SYSM6310 - Software Testing, Validation and Verification

SYSM 6310 (CS 6367 and SE 6367) Software Testing, Validation and Verification (3 semester credit hours)
Fundamental concepts of software testing. Functional testing, GUI based testing tools. Control flow based
test adequacy criteria. Data flow based test adequacy criteria. White box based testing tools. Mutation
testing and testing tools. Relationship between test adequacy criteria. Finite state machine based testing.
Static and dynamic program slicing for testing and debugging. Software reliability. Formal verification of
program correctness. Prerequisite: SE 5354. (3-0) Y