

ECE 417/617 Assignment #3

Read Chapters 1-2 of Steve McConnell, *Code Complete*, 2nd edition, Microsoft Press, 2004.

Then answer the following questions.

Chapter 1: Software construction

1. How is McConnell's book lop-sided? It only focuses on software _____.
2. List three aspects of software engineering that are not covered in this book:
_____, _____, and _____.
3. Why is "programming" a better word than "coding"?
4. The ratio of the best to the worst programmer's productivity on a team is approximately what?
5. List three reasons why software construction is so important.

Chapter 2: Metaphors

6. Fred Brooks says, "Plan to throw one away; you will anyhow." What is a better way?
7. List one drawback of each of the following software metaphors:
Writing code: _____
Growing a system: _____
8. What software metaphor does McConnell advocate?
9. Who wrote the *Mythical Man Month*?
10. Whose breakthrough book pioneered incremental development?
11. List some similarities between building construction and software construction.
12. Like a good craftsman, a good programmer has a full mental _____.