Computer Science

CS 357  **Numerical Methods I**  credit: 3 hours.
Introduction to numerical methods for students in science and engineering; floating-point computation, systems of linear equations, approximation of functions and integrals, the single nonlinear equation, and the numerical solution of ordinary differential equations; various applications in science and engineering; programming exercises and use of high quality mathematical library routines. Same as MATH 357. Students with earned credit in CS 450 or MATH 450 may not receive additional credit for CS 357 or MATH 357. (Counts for advanced hours in LAS). Prerequisite: A 100-level computer science course; MATH 225 or MATH 415; MATH 241.

<table>
<thead>
<tr>
<th>CRN</th>
<th>Type</th>
<th>Section</th>
<th>Time</th>
<th>Days</th>
<th>Location</th>
<th>Instructor</th>
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<tbody>
<tr>
<td>50106</td>
<td>Lecture-Discussion</td>
<td>M</td>
<td>09:30 AM - 10:45 AM</td>
<td>TR</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Gropp, W</td>
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Credit Hours: 3 hours