

# University of Pretoria Yearbook 2016

## BCom Informatics: Information Systems (07130172)

**Duration of study** 3 years

**Total credits** 422

### Programme information

Informatics studies the application and use of the computer and information systems within the organisation. Our students' strength lies in their broad background of the economic and management sciences, which implies that the world of business is nothing sinister to them. The use of information technology by organisations is growing exponentially and new, more complex and challenging applications are explored and developed on a daily basis. It has the benefit that, in addition to the work of informatics specialists being extremely interesting, there will only be a very small chance that they will ever be without work.

The Informatics specialist has the knowledge to analyse the information needs of organisations, be that businesses, government departments, non-profit organisations or any other group where information is crucial. They not only analyse the needs but then address those needs by designing and implementing information systems. Information systems nowadays refer to computer-based systems (including mobile applications) which store and manipulate data such that people can understand, use, interpret and make decisions based on the information.

The BCom (Informatics) programme at UP is the only degree in South Africa that is internationally accredited by the Accreditation Board for Engineering and Technology (ABET) of the USA.

### Admission requirements

- To be able to register NSC 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.
- A valid National Senior Certificate (NSC) with admission to degree studies is required.
- Minimum subject and achievement requirements, as set out below, are required.
- Provisional admission to the four-year programme in the School of Engineering is only guaranteed if a prospective student complies with ALL the requirements below.

#### Note

Candidates who do not comply with the minimum requirements, set out above, but who have obtained a minimum APS of 30, an achievement level of 5 for English or Afrikaans, 6 for Mathematics and 5 for Physical Science, will be considered for provisional admission to either the four-year programme or the ENGAGE programme based on the results of the compulsory NBT.

Admission to ENGAGE in the School of Engineering will be determined by the results of the NBT, NSC results, an achievement level of 5 in Mathematics and 4 in Physical Science, as well as an achievement level of 4 in Afrikaans or English, together with an APS of 25.

Students may apply directly to be considered for the ENGAGE programme.



Minimum requirements for 2016								
Achievement Level								APS
Afrikaans or English				Mathematics				
NSC/IEB	HIGCSE	AS-Level	A-Level	NSC/IEB	HIGCSE	AS-Level	A-Level	
5	3	C	C	4	3	D	D	30

## Other programme-specific information

**Only two 14-week modules, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes.** In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level except for the modules offered at 200- and 300-level only.

If Financial accounting 211 and 221 (FRK 211 and 221) are chosen, it is compulsory to take INF 281 (3 additional credits).

Students who are deemed to be at risk of their level of academic literacy are compelled to take the following two modules:

ALL 110 Academic literacy S1; ALL 121 Academic literacy for IT S2

Students who are deemed NOT to be at risk of their level of academic literacy are compelled to take the following module:

ALL 121 Academic literacy for IT S2

### **Note:**

**Specialisation modules:** INF 301

Credits for ALL 110 will not form part of the minimum credit requirement for a programme.

**Elective modules** can only be taken if they can be accommodated in the class, test and examination timetables.

**Note: See the alphabetical list of modules for prerequisites of all modules.**

# FRK 122 is a terminating module. If FRK 122 is selected, a candidate will not be able to continue with Accounting at the 200- and 300-level. Also note that FRK 121 may be a prerequisite for a number of other modules (eg BEL 200) and it is the responsibility of the candidate to ensure that he/she makes the appropriate choice between FRK 121 and 122.

FBS 212 and 222 are terminating modules. Candidates will not be able to continue with Financial management at 300-level.

- Only candidates who meet the entrance requirements for the compulsory modules Informatics 154, 164, 171 and 271, 272 ie at least 4 (50-59%) in Mathematics in Grade 12, will be admitted to the BCom in Informatics. Admission to the BCom in Informatics can also be obtained by complying with the requirements as set out in Reg 1.2(f) of the section **Requirements for specific modules**, in which case the Dean, on the recommendation of the head of department, may allow a student to register simultaneously for Informatics 154, 164, 171 and 271, 272.
- Informatics 281 (INF 281 – 3 additional credits) is compulsory at 200-level, if Financial accounting 311 and 321

(FRK 311 and 321) are chosen.

