



RHODES UNIVERSITY STUDENT HANDBOOK 2010/11

LECTURE THEATRE 1



RHODES UNIVERSITY
Where leaders learn



RHODES UNIVERSITY

Student Handbook 2010/11

This Handbook gives information about the courses of study and life at Rhodes University, in Grahamstown. It is for the general guidance of prospective students and does not form part of any contract. The information in this Handbook refers to entry in February 2011 and prospective applicants should note that the information was correct at the time of going to print.

Information of special interest to students from outside South Africa is given on pg 21.

The National Senior Certificate system is new and therefore the University entry requirements and merit awards are constantly under review. As this booklet goes to print approximately 15 months prior to registration the University reserves the right to adjust the entry requirements as deemed necessary for 2011.

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Please note: In the past we have had problems with mail not reaching its destination. If you have not had a reply from us within three weeks, please call to enquire about your application.

Visit our website: <http://www.ru.ac.za>

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Visit the Rhodes University Home Page on
<http://www.ru.ac.za>

TERM DATES FOR 2011

1st Term:	Monday 14 February - Friday 1 April
2nd Term:	Monday 11 April - Friday 24 June
3rd Term:	Monday 25 July - Friday 9 September
4th Term:	Monday 19 September - Friday 16 December
Graduation Ceremonies:	Thursday 7 April - Saturday 9 April
Swot weeks:	Monday 10 May - Friday 3 June Monday 31 October - Friday 4 November
Examinations:	Saturday 4 June - Friday 24 June Saturday 5 November - Thursday 1 December



RHODES UNIVERSITY
Where leaders learn

Dear Prospective Student

Thank you for your enquiry to Rhodes University. We trust that this Prospectus will assist you in your application for admission to the University.

The attainment of a degree will undoubtedly enhance both your prospects of gaining employment and your opportunity to make a meaningful contribution to our rapidly changing society. It will also open a whole new dimension on life as you explore ideas and concepts, develop critical thinking skills and pursue the truth through your study and research.

What better place to do this than at our attractive campus in Grahamstown? The attraction is not just the physical beauty of the place but the vibrant community life. This is sure to make the three or four years you spend engaged in the serious business of study one of the most pleasurable periods in your life.

In this Prospectus you will read about some of the unique features of Rhodes University. Information is provided about the residences, financial aid, degrees available and much more.

I look forward to receiving your completed application form in the near future.

Yours sincerely

Dr Stephen Fourie
REGISTRAR

Institutes

Research and other Institutes at Rhodes University

Complementing the teaching departments, and often closely associated with them, are a range of University and allied Institutes specialising in particular research fields. Institutes offer interesting and important extensions to the teaching and research carried out by the teaching departments. Many of them support national collections and archives, maintain specialised research equipment not found elsewhere in the University, and offer training and postgraduate degree supervision, as well as undergraduate teaching. They are usually supported largely by external funding, and therefore tend to work outside the University in local and national communities and organisations, forging extensive links between the University and the outside world.

Some of the Institutes are housed within the University and their staff are University personnel. These intra-mural Institutes and groups include:

- Biopharmaceutics Research Institute
- CASRA (Centre for Applied Social Research and Action)
- Catchment Research Centre
- Centre for Entrepreneurship
- CSD (Centre for Social Development)
- Gold Fields Environmental Education Services
- Hermann Ohlthaver Institute for Aeronomy
- Institute for Social and Economic Research
- Institute for the Study of English in Africa
- Institute for Water Research
- International Library of African Music
- Investec Business School
- MiST, the Mathematics – information technology – Science – Technology Education Centre
- Murray Roberts Environmental Education Unit
- PSAM (Public Service Accountability Monitor)
- RUMEP, the Rhodes University Maths Education Project
- Southern Ocean Group

Other organisations are extra-mural – associated with the University, and offering facilities and expertise, but not part of the University. These include:

- Albany Museum
- CADRE (Centre for Aids Development, Research, Evaluation)
- Dictionary Unit for South African English
- NELM (National English Literary Museum)
- South African Institute for Aquatic Biodiversity

All of these organisations are available to answer enquiries and offer specialised help and training to students. More information on each is available from the University website.

