

University of Pretoria Yearbook 2024

BScHons *Computer Science* (12244001)

Department Computer Science

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. Refer also to G16-G29.

Admission requirements

1. BSc degree majoring in Computer Science, from a South African university with a weighted average of at least 60% over all third-year modules in the Computer Science major **or** BIS (Multimedia) degree from the University of Pretoria with a weighted average of at least 60% for Software Engineering (COS 301) (or equivalent) and at least three third-year Computer Science modules **or** equivalent degree (SAQA-accredited) with a weighted average of at least 60% over all final-year modules in the Computer Science major
2. An entrance/admissions examination may be required

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, G26 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% (not rounded) 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

General Academic Regulations and Student Rules

The [General Academic Regulations \(G Regulations\)](#) and [General Student Rules](#) apply to all faculties and registered students of the University, as well as all prospective students who have accepted an offer of a place at the University of Pretoria. On registering for a programme, the student bears the responsibility of ensuring that they familiarise themselves with the General Academic Regulations applicable to their registration, as well as the relevant faculty-specific and programme-specific regulations and information as stipulated in the relevant yearbook. Ignorance concerning these regulations will not be accepted as an excuse for any transgression, or basis for an exception to any of the aforementioned regulations. The G Regulations are updated annually and may be amended after the publication of this information.

Regulations, degree requirements and information

The faculty regulations, information on and requirements for the degrees published here are subject to change and may be amended after the publication of this information.

University of Pretoria Programme Qualification Mix (PQM) verification project

The higher education sector has undergone an extensive alignment to the Higher Education Qualification Sub-Framework (HEQSF) across all institutions in South Africa. In order to comply with the HEQSF, all institutions are

legally required to participate in a national initiative led by regulatory bodies such as the Department of Higher Education and Training (DHET), the Council on Higher Education (CHE), and the South African Qualifications Authority (SAQA). The University of Pretoria is presently engaged in an ongoing effort to align its qualifications and programmes with the HEQSF criteria. Current and prospective students should take note that changes to UP qualification and programme names, may occur as a result of the HEQSF initiative. Students are advised to contact their faculties if they have any questions.