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)