

COMP1008

Object-Oriented Programming

COMP1007 -> COMP1008

- COMP1008 directly continues the Java part of COMP1007.
- There is a COMP1008 mailing list
 - Make sure you register on it!
 - Email 1008-request, put join on subject line.
 - Only use your UCL CS email address.

Course Content

- Focus on Object-Oriented Programming with classes and objects
- Inheritance
- Exceptions
- Interfaces and abstract classes
- UML class diagrams
- Implementing core data structures
 - Linked lists, trees, hash tables

What you should learn...

- Have a good knowledge of a large part of the Java programming language.
- Be able to undertake object-oriented programming.
- Create well designed classes.
- Be able to implement core data structures.

Lectures

- 3 hours per week
- Thursday 1-3pm, JZ Young LT (2 hours)
- Friday 11-12am, Archeology LT
- Reading Week is week 6 (13th-17th Feb).

Problem and Lab classes

- Problem classes, Lab classes and exercises will continue.
 - Starting from Monday 16th.
 - See the emails.

Coursework

- 1 Test
- 1 Mini-Project
- Also Programming Exercises
- And Problem Classes

Plagiarism

- Don't do it.
- Don't copy or steal others work.
- Always reference sources.

Reading this term

- Finish reading all chapters in Part I.
- Spend time studying the language reference in Part IV.
- Start reading Part II.
- Seek out interesting books and web sites on Java and programming (and read them!).

Remember...

- Lectures can't cover everything:
 - Provide some context,
 - Introduce key ideas and concepts,
 - Look at examples,
 - And, most importantly, tell you what you need to go away and learn about by yourself.

Hard Work!

- Only 9 or so more weeks of teaching...
- Requires 100% effort.
- Cannot afford to waste time.

Review of progress so far

- Core imperative programming:
 - variables & assignment.
 - sequence, iteration and selection.
 - types and type checking.
 - methods, method parameters and return values.
 - scope and lifetime.

Review of progress so far (2)

- Simple one class programs:
 - Class and Object.
 - Instance variables and methods.
 - Use of library classes (String etc.).
 - Simple I/O.
- Learnt a subset of the Java language.
- Written lots of programs!
- Done a mini-project.

Just About Java?

- Java is the course language
- But there are other OO languages
 - Smalltalk, C++, Objective-C, Eiffel
 - Python, Ruby
- The syntax may differ but all support the key OO concepts and structures.
- Will be showing examples to compare with Java.
- You are encouraged to try them out.