## Midterm Review Sheet

This test will consist of 10 questions that are similar in many ways to the questions that you have had on the quizzes. There is also an extra credit question. You will have the full class period to complete the test. Generally the way I try to lay out tests so they will have 4 short answer questions, 3 coding questions, and 3 tracing questions. The test can include any material that we have covered in class so far though I'm not going to be putting GUIs on it. Below is a list of the general topics we have covered and some of the main points that I might expect you to know about them.

## **Object-Orientation**

	Orientation
	Encapsulation.
	Separation of interface from implementation.
	Know what objects are and why we consider them useful.
	Know what you should do in code to use this model more effectively.
Classes	
	You need to understand the basics of class based OOPLs.
	What is the function of a class? How does it differ from an object?
	Know what the different types of inner classes are and what they do.
UML	Know what the different types of inner classes are and what they do.
UNIL	Know the basis of class discourse and he ship to draw and
I D.	Know the basics of class diagrams and be able to draw one.
Java Ba	
	Understand the basic syntax and semantics of Java. You will have to write some code.
	Know how Java classes are laid out and the different things that you can put into them.
	What does import mean and do?
	Know the differences between primitives and objects.
	Understand the Java syntax, including method invocation.
Inherita	nce in Java
	What is inheritance? What roles can it play in a language?
	Why do we use inheritance?
	What are Interfaces in Java? How are they different from classes?
	Be able to describe the limitations on inheritance in Java.
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