SE4367 - Software Testing, Verification, Validation and Quality Assurance

**SE 4367** Software Testing, Verification, Validation and Quality Assurance (3 semester credit hours) Methods for evaluating software for correctness and reliability, including code inspections, program proofs and testing methodologies. Formal and informal proofs of correctness. Code inspections and their role in software verification. Unit and system testing techniques, testing tools and limitations of testing. Statistical testing, reliability models. Prerequisites: **SE 3306** and (**CE 3354** or **CS 3354** or **SE 3354**) or instructor consent required. (3-0) S