CS 558 Programming Languages - Fall 2003 - Schedule

All aspects of this schedule are subject to change.

Key to readings:
Hoare-Axiomatic = C.A.R. Hoare, *An axiomatic Basis for Computer Programming*
Steele = Guy Steele, *Growing a Language*

Assigned readings should be read before the associated lecture date.

<table>
<thead>
<tr>
<th>date</th>
<th>due</th>
<th>reading</th>
<th>topics</th>
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<tbody>
<tr>
<td>Oct 1</td>
<td></td>
<td>Louden 1,2,4,1–4</td>
<td>Introduction; Concrete and abstract syntax; Java &amp; ML</td>
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<tr>
<td>Oct 8</td>
<td>HW1</td>
<td>Louden 5, 7.1–4, 13.1–2,13.4; Hoare-Axiomatic</td>
<td>Semantics; Definitional interpreters; Simple imperative language</td>
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<tr>
<td>Oct 15</td>
<td>HW2</td>
<td>Louden 11.3</td>
<td>Symbolic computing: Atoms, Pairs, Lists, &amp; Recursion</td>
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<tr>
<td>Oct 22</td>
<td>HW3</td>
<td>Louden 7.5, 8</td>
<td>Stacks; Calling conventions; Exceptions</td>
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<td>Oct 29</td>
<td>HW4</td>
<td>Louden 6</td>
<td>Static type checking</td>
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<td>Nov 5</td>
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<td>Nov 12</td>
<td>HW5</td>
<td>Louden 9</td>
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<td>Nov 19</td>
<td>HW6</td>
<td>Louden 11</td>
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<td>Nov 26</td>
<td>HW7</td>
<td>Louden 10</td>
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<td>Dec 3</td>
<td>HW8</td>
<td>Louden 3; Hoare-Hints; Steele</td>
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<td>Dec 10</td>
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**Midterm Exam** and discussion (in-class)

Abstract data types and modules

Nested and first-class functions

Object-oriented Programming

Language Design; Wrap-up

**Final Exam** (starting at 7:30pm)