



**DEPARTEMENT REKENAARWETENSKAP & INFORMATIKA**  
**DEPARTMENT OF COMPUTER SCIENCE AND INFORMATICS**

**POST-GRADUATE APPLICATION PROCESS AND STUDY INFORMATION**

**A. ONLINE APPLICATION**

Visit the website [www.ufs.ac.za](http://www.ufs.ac.za) and follow the link Postgraduate Studies-Online Application to complete and submit your application form. Terms and Conditions apply.

If you do not find the degree for which you would like to apply online, print out the DV1 form, fill it in and send it, together with the appropriate documents as required, to the address / email address below.

Once the application has been completed, please send with your proof of payment of the application fee to:

The Registrar: Applications

PO Box 339 | Bloemfontein | 9300 | Republic of South Africa

All enquiries regarding applications: T: +27(0) 51 401 9538/3098/3724

F: +27(0) 51 401 401 9210 | E: [applications@ufs.ac.za](mailto:applications@ufs.ac.za)

**B. INTERNATIONAL APPLICATIONS**

- Applicants, who are in possession of a degree from non-South African universities, must include the South African Qualifications Authority (SAQA) evaluation letter with their application form.
- Non-South African certificates/degrees must be assessed by SAQA prior to applying to the UFS. This process can take anything from 2 – 3 months. Please visit [www.saqa.org.za](http://www.saqa.org.za) for more information.
- The application process must be completed before you arrive for registration at the University. Your details must be captured on the UFS computerized database to facilitate the registration process. For this reason, adhering to closing dates is extremely important.



- Students transferring from other universities must include a certificate of conduct as well as a study record from their previous university with their applications. Closing date for students transferring from other universities is 30 September.
- International postgraduate students must attach to their applications, certified copies of degrees/certificates. Degrees/certificates that are not certified will delay the processing of applications.
- Ensure that your application form is completed correctly and signed before sending it to the UFS. You should expect to receive feedback from the University within 3 weeks of sending your application.
- All enquiries regarding applications: Tel:+27(0)514019538 | +27 (0)514013724.

If your application is successful, you will receive a letter of admission from the admissions office, as well as a letter from the Office for International Affairs for the study permit. Visit the South African Embassy in your home country with the above letters, as well as your passport to apply for your permit. Please be advised that your study permit application can take up to six weeks to be finalized.

All international students must provide proof of membership to a medical-aid, registered with the South African Medical Council. Hospital plans and travel insurance will not be accepted as medical-aid.

Visit <http://www.medicalschemes.com/MedicalSchemes.aspx> for more information on registered medical aids.

International students may also contact the Office for International Affairs for further assistance:

Ms Jeanne Niemann: +27(0)51 401 3219

Ms Louise Steyn: +27(0)51 401 2501

Ms Cecelia Sejake: +27(0)51 401 9436

Fax: +27 (0)86 218 5593

Email: [internationalenquiries@ufs.ac.za](mailto:internationalenquiries@ufs.ac.za)



### **C. FEES 2017**

All correspondence regarding postgraduate student finances must be addressed to:

The Senior Director of Finance

University of the Free State

PO Box 339 | Bloemfontein | 9300

Republic of South Africa

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### **D. GUIDELINES FOR ACCEPTING POST-GRADUATE STUDENTS**

1. Post-graduate students who apply for a research Masters or PhD should attempt to slot into the existing research areas within the Department.
2. If the applicant's study proposal does not relate directly to one of the Department's research areas, the applicant should attempt to adapt it so that it does.
3. If the applicant is not willing to change his/her proposal, the Department will not be able to accommodate the applicant.
4. If the original proposal does not have any links with the Department's research areas from the offset, the applicant cannot be accommodated.

