

## Course Descriptions None 2017-2018

Course Title	Programming																
Course Code	EBC2016																
ECTS Credits	6,5																
Assessment	Whole/Half Grades																
Period	<table><thead><tr><th>Period</th><th>Start</th><th>End</th><th>Mon</th><th>Tue</th><th>Wed</th><th>Thu</th><th>Fri</th></tr></thead><tbody><tr><td>2</td><td>30-10-2017</td><td>22-12-2017</td><td>L</td><td>X</td><td></td><td>X</td><td></td></tr></tbody></table>	Period	Start	End	Mon	Tue	Wed	Thu	Fri	2	30-10-2017	22-12-2017	L	X		X	
Period	Start	End	Mon	Tue	Wed	Thu	Fri										
2	30-10-2017	22-12-2017	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	Robert Sedgewick, Kevin Wayne: 'Introduction to Programming in Java: An Interdisciplinary Approach', Pearson Education Limited, ISBN 978-1292025568.																
Prerequisites	Analysis I, Linear Algebra, Optimisation, strong mathematical skills.																
Teaching methods	PBL / Lecture / Assignment / Groupwork																
Assessment methods	Participation / Written Exam																
Evaluation in previous academic year	For the complete evaluation of this course please click <a href="http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM">http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM</a>																
This course belongs to the following programme / specialisation	Bachelor Econometrics and Operations Research      Year 2 Compulsory Courses																