

ITEC 493

**Selected Topics in
Software Testing
Spring 2011 (3 credit hours)
Mon/Wed/Fri NOON-12:50pm
Prerequisite: ITEC 120
Instructor: Don Braffitt
Revised: 31-Dec-2010**



Tentative list of topics:

1. Software testing concepts including Test Driven Development (TDD)
2. Building the test environment (e.g. automated testing, GUI testing, test harnesses)
3. Managing the test project, and testing across the software development lifecycle
4. Test planning and types of testing (e.g., unit, integration, system, functionality, routine/method coverage, code path coverage, performance, black box versus white box)
5. Developing the tests, executing the test plan, and reporting and analyzing the test results
6. User acceptance testing
7. Testing software developed by outside organizations
8. Testing software controls and the adequacy of security procedures
9. Testing new technologies
10. Tool support for testing (e.g., BlueJ/JUnit, CodingBat)
11. Testing case studies (both successes and failures)
12. Testing certifications and exams

More Information:

<http://www.radford.edu/dbraffitt/>