



Faculty of Arts and Social Science
Information Systems

Syllabus

Introductory Programming

Course Code:	ISGA04
Course Title:	Introductory Programming <i>Grundläggande programmering</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
IKA (Information Systems)

Course Approval

The syllabus was approved by the Faculty of Arts and Social Science 2016-01-22, and is valid from the Autumn semester 2016 at Karlstad University.

Prerequisites

ISGA01 Information Systems and IT, 7.5 ECTS cr or ISGA90 Introduction to IT Design, 7.5 ECTS cr, or ISGA06 Prototyping: To Explore and Communicate Design Concepts, 7.5 ECTS cr, or equivalent. Field-specific eligibility A5 (Mathematics 2a or 2b or 2c, Civics 1b or 1a1 or 1a2) or field-specific eligibility 5 (Mathematics B and Civics A)

Learning Outcomes

Upon completion of the course, students should be able to:

- independently design programs to solve simple problems in a high level language,
- use a programming environment to compile and run simple programs, and
- explain how a simple program, written in a high level language, works.

Content

The course deals with the basics of problem solutions in a high level language.

The course comprises the following components:

- basic semantics in programming language
- selection
- iteration
- functions
- data types
- memory handling
- sorting and searching algorithms

Instruction is in the form of lectures, exercises and laboratory sessions.

Reading List

See separate document.

Examination

Assessment is in the form of a written exam.

Grades

One of the grades Distinction (VG), Pass (G) or Fail (U) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.