Real-Time Systems

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http://www.cse.unl.edu/~goddard/Courses/RealTimeSystems

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Real-Time Systems

- ◆ Real-Time Systems
 - » 2:00-3:15 TuTh
 - » Avery 118
- ◆ Instructor: Steve Goddard
 - » Office hours: 12-1:30pm Tu, 12-1:30pm Thu
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 - » Real-Time Systems, Jane W.S. Liu, Prentice Hall, 2000

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What will you learn? And how?

- ◆ Principles of Real-Time Systems
 - » Mainly real-time scheduling theory
 - » The goal is deterministic behavior (predictability)
 - · This is very different from a general purpose OS
 - Systems have both *logical* and *temporal* correctness!
 - » Primarily through
 - Liu's book
 - Homework and programming assignments
 - Semester project
 - » We will also read and discuss research papers

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Grades

- ◆ Homework and Programming: 20%
 - » 3 homework/programming assignments
- ◆ Semester Project: 30%
 - » Experimental or theoretical
- ◆ Midterm: 20%
- ◆ Final: 30%
 - » Comprehensive
- ◆ Classroom Participation: up to half a letter grade

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Projects

- ◆ Define your own project and write a proposal
 - » Experimental investigation requires a programming project and a final report
 - » Research a topic and write a paper
 - » Publishable results would be great!
- ◆ Team projects are allowed, but they must be significant!

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