How to use this Prospectus

It is not necessary to read the Prospectus from cover to cover. We suggest that you use it as follows.

• If you do not know the University at all

Read the introduction section *Why choose Rhodes?* (page 5). It will give you an insight into the special character of the campus.

• If you do not know what you want to study

When you apply to the University for admission you must apply to study towards a particular degree. You therefore need to begin by choosing a degree. The degrees are listed in the section *Degrees offered* (page 11).

• When you have a general idea about the degree you wish to study

As degrees are awarded within faculties, you should then read the section on the faculty in which your choice of degree is offered in order to gain understanding of the area of knowledge covered by the faculty. For instance, a degree in the Sciences is very different in focus or approach to a degree you will receive in the Humanities.

• If you know the subjects you wish to study but are uncertain how to structure an appropriate degree

Some students may need to reverse the order suggested above. For example, if you are keen to study Economics you may want to read about Economics and Economic History in the section on Areas of Study (starting on page 66) first. You will find that the subject can be taken as a major in a number of degrees. You may then want to move to the section about the faculties (from page 25) to determine which degree you should choose. A BA majoring in Economics and, say, Philosophy with other courses in liberal arts subjects (such as Politics) will give you a very different educational experience from that which you would get if, for instance, you chose a BCom with majors in Economics and Accounting accompanied by courses in other commerce subjects.

• When you don't know if you qualify for admission to the course that you want to study

Finally, you should read the section on Admissions (page 13) and **pay special attention to the entrance requirements** and the closing dates.

Other sections will give you useful information on Financial Aid, Foreign Student requirements, travelling to Grahamstown and Sport.

Why choose Rhodes?

Unique character

Rhodes owes its unique character among South African universities to a combination of factors, some historical, some geographical, some cultural and some architectural. An important influence in this respect is the University's smallness, which, together with its residence system, allows unusually close contact between students and their lecturers, in surroundings that foster fellowship and learning. Small classes mean more personal attention and encourage greater involvement of students in their work. The end result is that successive generations of Rhodes graduates have had an influence on southern African and world affairs out of all proportion to their small number.

Worldwide reputation

Old Rhodians are to be found in leading positions, in many different fields of endeavour, all around the globe. The University has earned a worldwide reputation for the high quality of its education and all Rhodes degrees are internationally recognised. In fact, Rhodes has produced a disproportionate number of international scholarship winners.

An ideal environment

Over the years the campus has grown – today there are about 150 buildings, including 48 residences. Graced with lovely grounds, 203 hectares in extent, an abundance of sports facilities and nestling in the hills of the beautiful and historic city of Grahamstown, the University offers an ideal physical environment for studying. You will live, learn and play in elegant plaster and stone undertile buildings, several of which are National Monuments. Others are of considerable historical interest. The campus, long considered one of the most beautiful in the country, is situated in the 'Festival City of Grahamstown', the home of the National Festival of the Arts, SciFest and other festivals. The University's landscaped grounds and flower-filled gardens invite students to study outdoors and often tutorial groups are seen under the hundred-year-old trees on the St Peter's campus. A year-round moderate climate lures students outdoors for jogging, walking and cycling as well as for a large variety of sports, art classes and recreational activities.

During winter, in residence common rooms, you may find students playing a game of pool, lounging in comfortable armchairs, moving to the beat of a band coming from the campus radio station, tuning in to their favourite television shows, or visiting over coffee.

Rhodes University provides not only the ideal environment for tertiary studies, but also promotes leadership for an environmentally sustainable future. The University has been a signatory of the international Talloires Declaration since 1996, as a member of the Association of University Leaders for a Sustainable Future. Through its Environmental Policy, Rhodes University strives towards being a centre of excellence in environmental studies and practice.

