# Computer Science

## CS 421  Progrmg Languages & Compilers  credit: 3 OR 4 hours.
Structure of programming languages and their implementation. Basic language design principles; abstract data types; functional languages; type systems; object-oriented languages. Basics of lexing, parsing, syntax-directed translation, semantic analysis, and code generation. 3 undergraduate hours. 3 or 4 graduate hours. Prerequisite: CS 233 and CS 373.

<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>65906</td>
<td>Lecture-Discussion</td>
<td>A3</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1310 - Digital Computer Laboratory</td>
<td>Misailovic, S</td>
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<tr>
<td>65907</td>
<td>Lecture-Discussion</td>
<td>A4</td>
<td>11:00 AM - 12:15 PM</td>
<td>TR</td>
<td>1310 - Digital Computer Laboratory</td>
<td>Misailovic, S</td>
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<td>12:30 PM - 01:45 PM</td>
<td>TR</td>
<td>1404 - Siebel Center for Comp Sci</td>
<td>Parthasarathy, M</td>
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<td>12:30 PM - 01:45 PM</td>
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<td>Parthasarathy, M</td>
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<tr>
<td>71094</td>
<td>Online</td>
<td>DSO</td>
<td>ARRANGED -</td>
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<td>Beckman, A</td>
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Credit Hours: 3 hours
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)

Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.
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Credit Hours: 4 hours
Additional ProctorU fees may apply This is a pilot course and no additional seats will be released