

# UE Programming project (Compiler design)



Level  
Baccalaureate  
+4



ECTS  
3 credits



Component  
UFR IM2AG  
(informatique,  
mathématiques  
et  
mathématiques  
appliquées)



Semester  
Automne

- > **Teaching language(s):** English
- > **Teaching type:** Personal and professional project
- > **Open to exchange students:** No
- > **Code d'export Apogée:** GBX7MO09

## Presentation

### Description

The aim of this project is to develop a simple compiler. That is, a translator from a source language to a target language. The source language is a typed functional language, inspired by ML (eg. OCaml), with other features such as message-passing concurrent processes. The target language is Java. The implementation language is free, but Java is encouraged as some building blocks are provided to the student (notably a parser). The project consists in a few independent steps including a parser, code analysis (typechecking), translation to a generic intermediary language, and target code generation.

**Period :** Semester 7

## Useful info



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## Contacts

Program director  
Gwenael Delaval

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## Place

➤ Grenoble

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## Campus

➤ Grenoble - University campus