Computer Science

CS 473 **Fundamental Algorithms**  credit: 0 TO 4 hours.
Fundamental techniques for algorithm design and analysis, including recursion, dynamic programming, randomization, dynamic data structures, fundamental graph algorithms, and NP-completeness. Intended for undergraduates in Computer Science and graduate students in other departments. Same as CSE 414 and MATH 473. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: CS 373.

Students must register for a lecture and a discussion section.

<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>51491</td>
<td>Discussion/ Recitation</td>
<td>AD1</td>
<td>04:00 PM - 04:50 PM</td>
<td>T</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
<tr>
<td>51492</td>
<td>Discussion/ Recitation</td>
<td>AD2</td>
<td>05:00 PM - 05:50 PM</td>
<td>T</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
<tr>
<td>51493</td>
<td>Discussion/ Recitation</td>
<td>AD3</td>
<td>02:00 PM - 02:50 PM</td>
<td>W</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
<tr>
<td>51494</td>
<td>Discussion/ Recitation</td>
<td>AD4</td>
<td>03:00 PM - 03:50 PM</td>
<td>W</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
<tr>
<td>56046</td>
<td>Discussion/ Recitation</td>
<td>AD5</td>
<td>05:00 PM - 05:50 PM</td>
<td>W</td>
<td>1214 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
<tr>
<td>43365</td>
<td>Lecture-Discussion</td>
<td>AE1</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours
Restricted to Computer Science or Statistics & Computer Science or Math & Computer Science or Computer Sci & Anthropology or Computer Sci & Astronomy or Computer Sci & Chemistry or Computer Sci & Linguistics major(s).

<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>35859</td>
<td>Lecture-Discussion</td>
<td>AE2</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Kolla, A</td>
</tr>
</tbody>
</table>

Credit Hours: 4 hours
Restricted to Computer Science major(s). Restricted to Graduate - Urbana-Champaign.