H] with them during class.
- 12. Make sure that the students are fine and wait for questions before ending the session.