University of Pretoria Yearbook 2017

BComHons Informatics (07240173)

Duration of study	1 year
Total credits	120

Admission requirements

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

Preparatory work for the honours degree, as determined by each Head of Department, with an assessment thereof, is compulsory for all candidates. Candidates can be exempted from this requirement if they pass an exemption assessment as determined by the head of the department concerned.

A candidate may be refused admission to an honours degree by the Head of Department if he or she does not comply with the level of competence required in the subject as determined by the department – with the proviso that a candidate, who fails to comply with the level of competence required, may be admitted if additional study assignments, as agreed upon, are completed and/or examinations are written.

A candidate, who is refused admission to an honours degree, may request that the Dean reconsiders his or her application for admission in terms of the set procedures.

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:

i. 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
ii. 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.

- whether a candidate will be admitted to a supplementary examination, provided that a supplementary examination is granted, only once in a maximum of two prescribed semester modules or once in one year module;
- supplementary examinations (if granted) cover the same subject matter as was the case for the examinations;
- NB: For the purpose of this provision, the phrase "not sit for an examination more than twice in the same

subject" as it appears in General Regulation G.18.2, implies that a candidate may not be admitted to an examination in a module, including a supplementary examination, more than three times.
- the manner in which research reports are prepared and examined in his department.

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 methodology 714 (INF 714)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Academic organisation	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

This compulsory module explains different approaches that can be used for research in Informatics and gives practical advice with respect to carrying out limited research projects. It also assists students in selecting suitable research topics and writing research proposals in preparation for the research paper, which they will write in INF 780.

Research report 780 (INF 780)

Module credits	30.00
Prerequisites	INF 714
Contact time	1 other contact session per week, 1 web-based period per week
Language of tuition	Module is presented in English
Academic organisation	Informatics
Period of presentation	Semester 1

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
Academic organisation	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.

Electronic commerce 782 (INF 782)

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

Module content

The analysis of the management, innovation and information systems aspects of the use of e-business technology and strategies

Advanced database systems 785 (INF 785)

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

Module content

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

Managing projects and end-users 787 (INF 787)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Academic organisation	Informatics

Period of presentation	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)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 1 web-based period per week
Language of tuition	Module is presented in English
Academic organisation	Informatics
Period of presentation	Semester 1 or Semester 2

Module content

Study and evaluation of different systems development methodologies.

Capita selecta 790 (INF 790)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 web-based period per week, 1 lecture per week
Language of tuition	Module is presented in English
Academic organisation	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.

Knowledge acquisition and sharing 791 (INF 791)

Module credits	15.00
Prerequisites	No prerequisites.
Contact time	1 lecture per week, 2 web-based periods per week, 1 practical per week
Language of tuition	Module is presented in English
Academic organisation	Informatics
Period of presentation	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.

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
Academic organisation	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.

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.