BScHons Computer Science (12244001)

Minimum duration of study	1 year
Total credits	120
NQF level	08

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 an equivalent) with a weighted average of at least 60% over all third-year modules in the Computer Science major; or a BIS Multimedia degree from the University of Pretoria with a weighted average of at least 60% for COS 301 and at least three third-year Computer Science modules.
- The departmental Postgraduate Committee reserves the right to make a thorough assessment of the applicant's academic transcript and to decide if the applicant may be admitted.

Other programme-specific information

The Dean, on the recommendation of the relevant 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

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
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