

# UE Object-oriented and software design



Level  
Baccalaureate  
+4



ECTS  
3 credits



Component  
UFR IM2AG  
(informatique,  
mathématiques  
et  
mathématiques  
appliquées)



Semester  
Automne

- > **Teaching language(s):** English
- > **Open to exchange students:** Yes
- > **Code d'export Apogée:** GBX7AM10

## Presentation

### Description

This course provides an introduction to the basic concepts of object-oriented programming in C++: classes and encapsulation, operator overloading, generic classes (templates), STL (Standard Template Library), inheritance and derived classes, polymorphism and virtual functions.

Lab sessions illustrate these concepts, and applications for applied mathematics.

### Course parts

CM/TD	Lectures (CM) & Teaching Unit (UE)	15h
TP	Practical work (TP)	18h

## Useful info



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## Contacts

Program director

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## Campus

› [Grenoble - University campus](#)