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# University of Pretoria Yearbook 2021

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## BIS Multimedia (12131013)

**Department** Information Science

**Minimum duration of study** 3 years

**Total credits** 469

**NQF level** 07

**SAQA ID** 12133

### 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

- 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 are in possession of 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 lectures at the University of Pretoria are presented in English only.

### **Transferring students**

### Candidates previously registered for the BSc - Extended programme

The Admissions Committee of the faculty considers applications of candidates who were previously registered for the BSc - Extended programme, on grounds of their NSC results as well as academic merit. Such students will only be considered for the four-year programme if they have passed all the prescribed modules and obtained a minimum of 65% in the Mathematics, Physics and Chemistry modules, respectively.

### Candidates previously registered at UP or at another university

The faculty's Admissions Committee considers applications of candidates who have already completed the final NSC examination and/or were previously registered at UP or at another university, on grounds of their NSC results as well as academic merit. Candidates who were dismissed from other faculties or universities will not be considered.

### Candidates previously registered at a teacher's college or university of technology

The faculty's Admissions Committee considers the application of these candidates on the grounds of their NSC results as well as academic merit.

### Qualifications from countries other than South Africa

- Citizens from countries other than South Africa and South African citizens with foreign qualifications must comply with all the other admission requirements and the prerequisites for subjects/modules.
- In addition to meeting the admission requirements, it may be expected from candidates to write the **TOEFL, IELTS or SAT**, if required.
- Candidates must have completed the National Senior Certificate with admission to degree studies or a certificate of conditional exemption on the basis of a candidate's foreign qualifications, the so-called "Immigrant" or "Foreign Conditional Exemption". The only condition for the "Foreign Conditional Exemption" that is accepted is: 'completion of the degree course'. The exemption certificate is obtainable from Universities South Africa (USAf). Detailed information is available on the website at [click here](#).

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

#### Minimum requirements

##### Achievement level

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

NSC/IEB

AS Level

##### Mathematics

NSC/IEB

AS Level

##### APS

4

D

5

C

**30**

\* Cambridge A level candidates who obtained at least a D in the required subjects, will be considered for admission.

\* International Baccalaureate (IB) HL candidates who obtained at least a 4 in the required subjects, will be considered for admission.

## 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).

## 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% 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



## 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 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 each student to familiarise himself or herself 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.