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## **E. GUIDELINES FOR NON-UFS APPLICATIONS FROM MASTERS' & Ph.D. STUDENTS**

1. An applicant who did not complete his/her previous degree at the UFS must apply by filling in the form that can be obtained from the UFS website (DV1-form).
2. All relevant documents related to the applicant's previous qualifications must (as specified in the UFS application forms) accompany the application when it reaches the UFS Administration. This includes a SAQA evaluation certificate (it is the applicant's own responsibility to request this certification beforehand). As soon as the application is complete Administration will send it through to the Department.
3. If it is not clear from the applicant's documentation, the Department may contact the applicant in order to get an indication of his/her prospective research area.
4. Based on the applicant's prospective research area and if the Department has the necessary capacity to accommodate the applicant, a provisional supervisor may be allocated to lead the applicant in preparing a project proposal.
5. It is not the responsibility of the Department to search for a topic for an M or Ph.D. applicant. However, the applicant's topic should fall within the research areas of the Department. The applicant should contact the provisional supervisor allocated to him/her and should discuss opportunities that exist in that research area. The applicant should then go and do research in these areas of opportunity and choose a topic in collaboration with the supervisor in order to be able to prepare a project proposal.
6. After physically presenting the project proposal during a research talk in the Department, the Department will make a final decision on whether the application for further studies are successful or not. A final supervisor will then be allocated to successful candidates.
7. If the application was unsuccessful, the Department will communicate the reasons and specify what will be expected of the applicant to be successful when re-submitting an application in future (if applicable).

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## F. HONOURS 2017

### 1. **Compulsory sessions for all prospective Honours students**

- **Information session:**

An information session will be held during the week before classes commence, specifically on:

**Monday 30 January 2017 at 17:10 in WWG223.**

- All relevant information about the degree will be provided to assist the students with their choices and registration.
- DO Not MISS THIS SESSION!!!

- **Honours orientation sessions:**

Orientation sessions for our Honours students will be held in the days following the information session. It will take place on:

Tuesday to Friday

31 January 2017, 1 February 2017 - 3 February 2017

08:30 – 17:00 each day

In our department.

Presenters:

- Tuesday morning: OO and DS (Prof Pieter Blignaut)
  - Tuesday afternoon: DBs and SQL (Prof Tanya Stott)
  - Wednesday morning: Patterns (Dr Eduan Kotzé)
  - Wednesday afternoon until Friday afternoon: Problem solving (Mr Jean-Pierre du Plessis).
- Please make arrangements with your employer well in time to attend.
  - A light lunch will be provided during each of these 4 days.
  - These sessions are compulsory to all new Honours students, as well as those students who intend to enrol for the Advanced Programming II module in the 2<sup>nd</sup> semester. If you intend to do your project in 2017 and have already attended last year's workshops, you are still strongly advised to attend these 4 days to assist you with your project.



## 2. Admission requirements

- IT-degree
- 60% average for the four UFS (or closely related) 3<sup>rd</sup> year IT-modules (UFS: Database Design, Internet Programming, Networks, Software Engineering)

## 3. Degree Codes

- B.Sc. Honours (IT) = BC460022
- B.Com. Honours = 6500

## 4. Duration of studies

- 7 modules plus project year module = Honours Degree
- Choice of 1 or 2 years
- One year:
  - 4 modules 1<sup>st</sup> semester & 3 modules 2<sup>nd</sup> semester & Project module
    - OR
  - 3 modules 1<sup>st</sup> semester & 4 modules 2<sup>nd</sup> semester & Project module
- Two years
  - Spread above over 2 years. Project must be completed in 1 year

## 5. Modules

- Compulsory:
  - CSIS6809: Project (36 credit year module) - previously RIS693
  - CSIS6813: Research Methodology - previously RIS626

## 6. Honours Modules 2017

A maximum of 2 **approved** related Honours modules may be taken from other departments. It is, however, the student's own responsibility to make sure that these modules fit into our timetable. No changes to the timetable will be made from our side to accommodate other departments' modules.



