University of Pretoria Yearbook 2017

BScHons Computer Science (12244001)

Duration of study	1 year
Total credits	120

Programme information

This degree programme is offered in English only. The degree is conferred on a student who successfully completes at least 120 credits of coursework in Computer Science at honours level. Consult G Regulations G.16 to G.29

Admission requirements

A BSc degree, majoring in Computer Science from a South African university (or equivalent) with an average of 60% over all third-year computer science modules, is required for admission to this degree programme. Students from outside South Africa need to obtain a certificate from the South Afican Qualifications Authority (SAQA) before admission will be considered. The Head of Department may prescribe additional conditions for admission.

Other programme-specific information

The Dean, on the recommendation of the Head of Department, may approve a stipulated limited extension of the prescribed period of study.

Details regarding postgraduate modules are available at www.cs.up.ac.za.

Note that some of the elective modules might not be presented each year. Consult the departmental website for the list of modules presented in the current year.

One elective module can be selected from outside the Department of Computer Science, subject to the approval of the programme manager, and provided that there are no lecture and exam clashes with Computer Science modules.

Examinations and pass requirements

In calculating marks, G Regulation G.12.2 is applicable. However, a student is required to obtain at least 50% in an examination in a module where no semester or year mark is required. In those cases where a year mark or semester mark is available, a subminimum of 40% must be obtained in the examination.
The Dean may, on the recommendation of the admissions committee, cancel the studies of a student who fails more than one module in an academic year. A module may only be repeated once. No supplementary examinations are granted at postgraduate level.

Pass with distinction

The BScHons degree is awarded with distinction to a candidate who obtains a weighted average of at least 75% in all the prescribed modules and who did not fail any module.

Curriculum: Final year

Minimum credits: 120

Core modules

Research report 700 (COS 700) - Credits: 30.00

Elective modules

Artificial intelligence (I) 710 (COS 710) - Credits: 15.00
Artificial Intelligence (II) 711 (COS 711) - Credits: 15.00
Computer and information security (I) 720 (COS 720) - Credits: 15.00
Computer and information security (II) 721 (COS 721) - Credits: 15.00
Software engineering (I) 730 (COS 730) - Credits: 15.00
Software engineering (II) 731 (COS 731) - Credits: 15.00
Formal aspects of computing (I) 740 (COS 740) - Credits: 15.00
Formal aspects of computing (II) 741 (COS 741) - Credits: 15.00
Educational software development 750 (COS 750) - Credits: 15.00
Data mining 781 (COS 781) - Credits: 15.00
Generic programming 782 (COS 782) - Credits: 15.00
Digital forensics and investigations 783 (COS 783) - Credits: 15.00
Computer networks 784 (COS 784) - Credits: 15.00
Computer graphics 785 (COS 785) - Credits: 15.00
Parallel and distributed computing 786 (COS 786) - Credits: 15.00
Spatial databases 787 (COS 787) - Credits: 15.00
Information hiding 788 (COS 788) - Credits: 15.00
Special topics (I) 790 (COS 790) - Credits: 15.00
Special topics (II) 791 (COS 791) - Credits: 15.00

The information published here is subject to change and may be amended after the publication of this information. The General Regulations (G Regulations) apply to all faculties of the University of Pretoria. It is expected of students to familiarise themselves well with these regulations as well as with the information contained in the General Rules section. Ignorance concerning these regulations and rules will not be accepted as an excuse for any transgression.