CS6210 Advanced Operating Systems – Spring 2013

Schedule of Projects and Exams

<table>
<thead>
<tr>
<th>Release/Due</th>
<th>Due at</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>January 7/January 18</td>
<td>11:50 PM</td>
<td>Pre-lab and Homework</td>
</tr>
<tr>
<td>January 21</td>
<td>MLK Jr. Day</td>
<td>School Holiday</td>
</tr>
<tr>
<td>January 18/February 8</td>
<td>11:50 PM</td>
<td>Project #1</td>
</tr>
<tr>
<td>February 22</td>
<td>In class</td>
<td>Townhall (midterm prep)</td>
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<tr>
<td>February 25</td>
<td>In class</td>
<td>Midterm</td>
</tr>
<tr>
<td>March 1</td>
<td>DROP DAY</td>
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<tr>
<td>February 8/March 8</td>
<td>11:50 PM</td>
<td>Project #2</td>
</tr>
<tr>
<td>Week of March 18</td>
<td>SPRING BREAK</td>
<td>School Holidays</td>
</tr>
<tr>
<td>March 8/March 29</td>
<td>11:50 PM</td>
<td>Project #3</td>
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<tr>
<td>March 29/April 19</td>
<td>11:50 PM</td>
<td>Project #4 (or special project)</td>
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<tr>
<td>April 26</td>
<td>In class</td>
<td>Townhall (Final prep)</td>
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<tr>
<td>May 3 (Friday)</td>
<td>8 AM – 10:50 AM</td>
<td>Final Exam</td>
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</tbody>
</table>

Schedule of Class Lectures (paper list)

OS Structures (6 hours)

5. Paul Barham, Boris Dragovic, Keir Fraser, Steven Hand, Tim Harris, Alex Ho, Rolf Neugebauer, Ian Pratt, Andrew Warfield, "Xen and the Art of Virtualization ", SOSP 2003.

Synchronization, Communication, and Scheduling in Parallel Systems (6 hours)
Communication Mechanisms in Distributed Systems (6 hours)


Distributed Objects and Middleware (6 hours)


Distributed Shared Memory and File Systems (4 hours)


Real-time and Multimedia (3 hours)


Failures, Consistency, and Recovery (6 lectures)


System Support for Internet Scale Computing (3 hours)

1. Dean, J., and Ghemawat, S. "MapReduce: Simplified Data Processing on Large Clusters"
2. (partial reading) Brewer, E. "Lessons from Giant-Scale Services"
4. Freedman, M., Freudenthal, E., and Mazières, D. "Democratizing content publication with Coral"
6. (read on your own for learning about Web Technologies) (2 short papers)

Security (3 hours)


Additional Papers (not for class discussion)