

# University of Pretoria Yearbook 2022

## BIS (Multimedia) (12131013)

**Department** Information Science

**Minimum duration of study** 3 years

**Total credits** 469

**NQF level** 07

### Programme information

Modern information technology offers the possibility of information products being designed and created comprising various types of media over and above the traditional text medium. Information technology therefore results in the convergence of various previously separate traditional media. There is not a single discipline that handles the combination of information products. The multimedia qualification in the department of Information science addresses this shortcoming. Any type of institution in all economic spheres, including government, may profit from a multimedia approach to information design, organisation and retrieval.

Multimedia documents include text, graphics, sound, video and animation. The purpose of this qualification is to enable students to understand the necessary concepts to build multimedia products and maintain the products. This programme is therefore a combination of theory and practice. The explosion of the web, as well as the exponential growth and power of information technology, requires the introduction of this degree following international trends.

### Admission requirements

#### Important information for all prospective students for 2022

- The admission requirements apply to students who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications.**
- **Applicants with qualifications other than the abovementioned** should refer to:
  - **Brochure:** Undergraduate Programme Information 2022: Qualifications other than the NSC and IEB, available at [click here](#).
- **Citizens from countries other than South Africa (applicants who are not South African citizens)** should also refer to:
  - **Brochure:** Newcomer's Guide 2021, available at [click here](#).
  - **Website:** [click here](#).
- **School of Tomorrow (SOT), Accelerated Christian Education (ACE) and General Education Development Test (GED):** The University of Pretoria no longer accepts qualifications awarded by these institutions.
- **National Certificate (Vocational) (NCV) Level 4:** The University of Pretoria may consider NCV candidates, provided they meet the exemption for bachelor's status criteria and the programme requirements.

#### Transferring students

A transferring student is a student who, at the time of application for a degree programme at the University of Pretoria (UP) –

- is a registered student at another tertiary institution, **or** was previously registered at another tertiary institution and did not complete the programme enrolled for at that institution, and is not currently enrolled at a tertiary institution, **or** has completed studies at another tertiary institution, but is not currently enrolled at a tertiary institution, **or** has started with tertiary studies at UP, then moved to another tertiary institution and wants to be readmitted at UP.

A transferring student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** having completed a higher certificate at a tertiary institution with faculty-specific subjects/modules passed (equal to or more than 50%), as well as complying with faculty rules on admission;
- previous academic performance (must have passed all modules registered for up to the closing date of application ) or as per faculty regulation/promotion requirements;
- a certificate of good conduct.

**Note:** Students who have been dismissed at the previous institution due to poor academic performance, will not be considered for admission to UP.

### Returning students

A returning student is a student who, at the time of application for a degree programme –

- is a registered student at UP, and wants to transfer to another degree at UP, **or** was previously registered at UP and did not complete the programme enrolled for, and did not enrol at another tertiary institution in the meantime (including students who applied for leave of absence), **or** has completed studies at UP, but is not currently enrolled or was not enrolled at another tertiary institution after graduation.

A returning student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** previous academic performance (should have a cumulative weighted average of at least 50% for the programme enrolled for);
- having applied for and was granted leave of absence.

**Note:** Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP. The Admissions Committee may consider such students if they were not dismissed more than twice. Only ONE transfer between UP faculties will be allowed, and a maximum of two (2) transfers within a faculty.

### Important faculty-specific information on undergraduate programmes for 2022

- The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met.
- The following persons will be considered for admission: Candidates who have a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used for the conditional admission of prospective students.

- A valid qualification with admission to degree studies is required.
- Minimum subject and achievement requirements, as set out below, are required.
- All modules will be presented in English, as English is the language of tuition, communication and correspondence.

**University of Pretoria website:** [click here](#)

### Minimum requirements

#### Achievement level

#### English Home Language or English First Additional Language

#### Mathematics

#### APS

NSC/IEB

NSC/IEB

4

5

**30**

## Other programme-specific information

### Please Note:

The semester in which these modules are offered may vary from year to year.

Students who wish to continue with a BScHons (CS) should consult the Computer Science department for the correct admission requirements to the degree. COS 301 and three COS electives are compulsory admission requirements for BScHons (CS).