Facilities and support are available across campus to promote the adoption of more environmentally friendly practices such as recycling and sparing use of energy, water and other resources. Staff and students can visit the University's environment webpage, accessible from the main home page.

Special situation

Rhodes lies in what is historically one of the most important areas of South Africa – at the first point of major contact between black and white. The challenge of poverty, urbanisation and education – indeed the challenge of South Africa – is to be found in the community of Grahamstown, providing invaluable material for scholar and humanist alike.

The city is also situated at the meeting point of four different climate zones, offering botanists, geographers, geologists, hydrologists, entomologists, zoologists, and limnologists an amazingly wide spectrum of conditions right on their doorstep.

The campus is small enough for students to make walking a way of life. Owning a car is agreeable but not necessary; Grahamstown is some fifty minutes from the sea and an hour and a half from the Winterberg mountains. With the Karoo to the north and the coastal plain to the south, it is ideally situated for a great variety of research and recreation opportunities.

Students

Today Rhodes has just over 6700 students, with some 3700 living in the University residences. Students come from all over southern Africa, including Botswana, Lesotho, Malawi, Namibia, Swaziland, Zambia and Zimbabwe. A number of overseas students enhances the cosmopolitan character of campus life. At the same time, Rhodes could also be described as a most 'South African' university, drawing students from all the provinces of the country.

Some Rhodes characteristics

Come to Rhodes, and spend three or four of the best years of your life!

Size has much to do with the warmth and friendliness at Rhodes. With a student body of approximately 6700 and an average of one lecturer to fifteen students, friendships develop easily – over breakfast in one of the nine dining halls, during a conversation in a professor's office, or while taking a late night study break in the Common Room. Rhodes has students from rural and urban settings, from private and government high schools, and from families at every economic level. The characteristic these individuals hold in common is the ability to achieve. Many have already proven themselves outside the classroom as well: on the sports field, in music and drama and in student affairs. Many students live on campus in residences, but even those who live off campus experience the community atmosphere for which Rhodes is so well known. Both those in residence and Oppidans (students who live in town) participate in common events sponsored by the University and the Students' Representative Council.

Career Services: A well-subscribed Graduate Placement Programme runs during the third term where over sixty national and international employers visit to recruit students. There is also an Academic Development Centre which co-ordinates an excellent tutoring system within academic departments. Some Rhodes students know where they are headed; others want to find out. Either way, students get wide exposure to study and career opportunities with professional guidance to help match interests and abilities with career options.

Sport: More than thirty sports are played at social, inter-house, inter-hall, league, provincial or national level, with over eighty-five percent of students taking part. There is a section on sport on page 157.

Religions: Most religions are represented at Rhodes and dining halls offer a variety of diets to accommodate religious needs. There are various Christian, Far Eastern, Hellenic, Hindu, Muslim and Jewish societies on campus.

Self-government: By voice or vote, students influence every aspect of life on campus, from planning to curriculum, from sport to student welfare. Student representatives sit on administrative advisory committees, on Senate and other bodies which discuss campus issues and concerns. The Rhodes Students' Representative Council, led by elected representatives, gives students the responsibility for governing themselves, communicating student concerns and effecting change on campus. Through the Hall and House Committees, students at Rhodes establish and enforce the rules of social conduct necessary for living together.

Cultural and extra-curricular activities: There are over forty societies affiliated to the Students' Representative Council, giving ample opportunity for all to develop leadership experience and contribute to campus life. The societies are varied: there are political organisations, a campus radio station, a student newspaper, a chamber choir, a debating society, religious groups, cultural groups, etc.

Student Counselling Centre

Looking out for the wellbeing of students.

The Counselling Centre exists to provide psychological support to Rhodes University Students.

