Software Design 236700 - Syllabus

Tentative Schedule (Likely to Change):

Week	Lectures	Tutorials	Assignment
1	Intro	Declarative vs Imperative code + Java 8	
2	Testing	Testing	0th Assignment (**10%**)
3	Mocking	Mockito	
4	Classes	Dependency Injection	1st Assignment (**30%**)
5	Classes	Dependency Injection: Guice	
6	Classes	Design Patterns I	
7	Functional Programming	Design Patterns II	2nd Assignment (**30%**)
8	Functional Programming	Monads	
9	Testability	TDD	
10	DSL	Type Driven Design / DSL	3rd Assignment, API Choosing (**30%**)
11	Architecture	Serialization	
12	Architecture	Frameworks: MVC	
13	Architecture	Live MVC	

Grade structure:

<u>Grading policy</u>

- Final exam (**Must get at least 50 in the exam for the homework to be eligible!**)
- 4 Homework assignments

<u>Final Grade</u>

If T is the test grade and H is the homework grade, then final grade is:
$$0.7 \cdot T + 0.3 \cdot H$$