CS 450  **Numerical Analysis**  credit: 0 TO 4 hours.

Linear system solvers, optimization techniques, interpolation and approximation of functions, solving systems of nonlinear equations, eigenvalue problems, least squares, and quadrature; numerical handling of ordinary and partial differential equations. Same as CSE 401, ECE 491, and MATH 450. 3 undergraduate hours. 3 or 4 graduate hours. Credit is not given for both CS 450 and CS 457. Prerequisite: CS 101 or CS 125; CS 357 or MATH 415; MATH 285.

<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>64880</td>
<td>Discussion/Recitation</td>
<td>BD1</td>
<td>03:30 PM - 04:20 PM</td>
<td>R</td>
<td>0216 - Siebel Center for Comp Sci</td>
<td>Fischer, P</td>
</tr>
<tr>
<td>64881</td>
<td>Discussion/Recitation</td>
<td>BD2</td>
<td>05:00 PM - 05:50 PM</td>
<td>R</td>
<td>0216 - Siebel Center for Comp Sci</td>
<td>Fischer, P</td>
</tr>
<tr>
<td>36016</td>
<td>Lecture-Discussion</td>
<td>BL1</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Fischer, P</td>
</tr>
<tr>
<td>36020</td>
<td>Lecture-Discussion</td>
<td>BL2</td>
<td>11:00 AM - 11:50 AM</td>
<td>MWF</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Fischer, P</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours

Credit Hours: 4 hours

Restricted to Graduate - Urbana-Champaign.