

## **CSE 565      Software Verification, Validation and Testing**

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### **Topics**

Testing background  
Testing process activities  
Requirements-based testing techniques  
Feature interaction testing  
Exploratory testing  
Structure-based testing techniques  
Integration testing  
System testing  
Regression testing  
Usability testing  
Performance testing  
Security testing  
Design of Experiments  
Testing tools  
Software Reliability Engineering  
Reliability models  
Statistical testing  
Test planning  
Risk based testing  
Tracking testing progress  
Testing measures  
Test documentation  
Testing standards  
Test process improvement  
Test process patterns

### **Student Evaluation**

2 Exams	70%
Homework and Projects	30%

Students in CSE 565 are responsible for acting with honesty and integrity as described in the ASU Academic Integrity Policy and Procedures.

<http://provost.asu.edu/academicintegrity>

Violations in this course may lead to sanctions ranging from a zero grade to expulsion from the university.