

Hot Topics in Operating Systems

Fall 2007

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UMass Computer Science

<http://lass.cs.umass.edu/~shenoy/courses/fall07>



Course Syllabus

- CMPSCI 691D: Hot Topics in Operating Systems
- *Instructor:* Prashant Shenoy
 - Email: shenoy@cs.umass.edu, Phone: (413) 577 0850
 - Office hours: Thursday 1:30-2:30, CS 336, or by appt
- *Teaching Asst:* None
- *Course web page:*
<http://lass.cs.umass.edu/~shenoy/courses/fall07>



Course Details

- *Textbook*: Reading list of papers available online
- *Grading*
 - Present papers, scribe, reviews - 50%
 - Course project - 50%
- *Course mailing list*: cs691d@cs.umass.edu
 - You need to add yourself to this list!
 - *Pre-requisites*
 - Familiarity with basic concepts in OS, distr. Sys, networking
 - *Good* programming skills in a high-level prog. language

Policies

- Cellphone policy
 - cell phones should be turned off - no exceptions
- Slides:
 - You can use slides from author's web pages
 - It is your responsibility to understand the material on the slides
 - Generally better to make your own slides (improve your presentation skills)
- Projects: can be group project or individual project

Course Topics

- Virtualization
 - What? - Introductory papers
 - Migration, monitoring..
- Data centers:
 - Resource management, monitoring, analysis
- Flash storage
 - Server-based flash drives
- Self-* Systems
- Others:
 - Language-based approaches for robust system design
 - <your favorite topic here>