Psychological distress will interfere with your academic studies. So if you are feeling worried, anxious, depressed, overwhelmed or stressed, then do come and see us as soon as possible. You can be assured that the counsellors will take your concerns seriously and maintain the strictest level of confidentiality.

We offer a range of approaches to suit most people and most problems.

These include:

- Confidential individual counselling.
- Relationship counselling.
- Group therapy for students with similar interests and goals.
- An after-hours line for psychological emergencies (during office hours students experiencing a psychological emergency can just drop in at any time to make an appointment and will be accommodated as soon as possible).
- Workshops on issues pertinent to students such as time management, stress management and exam preparation.
- Self-help material and information pamphlets covering various topics.
- Provision of referral information (if we are unable to help you, we can tell you about other services that may be able to help).

For more information please email: counsellingcentre@ru.ac.za

The Residences

Why consider living in a residence?

Rhodes University is more than just an institution of tertiary education, it is a community. There is something special about it which makes alumni keep in touch with the University and with one another years after they leave and sometimes even from the other side of the world. The Rhodes residential system is a key factor contributing to this tradition of friendship and kinship.

The majority of Rhodes undergraduate students live in nine halls of residence. Each hall has between three and six houses of between 50 to 120 students, grouped around a central dining hall. Each hall has its own constitution, rules and traditions. Each residence has its own character, created by the students who live there. Some halls have both men's and women's houses, while others are for men or women only. While the vast majority of student rooms are single, some first year students may be allocated to the few double rooms in various residences; application may also be made for a double room.

Each hall has a Hall Warden who is responsible for the general running, organisation and management of the hall. A hall committee, consisting of the house wardens, sub-wardens and senior and head students of each house in the hall, acts as an advisory body to the hall warden. A house committee, consisting of the house warden, sub-wardens and members elected by the students, takes the same kind of responsibility in matters affecting the house. In this microcosm of the democratic process each student can play a role in formulating the lifestyle of their house or hall. Hall and house wardens are always available to help and advise students, but their function is not that of a surrogate parent or 'watchdog'. Rules are kept to the minimum needed for maintaining an orderly, peaceful environment conducive to studying and community living.

Life in residence: The rooms in residence are equipped with all the basic furniture and comforts needed, but students may decide to bring a few extras to make their rooms feel more like home. All rooms have a bed, wardrobe, mirror, worktable and chair, table lamp, bookcase, carpeting or a mat, and a heater. Many rooms have a small bedside locker and a washbasin (with hot and cold water in certain residences). Curtains and bedding are provided, but towels are not, so three or four towels should be brought by students, including swimming towels. Students are responsible for cleaning their own rooms, for which basic cleaning materials are provided. Students often wish to set an individual stamp on their rooms. This can be done in several ways, perhaps by substituting their own curtains, duvet cover and carpet. A bean bag or cushions make the furnishings more interesting. Other useful items might include a tray, coffee mugs, kettle, jug, teaspoons and glasses, coat hangers, an alarm clock and a torch (as no candles are permitted).

The residences are graded according to their location and to the facilities available (e.g. availability of hot and cold water in each room). Each residence has at least one TV lounge with DSTV and DVD access. Over the years, students in certain residences have raised funds for the purchase of additional amenities such as pool tables. Each residence has its own 'laundrette'.

Some residence Halls have their own web pages which give a good idea of residence life at Rhodes University; links to these pages can be found at: <http://www.ru.ac.za/residences>

Some basic guidelines are common to all the residences:

