CS 4630 - Programming Language Translation
Fall 2003

Instructor
Dr. Jay Fenwick
107-E CAP Bldg.
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Office Hours: M:11-12, T:9-2, W:11-1, F:11-1

Meeting Sessions
Mon/Wed/Fri
1-2:50 pm in 243 CAP
Mon
3-6pm in 439 CAP

Description
Techniques for the translation of programming languages into machine or assembly language. Each student
will participate in the writing of a compiler. Lecture three hours, laboratory three hours. Prerequisites:
CS 3482 and 3490.

Texts
Required: Modern Compiler Implementation in Java, Andrew W. Appel, 1999, Cambridge University
Press.

Academic Integrity
Unless specifically indicated, all assignments are expected to be completed by each student individually.
Violations will be handled as specified in the ASU Academic Integrity Policy.

Evaluation

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test: Lexing and Parsing</td>
<td>15%</td>
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<tr>
<td>Test: Activations et.al.</td>
<td>15%</td>
</tr>
<tr>
<td>Project Lexer</td>
<td>7%</td>
</tr>
<tr>
<td>Project Parser</td>
<td>12%</td>
</tr>
<tr>
<td>Project TypeChecker</td>
<td>18%</td>
</tr>
<tr>
<td>Project CodeGenerator</td>
<td>18%</td>
</tr>
<tr>
<td>Final: Written (cumulative)</td>
<td>15%</td>
</tr>
</tbody>
</table>

Attendance is expected. Regular attendance will be rewarded and significant absences will be penalized. Each absence deducts one point from a student’s course grade; however, three grace absences are given. Thus, a student who misses exactly 3 classes does not have their course grade affected. However, a student missing 4 classes will lose 1 point off their course grade. A student missing less than 3 classes earns a 1 point addition to their course grade for each unused grace absence. People with special attendance-related issues, such as military or athletic, must speak with instructor in advance.

Grading Scale

A    = [90-100]  A- = [88-90] 
C+   = [76-78]   C  = [70-76]   C-  = [68-70] 