## Promotion to next study year

### Refer also to General Academic Regulation G4.

- A student must pass all the modules of the first year of study, before he or she is permitted to register for any module of the third year of study. Module prerequisites remain applicable. Exceptions to this rule will be considered by the relevant head of department and the Dean.
- A new first-year student, who has failed in all the prescribed modules of the programme at the end of the first semester, will not be permitted to proceed to the second semester in the School of Information Technology.
- A student who has not passed at least 70% of the credits of the current year of study after the November examinations will not be re-admitted to the School of Information Technology.
- Students who fail a module for a second time, forfeit the privilege of registering for any modules of an advanced year of study.
- Students whose academic progress is not acceptable can be suspended from further studies. Refer to the following important regulation: G4 and/or regulations as they appear for the applicable programmes.
- A student who is excluded from further studies in terms of the stipulations of the above-mentioned regulations will be notified in writing by the Dean or admissions committee at the end of the relevant semester.
- A student who has been excluded from further studies may apply in writing to the admissions committee of the School of Information Technology for readmission on or before 12 January.
- Should the student be readmitted by the admissions committee, strict conditions will be set which the student must comply with in order to proceed with studies.
- Should the student not be readmitted to further studies by the admissions committee, he/she will be informed in writing.
- Students who are not readmitted by the admissions committee have the right to appeal to the Senate

Committee for Admission, Evaluation and Academic Support.

k. Any decision taken by the Senate Committee for Admission, Evaluation and Academic Support is final.

## Pass with distinction

A degree (undergraduate) in the School of IT is conferred with distinction on a student who did not repeat any module of his/her final year, obtained a weighted average of at least 75% (not rounded) in all the prescribed modules for the final year, provided that a subminimum of 65% is obtained in each of these modules and provided that the degree is completed in the prescribed minimum period of time. Ad hoc cases will be considered by the Dean, in consultation with the relevant head of department.



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## Curriculum: Year 1

**Minimum credits: 144**

### Fundamental modules

Academic information management 111 (AIM 111) - Credits: 4.00

Academic information management 121 (AIM 121) - Credits: 4.00

Academic literacy for Information Technology 121 (ALL 121) - Credits: 6.00

Academic orientation 112 (UPO 112) - Credits: 0.00

### Core modules

Program design: Introduction 110 (COS 110) - Credits: 16.00

Operating systems 122 (COS 122) - Credits: 16.00

Imperative programming 132 (COS 132) - Credits: 16.00

Introduction to computer science 151 (COS 151) - Credits: 8.00

Multimedia 110 (IMY 110) - Credits: 12.00

Multimedia 120 (IMY 120) - Credits: 12.00

Information science 110 (INL 110) - Credits: 12.00

Information science 120 (INL 120) - Credits: 12.00

Information science 140 (INL 140) - Credits: 12.00

Visual design (1) 102 (VIO 102) - Credits: 16.00



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## Curriculum: Year 2

**Minimum credits: 184**

### Fundamental modules

Community-based project 202 (JCP 202) - Credits: 8.00

### Core modules

Data structures and algorithms 212 (COS 212) - Credits: 16.00

Software modelling 214 (COS 214) - Credits: 16.00

Netcentric computer systems 216 (COS 216) - Credits: 16.00

Concurrent systems 226 (COS 226) - Credits: 16.00

Computer organisation and architecture 284 (COS 284) - Credits: 16.00

Multimedia 210 (IMY 210) - Credits: 16.00

Multimedia 211 (IMY 211) - Credits: 20.00

Multimedia 220 (IMY 220) - Credits: 16.00

Publishing 210 (PUB 210) - Credits: 20.00

Visual design (2) 202 (VIO 202) - Credits: 24.00



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## Curriculum: Final year

**Minimum credits: 141**

### Core modules

Multimedia: Project 300 (IMY 300) - Credits: 45.00

Multimedia 310 (IMY 310) - Credits: 30.00

Multimedia 320 (IMY 320) - Credits: 30.00

### Elective modules

Software engineering 301 (COS 301) - Credits: 27.00

Artificial intelligence 314 (COS 314) - Credits: 18.00

Database systems 326 (COS 326) - Credits: 18.00

Computer security and ethics 330 (COS 330) - Credits: 18.00

Computer networks 332 (COS 332) - Credits: 18.00

Programming languages 333 (COS 333) - Credits: 18.00

Compiler construction 341 (COS 341) - Credits: 18.00

Computer graphics 344 (COS 344) - Credits: 18.00

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

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.