1. **Privacy:** A student may not enter other students' rooms without their permission.
2. **Hours of quiet:** Reasonable quiet is expected at all times and particularly before 12 noon, between 2.00 pm and 5.00 pm and from 8.00 pm onwards.
3. **Alcohol:** There are strict regulations governing alcohol on campus or in any residence. No spirits are permitted in residence.
4. **Night leave:** Students are requested, in their own interest, to let someone know where they are at night.
5. **Catering:** Balanced meals are planned on a two week cycle, ensuring that the nutritional needs of students are met. As previously mentioned, various diets are available e.g. vegetarian, Muslim, Hindu, African. Student representatives meet regularly with catering staff to discuss problems and make suggestions.
6. **Insurance:** The University does not accept responsibility for students' possessions if lost, stolen or damaged, so students are advised to lock their bedroom doors. It is also advisable to check that possessions are covered by personal insurance, particularly in the case of foreign students.
7. **Clothing:** Grahamstown weather can do a whistle-stop tour of all four seasons in a day, so students will need some summer clothes in winter and vice versa. Casual clothes are worn to lectures, but some formal and semi-formal outfits should be included for balls, dinners, dances and parties. Name tags should be sewn into clothing.
8. **Pocket money:** Rhodes life is inexpensive and large amounts of money are unnecessary. Depending on what needs to be provided, an amount of R350 to R500 per month should be adequate. A bank account that can be accessed through an ATM is a useful way of transferring money. There are ATMs on campus.

STUDENT NETWORKING

Student Networking is a service that allows students at Rhodes to connect to the University's network and access the Internet using their own computers. It includes access from most University residences, wireless network access from major lecture venues, the library and other hot-spots on campus, as well as a dial-in service for oppidans living in digs.

Support for students using their own computers on campus is provided in the form of a Student Help Desk which is staffed by students for students. It is conveniently located in the Student Union building and offers a free carry-in service. Students in residence can also arrange for a technician to visit their room for an additional fee.

To take full advantage of this students need a reasonably up-to-date computer (no more than about three years old) of their own. If their computer doesn't already have one built in, they'll also need a network card.

More information on the Student Networking service – including details of exactly what's needed to connect, the terms and conditions, and what it all costs – is available at <http://www.ru.ac.za/studnet>

The Library

Situated at the heart of the campus, the Rhodes Library is the geographic and academic hub of student life, providing vibrant meeting, studying, discussion and recreational space. The Library building is in a process of expansion and renewal which started in September 2008. In January 2010 the brand-new section of the Library will open its doors to the Rhodes community and the current library building will then be refurbished. By July 2010, Rhodes University Main Library Services will be operating from a 21st century Library building.

Resources

- A large volume of printed material, including books, newspapers and periodicals.
- Research databases affording 24/7 electronic access to over 30 000 periodicals in full-text.
- A wide selection of videos and DVDs plus viewing booths & a viewing room for groups.
- An Information Commons with 54 computers available for student use during Library opening hours.
- 9 group study rooms.
- Secure 24-hour study area.
- Photocopying, printing available on each floor; scanning facilities in the Information Commons.
- A training room & seminar room.

Services

- Professional Subject Librarians to assist in finding relevant information for essays/projects.
- High-demand material available on Short Loan.
- A self-issue facility.
- Friendly, helpful staff.
- Inter-library loans for postgraduates and staff.
- Display venue.
- Off-campus access to electronic research databases and e-information.

Tutoring

- Tutorials on using the Library's online catalogue (OPAC).
- Customised research database workshops.
- Online guide to finding, using and evaluating information.

Check the Library webpage for opening times and further information about resources & services: www.ru.ac.za/library

The Career Centre

The Rhodes University Career Centre (CC) provides a career counselling, career education and career development service to students at Rhodes University. It is particularly important that **all** students use the Career Counselling and Career Development facilities regularly from First Year onwards, no matter what their degree. In particular the following services are provided:

