Final Exam Guidelines

SWEN 6301- Fall 2019

Exam Date, Time, and Location

• Date: On Saturday January 25th 2020.

• Time: 2:00 – 4:30 PM

• Location: Masri 106

Exam Material

- Module 5: Software Construction and Creating High-Quality Code
 - Reading: Chapters 1, 4, 5, 6, 7, 8 from Code Complete 2 book.
- Module 6: High-Quality Variables
 - Reading: Chapters 10 and 11 from Code Complete 2 book.
- Module 7: Code Tuning and Refactoring
 - Reading: Chapters 24, 25, and 26 from Code Complete 2 book.
- Module 8: Software Testing
 - Reading: Chapter 8 from Software Engineering (Ian Sommerville) and Chapter
 22 from Code Complete 2 book.

Exam Guidelines

- Exam will be **150-minute** OPEN RESOURCES exam.
- That means Textbooks, notes, laptops, calculators, and Internet access are allowed. **Cell phones are prohibited!**
- Exam is worth 100 points equivalent to 40% of the course grade.
- There will be **4 sections**:
 - Software Construction Practices.
 - High-Quality Code.
 - Code Tuning and Refactoring.
 - Software Testing

Software Construction Practices

 Tests your understanding of how a software construction activity affects the development team or the software development process your company is adopting.

High-Quality Code

- Tests your ability to perform code reviews to improve the code quality.
- You will be presented with code snippets that a newly hired developer had written and your job is to write a series of clear steps on how to improve the code on the issues identified in the code.

Code Tuning and Refactoring

- Tests your ability to tune and refactor code to enhance its design or improve its performance according to the techniques we have studied.
- You will be provided with code segments and you will be asked to perform a specific improvement operation.
- Code will have simple operations and it will present programming constructs that is common to all languages.

Software Testing

- Tests your understanding of software testing concepts and its related coverage metrics.
- You will be presented with a faulty reasoning and your job will be to describe the misunderstanding or problems in that reasoning.