University of Pretoria Yearbook 2016

BIS Multimedia (12131005)

Duration of study	3 years
Total credits	477
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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

- In order to register NSC/IEB/Cambridge candidates must comply with the minimum requirements for degree studies as well as with the minimum requirements for the relevant study programme.
- Life Orientation is excluded when calculating the APS.
- Grade 11 results are used in the provisional admission of prospective students.
- A valid National Senior Certificate (NSC) with admission to degree studies is required.
- Minimum subject and achievement requirements as set out below are required. On first-year level a student has a choice between Afrikaans and English as language medium.
- In certain cases tuition may be presented in English only for example in electives where the lecturer may not speak Afrikaans or in cases where it is not economically or practically viable.

Minimum requirements for 2016								
Achievement level								
Afrikaans or English				**Mathematics**				**APS**
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
4	3	D	D	5	3	C	C	30 (26-29 admission based on the NBT)

Should a candidate obtain an APS of 26 to 29 consideration for admission will be based on the results of the NBT provided the quotas regarding student numbers have not been reached.

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 head of the relevant department.

Curriculum: Year 1

Minimum credits: 144

Fundamental modules

Academic information management 101 (AIM 101) - Credits: 6.00
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
Software modelling 121 (COS 121) - 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
Imperative programming 132 (COS 132) - Credits: 16.00

Curriculum: Year 2

Minimum credits: 184

Core modules

Data structures and algorithms 212 (COS 212) - Credits: 16.00
Netcentric computer systems 216 (COS 216) - Credits: 16.00
Operating systems 222 (COS 222) - 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
Community-based project 202 (JCP 202) - Credits: 8.00
Publishing 210 (PUB 210) - Credits: 20.00
Visual design (2) 202 (VIO 202) - Credits: 24.00

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