The Rhodes Career Development Plan & Career & Career Development Counselling

- Pre-university Study & Career Choice Counselling (Grades 11 & 12) for those intending to study at Rhodes University. This must be booked well in advance on account of the preparation required for the initial Study & Career Choice Counselling meeting.
- Career Counselling. Students at Rhodes are encouraged to avail themselves of the career counselling and career development counselling services on a regular basis **and** throughout their time at Rhodes University. Prior booking **and** preparation for counselling interviews are required.
- The Rhodes Career Development Programme. This Voluntary Career Development Programme is a structured career education programme designed to assist students in their career development at Rhodes University. It should be taken up in First Year and if attended conscientiously will increase a student's career literacy and preparation for the world of work.
- A Career Library containing information on careers, employers, and other educational institutions (nationally and overseas).
- Assistance with study and career planning, career decision making, developing a CV (from First Year) and preparing for job interviews. A variety of career and information leaflets, books and videos are available for use by Rhodes students.
- Career Programmes – Annual Law Graduate Recruitment Programme (LGRP) in March, Career Focus Fortnight (CFF) in May, Mock Interview Programme (MIP) in May and the annual Graduate Recruitment Programme (GRP) from July – October. These are all part of the Voluntary Career Development Programme.
- Career Development Seminars and Job Search Workshops – career seminars and talks run throughout the year – all designed to enhance students' career development and increase their career literacy, critical to marketing themselves on graduating.
- Career Publications. Various career pamphlets (the Career Centre Bulletin, the Career Focus Fortnight Programme, the Graduate Recruitment Programme, etc.) are produced and made available to all students throughout the academic year. These are designed to educate and inform students in their career development while at Rhodes and should be kept and referred to as needed.

Career development is an ongoing process for which students must take full responsibility, from First Year onwards.

The Career Centre is open Monday to Friday from:

08h00 – 12h45 and 14h00 – 16h30

To contact The Career Centre:

(046) 603-8180 during Office Hours

To locate the Career Centre:

Career Centre
Lower Ground Floor
Eden Grove Building

STUDIES ARE CHOSEN, CAREERS DEVELOPED.

Extended Programmes

Students who do not meet the University's usual admissions requirements may be offered a place on an Extended Programme. An Extended Programme means that degrees are completed over four rather than three years. Students enrolled on Extended Programmes start earning credits towards their degrees as soon as they enroll – Extended Programmes are therefore not like foundation courses which require students to complete an additional catch up year before they start their degrees. In Extended Programmes, the degree courses required for a Rhodes degree are staggered over four, rather than three, years and students are provided with additional tuition as they engage with mainstream study.

Extended Programmes exist in the faculties of Commerce, Humanities and Science. For more information, go to:

<http://www.ru.ac.za/academic/departments/exstudies/>

Undergraduate degrees offered

See the appropriate Faculty section in this Prospectus for information about the curricula for these degrees.

In the Faculty of Commerce

Bachelor of Business Science (BBusSc)

The degree of Bachelor of Business Science is a four year career-focused degree intended for students who plan to make a career in a business enterprise, the corporate sector or in any organisation. The curriculum provides for both a liberal education, and a scientifically based study of the economic and management sciences aimed at equipping the graduate with an understanding of modern paradigms and methodologies for problem-solving in management and in business.

Bachelor of Commerce (BCom)

This is a broad three year degree which provides the candidate with a thorough grounding in the basic commerce disciplines, to equip him/her after suitable practical experience with the managerial or professional requirements of his/her chosen field.

Bachelor of Economics (BEcon)

This degree is the most appropriate choice for those who wish to obtain a degree in which the maximum number of courses in Economics and related subjects is included.

Postgraduate Diploma in Accountancy

This qualification is registrable with the S.A. Institute of Chartered Accountants and entitles the holder to write the professional examination conducted by the Institute for admission to the status of Chartered Accountant at the earliest opportunity provided the holder has signed articles.

In the Faculty of Humanities

Bachelor of Arts (BA), a three year degree.

Bachelor of Journalism (BJourn), a four year degree.

Bachelor of Fine Art (BFineArt), a four year degree.

Bachelor of Music (BMus), a four year degree.

Bachelor of Social Science (BSocSc), a three year degree.

In the Faculty of Law

Bachelor of Laws (LLB), a four year degree.

