

# CISC 327

# Software Quality Assurance

Lecture “review4”

Review for Mini-Exam #4

# Reminder

- I drop the lowest mini-exam mark
- If you wrote the first three, and you're satisfied with your average, you don't have to show up

# Likely topics/questions on mini-exam #3

- From Lecture 20 (formal inspections)
  - Know (roughly) the relative costs from “Cost of Fixing Errors” (Lecture 20 slide 26)
  - Know the roles of *Moderator*, *Inspectors*, *Author*:
    - I could ask you to match them up with “keeps paraphrasing at a reasonable pace”, “paraphrase the code”, “clarifies code when asked”, etc.
    - I could describe a flawed Bogosys inspection process and ask you what’s wrong with it

# Likely topics/questions on mini-exam #3

- From Lecture 21 (formal inspections)
  - Know (roughly) the defect classification (Critical, Severe, Moderate, Minor)

# Likely topics/questions on mini-exam #3

- From Lecture 22 (code inspections)
  - Know some examples of items on a code checklist

# Likely topics/questions on mini-exam #3

- From Lecture 19–0  
(XP code inspection, refactoring)
  - Know some examples of “code smells” and refactorings, especially “Don’t Repeat Yourself” and how to “factor out” duplicate code into a new method

# Likely topics/questions on mini-exam #4

- From Lecture 25:
  - Basics of measurement

# Likely topics/questions on mini-exam #4

- From Lecture 26:
  - difference between faults and failures
  - defect density
    - number of defects **found**, not the “real” number of defects (which is beyond our mortal knowledge)
    - relationship between faults and failures
  - software size: what’s wrong with using (S)LOC?



# Likely topics/questions on mini-exam #4

- From Lecture 27:
  - COCOMO = Constructive Cost Model
  - $\text{Effort} = a (\text{Size})^b$
  - almost meaningless if Size is in LOC
  - different measure of size: **function points**
    - you don't need to memorize specific elements (“logical master files”, etc.) or the coefficients on slide 19, but you should understand the basic idea and why function points are a better measure than LOC

# Bonus question

- involves Bogosys