## 1<sup>st</sup> Semester 2017

MODULE	DESCRIPTION	LECTURER
CSII6833	Human-Computer Interaction	Dr Lizette de Wet
CSII6813	Information Security	Mr Wynand Nel
CSIP6853	Advanced Programming I (Mobile)	Dr Andries Burger
CSIS6813	Introduction to Research	Prof Pieter Blignaut
CSIC6853	Game Development (Capita Selecta)	Prof Liezel Nel
CSIM6813	Theory of Algorithms	Dr Anelize van Biljon

## 2<sup>nd</sup> Semester 2017

MODULE	DESCRIPTION	LECTURER
CSIP6883	Advanced Programming II	Mr Jean-Pierre Du Plessis
CSID6863	Data Warehousing	Dr Eduan Kotzé
CSID6843	Advanced Databases (Oracle)	Prof Tanya Stott
CSII6883	Forensics	Mr Wynand Nel
CSIC6863	SAS Programming (Capita Selecta)	Mr Leon Grobbelaar (CUT)
CSIC6823	Artificial Intelligence	Dr Anelize van Biljon
CSIE6863	Project Management	To be confirmed



## 7. Class Times – 1<sup>st</sup> Semester 2017

MODULE	1 <sup>st</sup> SEMESTER 2017	LECTURER	Day & Time
CSII6833	Human-Computer Interaction	Dr de Wet	Monday 17:10 – 19:00
CSII6813	Information Security	Mr Nel	Tuesday 17:10 – 19:00
CSIP6853	Advanced Programming I (Mobile)	Dr Burger	Wednesday (Class 1) 07:00 – 08:00 Thursday (Class 2) 07:00 – 08:00
CSIS6813	Introduction to Research	Prof Blignaut	Wednesday 17:10 – 19:00
CSIC6853	Game Development (Capita Selecta)	Prof Nel	Thursday 18:10 – 20:00
CSIM6823	Theory of Algorithms	Dr Van Biljon	Will be arranged with lecturer

## 8. Textbooks 1<sup>st</sup> Semester 2017

MODULE	1 <sup>st</sup> SEMESTER 2017	LECTURER	TEXTBOOK
CSII6833	Human-Computer Interaction	Dr de Wet	Measuring the User Experience 2 <sup>nd</sup> Edition Authors: Tom Tullis & Bill Albert. Morgan Kauffman (2013) ISBN: 9780124157811
CSII6813	Information Security	Mr Nel	CompTIA Security+ (Exam SY0-401). Masterskill. ELK 93-022sg_rev1.0 (Van Schaiks)
CSIP6853	Advanced Programming I (Mobile)	Dr Burger	Notes will be provided
CSIS6813	Introduction to Research	Prof Blignaut	Researching Information Systems and Computing Briony J. Oates SAGE publishers ISBN 9781412902243 (pbk)
CSIC6853	Game Development (Capita Selecta)	Prof Nel	Notes will be provided
CSIM6823	Theory of Algorithms	Dr Van Biljon	Information will be provided to individual students





## 9. Contact sessions

Contact sessions are compulsory and take place weekdays between 17:10 and 19:00. In some cases it might continue until 21:00. Depending on the modules presented, a module could also be presented between 07:00 and 08:00 in the mornings. The sessions will take place in WWG222, WWG223 or WWG316 – your lecturers will specify the venue for each module.

## 10. Communication

Email: [DWetL@ufs.ac.za](mailto:DWetL@ufs.ac.za)

Blackboard: for CSIS6808

Facebook: UFS CSI Post-grad

Twitter: <http://twitter.com/ufscsi>

@UFSCSI

(UFS CSI Post-grad)

## 11. Applying for Honours

- Current UFS students
  - DV3 form (closing date 30 November 2016)
  - Conditional acceptance, depending on final results (60% average across all 4 IT modules on final year level)
  - To be signed by Dr De Wet.
- New applicants: DV1 form (closing date 30 September 2016)
  - Submit via UFS Administration

## 12. Registration in 2017

Can be finalised after information session on 30 January 2017.

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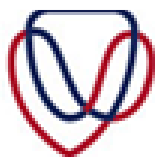
## G. MASTERS – 2017

### 1. ADMISSION REQUIREMENTS

- BSc Hons or BCom Hons Degree (with IT as major)
- 60% average for the Honours degree.