First year students are required to register for a BA, BCom or BSc with courses in Legal Theory. Students who successfully pass their first year subjects may apply to transfer to the Faculty of Law. Students may also follow a five year curriculum, obtaining two undergraduate degrees – a BA, BSocSci, BCom or BSc in the first three years, followed by a two year LLB – provided that they have obtained sufficient law credits in their first degree. To obtain sufficient law credits in the first degree, students will be required to major in Legal Theory. Students who have an undergraduate degree without any law credits will be required to register for a three year LLB programme.

In the Faculty of Pharmacy

Bachelor of Pharmacy (BPharm), a four year degree.

In the Faculty of Science

Bachelor of Science (BSc)

The usual 'first' degree in the Faculty, requiring a minimum of three years' study. A wide range of subjects can be studied in order to qualify for this award.

Bachelor of Science Information Systems (BSc(InfSys))

A degree intended for students who wish to become computer specialists in a commercial environment. It has a more structured curriculum than the ordinary BSc degree.

Bachelor of Science (Software Development) (BSc(SofDev))

This is a four year degree designed to prepare students in the computer software development and engineering field. As with the BSc(InfSys) it has a carefully structured curriculum.

Bachelor of Science with Honours (BSc(Hons))

This degree may be regarded as a fourth year to an ordinary BSc, in which a student studies one of the subjects taken in the final year of the BSc, in greater detail, and is taught the basic elements of research.

In the Faculty of Education

Prospective teachers are initially registered in other faculties. See page 36.

Admission

Admission to Rhodes University

When you apply for admission to the University you are admitted to a particular Faculty of the University and this is determined by the degree for which you wish to read. Your first step in applying for admission to the University is to decide which degree you wish to take. Refer to the index of Undergraduate Degrees in this Prospectus and to the Faculty information to see which degrees are offered.

Entry requirements

Your application will only be considered for admission to the University if you qualify for bachelor degree study AND you satisfy the faculty requirements. NOTE: If you meet the minimum admission requirements this only means that you are eligible for selection; it does NOT mean that you will necessarily be accepted.

CANDIDATES CURRENTLY AT SCHOOL DOING SOUTH AFRICAN NATIONAL SENIOR CERTIFICATE (NSC)

Students leaving school at the end of 2010 will earn the National Senior Certificate (NSC). To qualify for the NSC with bachelor degree study status learners are required to take seven subjects, four of which are compulsory (two languages, Life Orientation and either Mathematics or Mathematical Literacy) and three of the learner's own choice from the subjects on offer at their school.

To qualify for degree studies at a University at least four of the seven subjects must fall within the list of 'designated subjects' set out below and the student must have obtained an achievement rating of 4 (adequate achievement 50-59%) or above in these four subjects. The designated subject list is:

Accounting	History
Agricultural Sciences	Information Technology
Business Studies	Languages
Consumer Studies	Life Sciences
Dramatic Arts	Mathematics/Mathematical Literacy
Economics	Music
Engineering	Physical Science
Graphics and Design	Religion Studies
Geography	Visual Arts

The minimum entry requirements for admission to Rhodes University in 2011 are set out in the table below. Note (a) the point levels that are required (b) the differences in the achievement levels that are needed for Mathematical Literacy, (c) the need for Life and/or Physical Sciences for degrees in Science or Pharmacy.

HOW TO CALCULATE YOUR ADMISSION POINT SCORE (APS)

NSC RATING	%	APS ENGLISH	APS MATHS	APA MATHS LITERACY	APS ALL OTHER SUBJECTS	APS ORIENTATION
7	90-100	16	8	6	8	NSC LEVEL 4 AND ABOVE IS REQUIRED FOR ALL FACULTIES HOWEVER NO APS POINT WILL BE AWARDED FOR LIFE ORIENTATION
7	80-90	14	7	5	7	
6	70-79	12	6	4	6	
5	60-69	10	5	3	5	
4	50-59	8	4	2	4	
3	40-49	0	3	0	3	
2	30-39	0	0	0	0	
1	0-29	0	0	0	0	

