## 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.

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<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>ARRANGED -</td>
<td>TR</td>
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<td>Gunter, E</td>
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</table>

Credit Hours: 3 hours
Students registered in this section will watch the regular CS 421 lecture, online. This is an overflow accommodation for the course. Students in this section will be responsible to turn in all homeworks and take all exams with CS 421.

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Credit Hours: 3 hours

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Credit Hours: 4 hours
Restricted to Graduate - Urbana-Champaign.