**Computer Science**

**CS 450  Numerical Analysis**  credit: 3 or 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>36016</td>
<td>Lecture-Discussion</td>
<td>BL1</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Olson, L</td>
</tr>
</tbody>
</table>

Credit Hours: 3 hours

Restricted to Computer Science or Math & Computer Science major(s). 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](http://go.cs.illinois.edu/CSregister)

Not intended for First Time Freshman students.

| 36020 | Lecture-Discussion  | BL2     | 11:00 AM - 12:15 PM| TR   | 1404 - Siebel Center for Comp Sci | Olson, L   |

Credit Hours: 4 hours

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](http://go.cs.illinois.edu/CSregister)