



University of Pretoria Yearbook 2017

Imperative programming 132 (COS 132)

Qualification Undergraduate

Faculty [Faculty of Engineering, Built Environment and Information Technology](#)

Module content

This module introduces imperative computer programming, which is a fundamental building block of computer science. The process of constructing a program for solving a given problem, of editing it, compiling (both manually and automatically), running and debugging it, is covered from the beginning. The aim is to master the elements of a programming language and be able to put them together in order to construct programs using types, control structures, arrays, functions and libraries. An introduction to object orientation will be given. After completing this module, the student should understand the fundamental elements of a program, the importance of good program design and user-friendly interfaces. Students should be able to conduct basic program analysis and write complete elementary programs.

Module credits 16.00

Programmes

[BCom Statistics](#)

[BEng Computer Engineering](#)

[BEng Computer Engineering ENGAGE](#)

[BEng Electrical Engineering](#)

[BEng Electrical Engineering ENGAGE](#)

[BEng Electronic Engineering](#)

[BEng Electronic Engineering ENGAGE](#)

[BIS Multimedia](#)

[BIT Information Technology](#)

[BSc Computer Science](#)

[BSc Information and Knowledge Systems](#)

[BSc Actuarial and Financial Mathematics](#)

[BSc Mathematical Statistics](#)

[BSc Mathematics](#)

Service modules

Faculty of Economic and Management Sciences

Faculty of Natural and Agricultural Sciences

Prerequisites

APS of 30 and level 5 (60-69%) Mathematics

Contact time

1 tutorial per week, 1 practical per week, 3 lectures per week



Language of tuition Separate classes for Afrikaans and English

Academic organisation Computer Science

Period of presentation Semester 1

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