

# Advanced Programming (IT)

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## Contents

<b>Formalities</b>	<b>1</b>
Assessment . . . . .	1
Lectures and labs . . . . .	1
Venues . . . . .	1
Etiquette . . . . .	1
Texts . . . . .	2
Contact . . . . .	2
<b>Aims &amp; timetable</b>	<b>2</b>
Aims . . . . .	2
Main Topics . . . . .	2

## Formalities

### Assessment

- 70% exam
- 30% coursework
- More details on both to be confirmed

### Lectures and labs

- All sessions on Tuesdays!
- 11-13: Lecture
- 14-15: Lab

### Venues

- Please check MyCampus for up-to-date lecture Venues
- Note: MyCampus will have a venue for the 2-3 session. Ignore this, it's in the lab

### Etiquette

- I will write example programs in the lectures
  - Feel free to bring laptops and do the same

- I'm very happy to address additional topics that you come across in your projects
- I'm also happy to answer lab questions in the lectures
  - Can't answer many questions in a one hour lab
- Ask questions any time...
  - In class, labs or Moodle forums
- Will go through lab exercise in next lecture
- Office hour: we need to co-ordinate an hour where you and I are both free...

## Texts

- Big Java
  - I'm using 3rd ed.
  - I also have 5th Ed (early objects)
  - In recent editions, useful stuff is online only!
- Most things you need can be found in the online Java documents.
- I don't think it is essential to buy a book for this course

## Contact

- [simon.rogers@glasgow.ac.uk](mailto:simon.rogers@glasgow.ac.uk)
- Room S123, Lilybank Gardens
- Moodle forums

## Aims & timetable

### Aims

- Build on semester 1 Java
- Develop a *deeper* understanding of programming (in Java)
- Design and write lots of code from scratch
- Be familiar with advanced concepts required in many applications including:
  - Threading
  - Distributed systems

## Main Topics

- Semester 1 recap and Java basics
- Concurrency
- Distributed systems
- Design patterns