3. If the BEM modules are chosen as electives in the second and third year, the first-year modules will have to be included as extra modules.
4. Students who plan to apply for the BComHons (Internal Auditing) degree must discuss it with the relevant head of department at the beginning of the second year of study.
5. INF 301 is a module that combines INF 315, INF 324, INF 354 and INF 370. Students register for all these modules, but receive a calculated percentage for INF 301. Please refer to table below:

Module outstanding	Register for	Module in which student has to attend classes	Examination Exam paper	Write with
INF 315	INF 315	INF 315 + INF 301	INF 315	INF 315
INF 324	INF 324	INF 324 + INF 301	INF 324	INF 324
INF 354	INF 354	INF 354 + INF 301	INF 354	INF 354
INF 370	INF 370	INF 370 + INF 301	INF 370	INF 370

### "Major subject"

To be considered a "major subject" the equivalent of four 14-week modules, including two at 300-level, must be passed provided that:

- the following modules which are offered at 300-level only, are also considered "major subjects": Labour law 311 (ABR 311), Labour relations 320 (ABV 320), and International business management 359 and 369 (OBS 359 and 369);
- only two 14-week modules, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes. In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level, except for modules offered on 200- and 300-level only.

A candidate who has

- a. passed the Grade 12 examination in Mathematics with at least 5 (60-69%) obtains admission to the module COS 110 in Computer Science; or has passed COS 153 or COS 131 or COS 132 and WTW 133, obtains admission to the module COS 110 in Computer Science;
- b. passed the Grade 12 examination in Mathematics with at least 4 (50-59%), will be admitted to WTW 134, WTW 115 and WTW 152 and with at least 5 (60-69%) to WTW 114, WTW 126, WTW 158 and WTW 161 in Mathematics, and to WST 111 in Mathematical statistics. (For the degree programme in Actuarial and Financial Mathematics, 80% in Mathematics is required.)
- c. obtained at least 5 (60-69%) in Mathematics in the Grade 12 examination, or at least 50% in both Statistics 113, 123 will be admitted to Statistics (STK 110 and STK 120);
- d. been admitted to the degree BCom (Accounting Sciences), will be admitted to Financial accounting 100 (FRK 100) ONLY on achieving a result in the compulsory accounting proficiency test written before lectures commence, that is acceptable. Candidates who did not take Grade 12 Accounting will be admitted to Financial accounting 101 (FRK 101) irrevocably. Accounting in Grade 12 is not a prerequisite for admission to any BCom degree programme;

- e. obtained at least 4 (50-59%) in Mathematics in the Grade 12 examination, or at least 60% in both Statistics 113 and 123 will be admitted to Informatics 112 and Economics 120, and at least 6 (70-79%) in Mathematics or 60% in both Statistics 113 and 123 will be admitted to EKN 113 and 123;
- f. obtained at least 5 (60-69%) in Mathematics or 4 (50-59%) in Mathematics, will be admitted to Informatics 154, 164 and 171.

**Note:** "Grade 12 examination" refers to the final National Senior Certificate (NSC) examination.

## Promotion to next study year

*According to General Regulation G.3 students have to comply with certain requirements as set by the Faculty Board.*

- a. A student must pass at least 4 core semester or 2 core year modules to be admitted to the subsequent year of study.
- b. If a student has passed less than the required minimum of 4 core semester or 2 core year modules, he/she will not be readmitted to the Faculty of Economic and Management Sciences. Such a student may apply in writing to the Faculty's Admissions Committee to be readmitted conditionally – with the proviso that the Admissions Committee may set further conditions with regards to the student's academic progress. The Faculty's Admissions Committee may deny a student's application for readmission.
- c. If a student has been readmitted conditionally, his/her academic progress will be monitored after the first semester examinations to determine whether he/she has complied with the requirements set by the Admissions Committee. If not, his/her studies will be suspended.
- d. A student whose studies have been suspended because of his/her poor academic performance has the right to appeal against the decision of the Faculty's Admissions Committee.
- e. A student may be refused promotion to a subsequent year of study if the prescribed tuition fees are not paid.
- f. A student may be refused admission to the examination, or promotion to a subsequent year of study or promotion in a module (if applicable) if he/ she fails to fulfil the attendance requirements. Class attendance in all modules and for the full duration of all programmes is compulsory for all students.

## Pass with distinction

- a. A degree may be awarded with distinction provided the candidate meets the following criteria:
  - i. Completes the degree within three years;
  - ii. Obtains a Cumulative Grade Point Average (CGPA) of 75%;
  - iii. Repeated passed modules will not be considered. The initial pass mark of module will be used when calculating the GPA.
- b. Transferees from other faculties and from other universities who still complete their bachelor degrees (including credits transferred and recognised from the degrees they registered for originally) within three years will be considered as exceptional cases by the Dean.
- c. The GPA will be not be rounded up to a whole number.
- d. Exceptional cases will be considered by the Dean.

