Operating Systems
CSE 410

Summer 2017

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About This Course

6 weeks * 3 lectures + 1 Week * 2 lectures
-(1 holiday + 2 exam days)
= 17 lectures

We need to cover $\geq 12$ chapters [tentative] and...
About This Course

6 Homeworks + 5 Exercises + ...

Yes... Lots of work...
What's even worse:

10:20 – 12:10 = 1h 50min lecture

About This Course

A lot of work **BUT**

- We will learn important and interesting concepts related to operating systems
- **Processes** (how to write a **shell** or terminal program in Linux?)
- **Threads**: How to implement **Multithread** programs and parallel algorithms?

- **Synchronization**: How to share resources between multiple process?

- How to do **Memory** management?
Format of the Lecture

Monday + Wednesday + Friday
10:20 – 11:10
+ 10 min break
+ 11:20 – 12:10
Textbook
Links

Course’s web site:

http://www.cse.msu.edu/~cse410
Piazza:

http://piazza.com/msu/summer2017/cse410/home
Grading Policy

- Exams 60%
  - Midterm Exam 30%
  - Final Exam 30%
- Homework/Projects 30%
- Exercises/Quizzes 10%
- Presentation (optional) + up to 10%
Homework

• There will be 6 HWs (one per week)
• Will be posted on Wednesday
• **Deadline**: 1 week from posting the homework
• 2 conceptual/problem solving questions
• 4 HWs are implementation projects:
  • C/C++ programming
  • Kernel programming
• Linux environment
Rules about Assignments of Homework

• Individual assignments
• Collaborative solutions are not permitted
• Project Late Points Policy:
  – Late assignment points will be reduced by 20% per day.
  – Maximum delay of 2 days permitted
  – For some projects, late submission will not be accepted
• Such exception will be mentioned in class
• Typically for cases where solution needs to be discussed immediately after deadline
Rules about Assignments of Homework

• TA and I will be available to help you with Linux programming

• For questions: visit TA during lab hours or me in my office hours or Piazza

• You may not of course obtain any materials from previous students, web, etc. [do it by yourself!]
Exams

• Two Exams
• Midterm:
  • Date: Monday, Week 4
  • Covers Chapters 1, 2, 3, 4, 5, and 7
• Final:
• Date: Wednesday, Week 7
• Covers 8, 9, 10, 6, 11, and 12
Quizzes

• Several short quizzes based on the Exercises!

• The lowest quiz score will be dropped and not be included in grade calculation.

• Might be announced in advance, most will not
Presentation

• Optional!

• To help students to boost their grade

• Most likely in last few lectures

• Topics from Chapter 11 and Chapter 12
• Or other interesting topics: Android operating systems, Device drivers!
Guaranteed Grade Scale

- 4.0 $\geq 90\%$ of points available
- 3.5 $\geq 85\%$ of points available
- 3.0 $\geq 80\%$ of points available
- 2.5 $\geq 75\%$ of points available
- 2.0 $\geq 70\%$ of points available
- 1.5 $\geq 65\%$ of points available
- 1.0 $\geq 60\%$ of points available
Curve

- If your score exceeds the respective value from the scale, that grade is guaranteed.
  - For example, if your total score is 83, your final grade cannot be lower than 3.0

- If two students’ score is very close, I assign them identical grade (subject to above rule).
  - For example, if there are two students with overall score of 89.99 and 90.01 then they will receive the same grade of 4.0
Announcements for Class

• Most announcements will be made on Piazza or course webpage.

• I will assume that you are aware of all announcements made in class.
Excuses for …

• Make-ups for exams and Extend assignments’ due date
  – documented illness
  – personal emergency
  – Job interview (only applicable for this class)
• Must notify before the fact and provide appropriate documentation
• Same would apply if you are attending a conference based on recommendation from a professor in our department.

MSU’s policy on Integrity of Scholarship and Grades