CSC410: Computer Testing and Verification, Fall 2018 Syllabus

Tentative Schedule:

Week of Sept. 3   Intro, Assertions

Week of Sept. 10   Tutorial: prop. logic review

Analysis foundations, 1st order logic review

Week of Sept. 17   Tutorial: quiz on logic, JUnit

Testing 1

Week of Sept. 24   Tutorial: coverage with Junit

Testing 2

Week of Oct. 1   Tutorial: dataflow analysis

Testing 3

Week of Oct. 8   No tutorial - Thanksgiving

Concolic testing and symbolic execution

Week of Oct. 15   Tutorial: Java Pathfinder, CUTE

SAT/SMT part 1

Week of Oct. 22   Midterm in tutorial (at 11!)

SAT/SMT part 2

Week of Oct. 29   Tutorial: Z3

Hoare logic

Last day to drop is Nov. 5, no classes 5-9 (study break)

Week of Nov. 12   Tutorial: Hoare logic practice
Hoare logic and invariants, Dafny

Week of Nov. 19   Tutorial: Dafny
Topics: Delta debugging, specification mining, CLEVER

Week of Nov. 26   Tutorial: Assignment 4 help
Topics from prev. week, summary, review

Week of Dec. 3   Tutorial: Assignment 4 help

Important Dates:

• September 17: quiz on logic, in tutorial

• Assignment 1 is out on Sept. 19, due on Oct. 3

• Assignment 2 is out on Oct. 3, part 1 due on Oct. 17, part 2 due on Oct. 31

• Thanksgiving is on October 8

• Midterm in tutorial on Oct. 22 (at 11 a.m., both sections!)

• Assignment 3 is out on (or before) Oct. 31, due on Nov. 14

• Last day to drop the course is November 5

• No classes the week of November 5. Study break

• Assignment 4 is out on Nov. 14, due on December 5

• Last day of classes is on December 5

• Final Exam – the exact day is to be announced – but on or before Dec. 21