## General information

### Minimum requirements for bachelor's degrees; semester and year modules; new regulations

1. Students who commenced their studies before 2015 must complete the programme in terms of the curriculum of the year in which they commenced their studies, or in terms of the curriculum of the year in which they switched to their current field of specialisation. Students who prefer to do so may, however, apply to change over to the latest curriculum, but then they should comply with all the requirements thereof and they may not revert to the regulations of an earlier year.
2. Students who are registering for a degree programme for the first time in 2015 must take the modules indicated under the particular field of specialisation.

**Please note:** Only two 14-week modules, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes. In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level, except for modules offered on 200- and 300-level only. It is thus the responsibility of students to ensure before registration, that their curricula comply with all the requirements of the applicable regulations.



# Curriculum: Year 1

**Minimum credits: 165**

## Fundamental modules

Academic information management 101 (AIM 101) - Credits: 6.00

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

Academic orientation 107 (UPO 107) - Credits: 0.00

## Core modules

Economics 110 (EKN 110) - Credits: 10.00

Economics 120 (EKN 120) - Credits: 10.00

Financial accounting 111 (FRK 111) - Credits: 10.00

Financial accounting 121 (FRK 121) - Credits: 12.00

Informatics 112 (INF 112) - Credits: 10.00

Informatics 154 (INF 154) - Credits: 10.00

Informatics 164 (INF 164) - Credits: 10.00

Communication management 184 (KOB 184) - Credits: 5.00

Business management 114 (OBS 114) - Credits: 10.00

Business management 124 (OBS 124) - Credits: 10.00

Statistics 110 (STK 110) - Credits: 13.00

Statistics 113 (STK 113) - Credits: 11.00

Statistics 120 (STK 120) - Credits: 13.00

Statistics 123 (STK 123) - Credits: 12.00

Financial accounting 122 (FRK 122) - Credits: 12.00

Informatics 171 (INF 171) - Credits: 20.00

Information systems 113 (INF 113) - Credits: 10.00



## Curriculum: Year 2

**Minimum credits: 145**

### Fundamental modules

[Introduction to moral and political philosophy 251](#) (FIL 251) - Credits: 10.00

### Core modules

[Business law 210](#) (BER 210) - Credits: 16.00

[Business law 220](#) (BER 220) - Credits: 16.00

[Informatics 214](#) (INF 214) - Credits: 14.00

[Informatics 225](#) (INF 225) - Credits: 14.00

[Informatics 261](#) (INF 261) - Credits: 7.00

[Informatics 271](#) (INF 271) - Credits: 14.00

[Informatics 272](#) (INF 272) - Credits: 14.00

[Community-based project 202](#) (JCP 202) - Credits: 8.00

### Elective modules

[Taxation 200](#) (BEL 200) - Credits: 32.00

[Financial accounting 211](#) (FRK 211) - Credits: 16.00

[Financial accounting 221](#) (FRK 221) - Credits: 16.00

[Internal auditing 211](#) (IOK 211) - Credits: 16.00

[Internal auditing 221](#) (IOK 221) - Credits: 16.00

[Communication management 210](#) (KOB 210) - Credits: 16.00

[Communication management 220](#) (KOB 220) - Credits: 16.00

[Business management 210](#) (OBS 210) - Credits: 16.00

[Business management 220](#) (OBS 220) - Credits: 16.00

[Statistics 210](#) (STK 210) - Credits: 20.00

[Statistics 220](#) (STK 220) - Credits: 20.00

[Informatics 281](#) (INF 281) - Credits: 3.00

[Consumer behaviour 212](#) (BEM 212) - Credits: 16.00

[Integrated brand communications 224](#) (BEM 224) - Credits: 16.00



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## Curriculum: Final year

**Minimum credits: 120**

### Core modules

Informatics 301 (INF 301) - Credits: 80.00

Informatics 315 (INF 315) - Credits: 15.00

Informatics 324 (INF 324) - Credits: 15.00

Informatics 354 (INF 354) - Credits: 15.00

Informatics 370 (INF 370) - Credits: 30.00

### Elective modules

Taxation 300 (BEL 300) - Credits: 40.00

Marketing management 321 (BEM 321) - Credits: 20.00

Financial accounting 311 (FRK 311) - Credits: 20.00

Financial accounting 321 (FRK 321) - Credits: 20.00

Internal auditing 311 (IOK 311) - Credits: 20.00

Internal auditing 321 (IOK 321) - Credits: 20.00

Communication management 310 (KOB 310) - Credits: 20.00

Communication management 320 (KOB 320) - Credits: 20.00

Business management 310 (OBS 310) - Credits: 20.00

Business management 320 (OBS 320) - Credits: 20.00

Statistics 310 (STK 310) - Credits: 25.00

Statistics 320 (STK 320) - Credits: 25.00

Marketing research 314 (BEM 314) - Credits: 20.00

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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 students to familiarise themselves 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.