### 2. CHOICE BETWEEN RESEARCH AND STRUCTURED MASTERS

- **Research Master's degree: Code BC480022** (Old=47122)
  - ❖ Dissertation (180 credits) – CSIS8900 (previous code RIS700)
  - ❖ Topic must fit into at least one of the Department's research areas:
    - ✚ Human-Computer Interaction
    - ✚ Data warehousing and mining
    - ✚ Computer Science Education (CSE)
    - ✚ Eye-tracking.
  - ❖ Prepare a detailed proposal (short literature review, problem statement, research question(s) & goals, hypotheses and indication of research design & methodology).
  - ❖ *Final acceptance of student subject to acceptance of proposal.*
- **Structured Master's degree: Code BC470122** (Old = 47222)
  - ❖ Extended research essay (120 credits) – previous code RIS791
    - CSIS7910 (1<sup>st</sup> semester) or
    - CSIS7920 (2<sup>nd</sup> semester)
  - ❖ Plus 3 research modules (Choose 3 modules from the following FOUR research areas):
    - ✚ Human-Computer Interaction ... Presented by Dr. De Wet
      - CSIS7915 (1<sup>st</sup> semester) or CSIS7925 (2<sup>nd</sup> semester)
      - Previous code RIS715
    - ✚ Data warehousing and mining ... Presented by Dr. Kotzé
      - CSIS7935 (1<sup>st</sup> semester) or CSIS7945 (2<sup>nd</sup> semester)
      - Previous code RIS725



### Computer Science Education (CSE) ...Presented by Prof. Nel

(The aim of the Computer Science Education (CSE) research group is to promote research and scholarship both in the field of Computer Science Education and the application of Computer Science to improve teaching and learning. CSE research typically focuses on finding more effective approaches to teach Computer Science to a larger and more diverse audience, or the development of software that can impact upon the teaching and learning environment.)

- CSIS7955 (1<sup>st</sup> semester) or CSIS7965 (2<sup>nd</sup> semester)
- Previous code RIS730

### Eye-tracking ... Presented by Prof. Stott

- CSIS7975 (1<sup>st</sup> semester) or CSIS7985 (2<sup>nd</sup> semester)
- Previous code RIS731

- ❖ Except for CSIS7955/CSIS7965 (was RIS730), there will be no formal classes and no examination. You will choose a topic and then you must summarize from the literature all the work that has been done on the topic and identify a research project in terms of a problem statement.
- ❖ Deliverable: A document consisting of an introduction, a literature review, a problem statement and a conclusion. You will be evaluated on this document, internally and externally.
- ❖ After passing the 3 modules:
  - You select one of your three research projects identified in the modules passed and then continue with that project towards an extended dissertation:
    - CSIS7910 (1<sup>st</sup> semester) or CSIS7920 (2<sup>nd</sup> semester)
  - Deliverable: Document in which you add additional literature resources (to those gathered in your previous literature review), the Research Hypotheses & Objective(s), Research Design & Methodology, Results & Data Analysis and Conclusions.
  - You will be evaluated on this document by your lecturer and an external examiner.

### 3. STRUCTURED MASTER'S IN 1 YEAR

- Three modules must be completed in the 1<sup>st</sup> semester and dissertation (CSIS7920) must be completed in the 2<sup>nd</sup> semester



#### 4. STRUCTURED MASTER'S OVER 2 YEARS

- All 3 modules must all be completed before you can commence with CSIS7920 (1<sup>st</sup> semester) or CSIS7920 (2<sup>nd</sup> semester).

*Choice of modules is dependent on whether they are presented in the 1<sup>st</sup> or 2<sup>nd</sup> semester. It will be revised every year based on the demand and availability of lecturers.*

### **H. PhD – 2017**

#### 1. ADMISSION REQUIREMENTS

- An acceptable Masters' degree in Computer Science or IT on SAQA level 9.

#### 2. DURATION

- PhD should be completed within 4 years (full time) and 6 years (part time).

#### 3. TOPIC

- The topic should fall within the research areas of the department:

- Human-Computer Interaction
- Data warehousing and mining
- Computer Science Education (CSE)
- Eye-tracking.

#### 4. CODES

Module code: CSIS9100 (old code: RIS900)

Programme code: BC490022 (old code: 49122, 4920)

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