Class Schedule - Fall 2019

Computer Science

**CS 433  Computer System Organization**  credit: 3 OR 4 hours.
Computer hardware design and analysis and interface with software. Advanced processor design, including superscalar, out-of-order issue, branch prediction, and speculation. Memory hierarchy design, including advanced cache optimizations, main memory, and virtual memory. Principles of multiprocessor design, including shared-memory, cache coherence, synchronization, and consistency. Other advanced topics depending on time; e.g., GPUs and accelerators, warehouse computers and data centers, security. Same as CSE 422. 3 undergraduate hours. 4 graduate hours. Prerequisite: CS 233.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
</tr>
</thead>
<tbody>
<tr>
<td>36069</td>
<td>Lecture-Discussion</td>
<td>T3</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Adve, S</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Not intended for First Time Freshman students.
Restricted to Undergrad - Urbana-Champaign.
For up-to-date information about CS course restrictions, please see the following link: http://go.cs.illinois.edu/CSregister

| 43363 | Lecture-Discussion  | T4      | 11:00 AM - 12:15 PM | TR   | 1214 - Siebel Center for Comp Sci | Adve, S    |

Credit Hours: 4 hours
Not intended for First Time Freshman students.
Restricted to Computer Science or Bioinformatics major(s). Restricted to Graduate - Urbana-Champaign.
For up-to-date information about CS course restrictions, please see the following link: http://go.cs.illinois.edu/CSregister