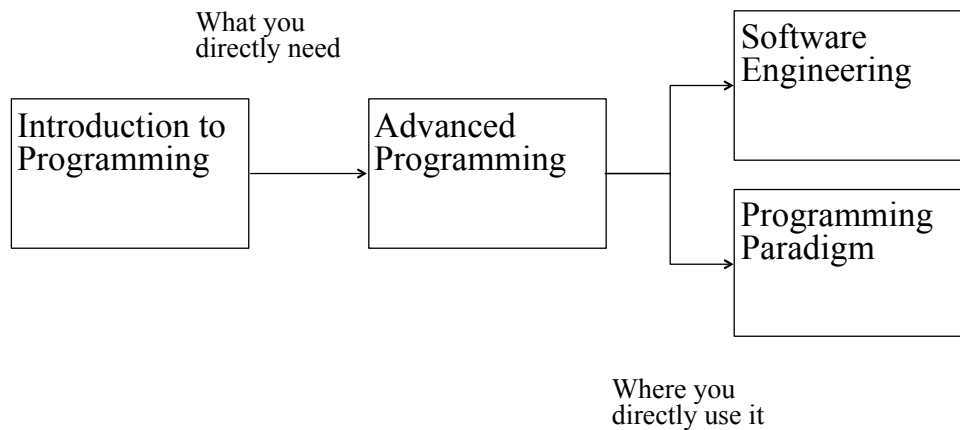

Advanced Programming

Barbara Russo

Advanced Programming

- Advanced techniques of java programming (e.g., XML reading and writing)
- Advanced knowledge of object oriented programming (e.g., Liskov principle, memory management)
- Advanced methods of programming (e.g., test driven development)
- Arduino workshop

Learning workflow



Some tools

- Shell
- Eclipse, IDE platform to develop and manage the Java project,
- Java SE 8, JDK8
- Arduino base kit and IDE

The lab

- Exercises with increasing difficulty
- A small project

Reading list

- Java <http://java.sun.com/>
- Slides of the course @ <http://www.inf.unibz.it/~russo/AdvancedProgramming.html>
- Schildt Herbert, Java the Complete Reference, 9th edition 2014, downloadable from the web page more than 40 MB!!
- Stackoverflow
- Eck D.J. Introducing to programming using Java, math.hws.edu/javanotes

Final assessment

- Lab exercises and final project (50%)
- Oral exam (50% with no midterm otherwise 25%)
- Midterm evaluation (is voluntary, but it is advisable) (25%)

Final assessment

- Format: Step by step and All in one
- Step by step. The evaluation is performed during the semester
 - Follow the lab assignments step by step during the semester
 - Midterm at mid semester (voluntary)
 - Oral at the exam date
- All in one. The whole evaluation is performed at the exam date
 - The lab assignments are submitted one week before the exam date
 - Midterm at mid semester (voluntary)
 - Oral at the exam date

Final assessment

- Midterm
- Project (weekly deliveries, biweekly assessment, and final project)

Final assessment

- To earn up to two points on top of your average grade for the oral exam
 - Quizzes
 - Arduino workshop (with final quiz)