

## Course Descriptions Bachelor 2019-2020

Course Title Programming

Course Code EBC2016

ECTS Credits 6,5

Assessment Whole/Half Grades

Period	Start	End	Mon	Tue	Wed	Thu	Fri
2	28-10-2019	20-12-2019	L	X		X	

Level Intermediate

Coordinator Andre Berger For more information: a.berger@maastrichtuniversity.nl

Language of instruction English

Goals This course will introduce you to the fundamentals of computer programming. It is designed for students with no prior programming experience. The goals of the course are to learn how to use the fundamental building blocks of a programming language and to get practice in the several steps of algorithm and software development. By the end of the course you should have a strong understanding of the fundamentals of Computer Science and the Java programming language.

Description You will first learn the basic principles of programming: data types, variables, statements, assignments, control statements, loops, file input/output, arrays, methods, objects, classes, etc. We will use Java, a high-level, cross-platform, and well-constructed computer programming language to demonstrate those principles. Further on, you will acquire skills and get practice in the several steps of basic algorithm and software development: from a description of the problem, to an idea about an approach and justified data structures, and finally the translation of the approach into an implemented program.

Literature Recommended literature : introductory textbooks on JAVA Programming (examples listed in course manual).

Prerequisites Analysis I, Linear Algebra, Optimisation, strong mathematical skills.

Teaching methods PBL / Lecture / Assignment / Groupwork

Assessment methods Attendance / Participation / Written Exam / Assignment

Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

This course belongs to the following programme / specialisation

Bachelor Econometrics and Operations Research Year 2 Compulsory Course(s)