IST 597A: Software Security and Analysis  
(Spring 2015)

Schedule (tentative)

Week 1 (January 14): Logistics and Introduction.

Phase 1: Software Foundations and Methodology

Week 2 (January 21):
- Computational models

Week 3 (January 28)
- Inductive definitions.
- Homework assignment 1

Week 4 (February 4):
- $\lambda$-calculus, and
- Homework assignment 2

Week 5 (February 11)
- Type systems
- Homework assignment 3

Week 6 (February 18)
- Faculty candidate talk, Aniket Kate,

Week 7 (February 25)
- Faculty candidate talk, Xinyu Xing, Georgia Tech

Week 8 (March 4)
- Canceled due to inclement weather

Spring Break

Week 9 (March 18)
- Model checking
- Homework assignment 4

Week 10 (March 25)

- Model checking demos using
  - SMV by Can Zhang,
  - Spin by Dongpeng Xu, and
  - JPF by Yu Fu.
- (Homework Assignment 5)

**Phase 2: Software Security Seminar**

Week 11 (April 1)

Week 12 (April 8)

Week 13 (April 15)

Week 14 (April 22)

**Phase 3: Projects**

Week 15 (April 29)

- 6 students, 30 minutes each

Makeup classes (TBD)

- 6 students, 30 minutes each