

# University of Pretoria Yearbook 2020

## BComHons Informatics (07240173)

**Minimum duration of study** 1 year

**Total credits** 120

**NQF level** 08

### Admission requirements

- Relevant BCom degree with 60% for Informatics on 3rd year level or equivalent IT courses.

### Other programme-specific information

**NB:** The department reserves the right not to present a module if the particular expertise is not available in the department in that year.

### Examinations and pass requirements

In calculating marks, General Regulation G12.2 applies.

Subject to the provisions of General Regulation G.26, a head of a department determines, in consultation with the Dean

- when the honours examinations in his/her department will take place, provided that:
  1. honours examinations which do not take place before the end of the academic year, must take place no later than 18 January of the following year, and all examination results must be submitted to the Student Administration by 25 January; and
  2. honours examinations which do not take place before the end of the first semester, may take place no later than 15 July, and all examination results must be submitted to the Student Administration on or before 18 July.

There are no supplementary examinations in this programme.

A pass mark is required for the following modules before applying for BComHons: FRK 111 (Financial Accounting), EKN 110 (Economics), STK 110 (Statistics) and OBS 114 (Business Management).

**NB:** Full details are published in each department's postgraduate information brochure, which is available from the head of department concerned. The minimum pass mark for a research report is 50%. The provisions regarding pass requirements for dissertations contained in General Regulation G.12.2 apply mutatis mutandis to research reports.

Subject to the provisions of General Regulation G.12.2.1.3, the subminimum required in subdivisions of modules is published in the study guides, which is available from the head of department concerned.

## Curriculum: Final year

Minimum credits: 120

### Core modules

#### Research report 780 (INF 780)

|                        |   |
|------------------------|---|
| Module credits         | 30.00   |
| Contact time           | 1 other contact session per week, 1 web-based period per week |
| Language of tuition    | Module is presented in English                                |
| Department             | Informatics   |
| Period of presentation | Year  |

##### Module content

A research paper on a topic from the field of informatics.

### Elective modules

#### Enterprise architecture 715 (INF 715)

|                        |                                |
|------------------------|--------------------------------|
| Module credits         | 15.00                          |
| Prerequisites          | INF 788                        |
| Contact time           | 1 lecture per week             |
| Language of tuition    | Module is presented in English |
| Department             | Informatics                    |
| Period of presentation | Semester 1 or Semester 2       |

##### Module content

Enterprise Architecture (EA) involves comprehensive business frameworks that capture the complexity of modern organisations, providing a blue-print for co-ordinating and integrating all components of an organisation. The module will illustrate all the aspects of EA, discuss the need for EA as well as various frameworks, methods and techniques of EA.

#### Capita selecta 716 (INF 716)

|                        |                                |
|------------------------|--------------------------------|
| Module credits         | 15.00                          |
| Prerequisites          | No prerequisites.              |
| Contact time           | 1 lecture per week             |
| Language of tuition    | Module is presented in English |
| Department             | Informatics                    |
| Period of presentation | Semester 1 or Semester 2       |

## Module content

This module will be used to present special, relevant topics within the expertise of the department.

### Data warehousing 785 (INF 785)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 1 lecture per week, 1 other contact session per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Informatics   |
| <b>Period of presentation</b> | Semester 1 or Semester 2  |

## Module content

- Advanced database design
- Advanced database management
- Database architectures and languages
- Data warehousing and data marts
- Current trends

### Management of ICT projects 787 (INF 787)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 1 lecture per week, 1 other contact session per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Informatics   |
| <b>Period of presentation</b> | Semester 1 or Semester 2  |

## Module content

Main emphasis will be on IS project management using a case study to get practical experience in project management.

### Information systems development 788 (INF 788)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.                               |
| <b>Contact time</b>           | 1 lecture per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English                  |
| <b>Department</b>             | Informatics                                     |
| <b>Period of presentation</b> | Semester 1 or Semester 2                        |

## Module content

Study and evaluation of different systems development methodologies.

## Human-computer interaction 790 (INF 790)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.                               |
| <b>Contact time</b>           | 1 lecture per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English                  |
| <b>Department</b>             | Informatics                                     |
| <b>Period of presentation</b> | Semester 1 or Semester 2                        |

## Module content

This module will be used to present special, relevant topics within the expertise of the department.

## Applied data science 791 (INF 791)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.   |
| <b>Contact time</b>           | 1 lecture per week, 1 other contact session per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English  |
| <b>Department</b>             | Informatics   |
| <b>Period of presentation</b> | Semester 1 or Semester 2  |

## Module content

In this information age a lot of data is captured every day and recorded in databases, but the wealth of this data is kept locked in the databases because relatively little mining is performed on this data. This module introduces you to data mining in terms of:

- The data mining process - how do you mine data?
- The data mining techniques - an overview of the data mining techniques that can be used;
- Practical data mining experience - a practical project mining real industry data to find unknown patterns; and
- Product overviews - product demonstrations by data mining vendors.

## Management of information systems 794 (INF 794)

|                               |   |
|-------------------------------|---|
| <b>Module credits</b>         | 15.00   |
| <b>Prerequisites</b>          | No prerequisites.                               |
| <b>Contact time</b>           | 1 lecture per week, 1 web-based period per week |
| <b>Language of tuition</b>    | Module is presented in English                  |
| <b>Department</b>             | Informatics                                     |
| <b>Period of presentation</b> | Semester 1 or Semester 2                        |

## Module content

Business process management; ERP systems; IT trends.

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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.