Schedule of the course

Programming Concepts in Scientific Computing EPFL, Master class

September 16, 2023

Program by day

- ► Wednesday 20-th Sep:
 - Presentation of the class
 - ▶ What is a program ?
 - Compilation process
 - Exercises: on Linux and manual compilation
- ► Friday 22-th Sep: Using GIT and CLion + Exercises Chapter 1
- ▶ Wednesday 27-th Sep: Chapter 2&3 Flow control, File Input and Output
- ► Friday 29-th Sep: Exercises on Chapter 2 and 3

Program by day

- Wednesday 04-th Oct: Chapter 4: pointers + GDB
- ► Friday 06-th Oct: Chapter 4 exercises + GDB exercises
- Wednesday 11-th Oct: Chapter 5: blocks functions and reference variables
 + start exercises
- Friday 13-th Oct: Chapter 5: exercises
- Wednesday 18-th Oct: Chapter 6: An introduction to classes: structuring code + exercises
- Friday 20-th Oct: Chapter 6: exercises
- Wednesday 25-th Oct: Chapter 7: Inheritance and derived classes: about code reuse
- Friday 27-th Oct: Chapter 7: exercises
- Wednesday 01-th Nov: Chapter 8: classes of Templates + STL
- Friday 03-th Nov: Chapter 8: exercises

Program by day

- ▶ Wednesday 08-th Nov: Chapter 9 (Errors and exceptions) + modern C++
- ► Friday 10-th Nov: Chapter 9 & STL exercises
- Wednesday 15-th Nov: Eigen libary (not in book)
- Friday 17-th Nov: Exercises on Eigen
- Wednesday 22-th Nov: Chapter 10 & 12: Design of code and projects presentations
- ► Friday 24-th Nov: Assignment of the projects
- Wednesday 29-th Nov: CMake, Doxygen and start of the project developments
- Friday 01-th Dec: Session dedicated to work on the projects
- Wednesday 06-th Dec: Session dedicated to work on the projects
- ► Friday 08-th Dec: Session dedicated to work on the projects
- Wednesday 13-th Dec: Session dedicated to work on the projects
- Friday 15-th Dec: Deadline for projects