Course Specifications
Valid as from the academic year 2018-2019

Introduction to Programming (F000902)

Course size
Credits 5.0
Study time 150 h
Contact hrs 30.0 h

Course offerings and teaching methods in academic year 2018-2019
A (semester 2) Dutch seminar: practical PC room classes 30.0 h

Lecturers in academic year 2018-2019
Poels, Geert EB24 lecturer-in-charge

Offered in the following programmes in 2018-2019
Bachelor of Science in Economics 5 A
Bachelor of Science in Business Economics 5 A

Teaching languages
Dutch

Keywords
principles of programming, programming, Java

Position of the course
In this course students get acquainted with the development of software applications. The course focuses on a programming language (Java).

Contents
1 Objects and classes
2 Class definitions
3 Interaction between objects
4 Grouping objects (e.g., ArrayList)
5 Advanced programming concepts and techniques (e.g., Random, HashMap, HashSet)
6 Collections with fixed size (arrays)

Initial competences
Informatica.

Final competences
Be able to program with Java in BlueJ (limited to the application of the basic principles of Object Orientation described in Part 1 of the textbook)

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract
Access to this course unit via an exam contract is unrestricted

Teaching methods
Seminar: practical PC room classes

Extra information on the teaching methods
All sessions take place in a computer room so learning of new concepts and techniques will immediately be followed by programming exercises requiring students to apply these new concepts and techniques.

Learning materials and price

(Approved)
Textbook: Programmeren in Java met BlueJ by Barnes & Kölling (Pearson)
BlueJ programming environment (via Athena)
Study website: Pearson XTRA-website bij Programmeren in Java met BlueJ
Additional material available on Minerva: slides, Java projects, programming exercises, solutions, example exams

References
none

Course content-related study coaching
via Minerva: Forum, Studentenpublicaties, Dropbox
Individual guidance is possible

Evaluation methods
end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
Open book examination, skills test

Examination methods in case of periodic evaluation during the second examination period
Open book examination, skills test

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Extra information on the examination methods
Open book exam on PC. The ability to program new applications with Java, with the same level of difficulty as the applications realised during the (last) class sessions, is examined.

Calculation of the examination mark
Single score for the exam

Facilities for Working Students
None

(Approved)