

## 91.204 Computing IV: Language Engineering Pre-Module Test Questions

For the rest of semester, we will teach an NSF-sponsored compiler/language translation module. To gather research data on the effectiveness of the module, we would like you take the following pre-module test. Your participation is completely voluntary and will *not* in any form affect your standing or grade in the class. If you don't know the answer of the question, you can simply write N/A.

Untraceable ID Code	Instructions for creating your Untraceable ID Code														
<table border="1"><tr><td> </td><td> </td><td> </td><td>-</td><td> </td><td> </td><td> </td></tr><tr><td>1</td><td>2</td><td>3</td><td></td><td>4</td><td>5</td><td>6</td></tr></table> <p>(For research purposes only)</p>				-				1	2	3		4	5	6	<p>Box 1 – Your middle initial Box 2 – The first initial of your mother's first name Box 3 – The first initial of your father's first name Boxes 4 &amp; 5 – Your two digit birth month Box 6 – The number of older siblings you have</p> <p>If any of these are not applicable use an X</p>
			-												
1	2	3		4	5	6									

1. What is the difference between a compiler and an interpreter?
2. What is the typical structure of compilers?
3. What is compiler front end?
4. What is compiler back end?
5. What is lexing?
6. What is parsing?
7. What is intermediate representation - IR?
8. What are the common forms of IR?
9. How does compiler check program semantics?
10. How does compiler generate code?