FACULTY REQUIREMENTS

FACULTY ENTRY REQUIREMENTS	POINTS			
BACHELOR OF COMMERCE and BACHELOR OF ECONOMICS Mathematics level 4 or above Maths Literacy will not be considered	40 points and above will receive a firm offer	Between 35-39 points admission will be at the Dean's Discretion. Various factors will be taken into consideration.	Between 30-34 points applications will be considered by the Dean for the extended studies programme.	29 points and below - the application is likely to be rejected
BACHELOR OF BUSINESS SCIENCE Mathematics at Level 6 or above	45 points and above will receive a firm offer	40-44 points admission will be at the Dean's Discretion		
BACHELOR OF ARTS, BACHELOR OF SOCIAL SCIENCE, BACHELOR OF JOURNALISM, BFA and BMUS	40 points and above will receive a firm offer	28-39 points admission will be at the Dean's Discretion. Candidates in this range may be considered for the Extended Studies programme		27 points and below - the application is likely to be rejected
BACHELOR OF SCIENCE Mathematics at Level 5 or above Life Sciences at Level 4 or above OR Physical Sciences at Level 4 or above	40 points and above will receive a firm offer	30-39 points admission will be at the Dean's Discretion		29 points and below - the application is likely to be rejected

Maths Literacy at Level 6 or above may be considered if candidates select subjects such as Geography / HKE BACHELOR OF SCIENCE (Inf Sys) and BACHELOR OF SCIENCE (Software Dev) Mathematics at Level 6 or above Mathematical Literacy will not be considered. Physical science is not required for BSC(S) or BSC(D)				
BACHELOR OF PHARMACY Mathematics at Level 4 and above Life Sciences at Level 4 and above Physical Sciences at Level 4 and above Mathematical Literacy will not be considered	40 points and above will receive a firm offer	30-39 points admission will be at the Dean's Discretion		29 points and below - the application is likely to be rejected
LAW	First year candidates are not accepted directly into Law. They are required to obtain 3 non-law credits through the Humanities, Commerce or Science route. A minimum of Mathematics level 4 or Mathematical Literacy level 5 is required to be considered for Law studies.			
ALL FACULTIES	Life Orientation is not counted for points in any Faculty, but you are required to obtain at least a level 4 in Life Orientation for acceptance.			

Examples of NSC ADMISSION POINT SCORES

STUDENT A			STUDENT B		
SUBJECT	NSC rating	APS	Subject	NSC Rating	APS
English	5	10	English	7	14
Xhosa	5	5	Zulu	5	5
Maths	5	5	Maths Lit	5	3
Geography	7	7	Life Science	3	3
Life Science	6	6	Drama	7	7
History	4	4	Art	7	7
Life Orientation	5	0	Life Orientation	6	0
Total APS		37 points			39 points

An application is usually (and wisely) made well in advance of knowing your final results, in which case the application form requires your school to supply provisional results, based on their own internal examinations. If your provisional scores are very promising you may well be offered a place to study even before you take the final examinations. Please note an offer is conditional subject to you obtaining bachelor degree status and your admission point score (APS) being maintained or improved.

If you do not meet the minimum requirements specified above, you may still be considered for a place at the Dean's discretion. Such places are usually offered with some extra conditions. Some places are offered to students with weak point scores who come from disadvantaged backgrounds on condition that they take their degree over a minimum of one more year than the normal period by enrolling in the Extended Studies Programme. It is therefore very important to give full information when completing the application form as this is the information that the Dean will use for making a decision.

CANDIDATES WHO COMPLETED THE SOUTH AFRICAN SENIOR CERTIFICATE (Matric)

If you have already matriculated, you must send a certified copy of your Matriculation exemption certificate with your application form.

Please note that if you have passed the Matriculation examination with ordinary conditional exemption you will not be accepted at this University.

Faculty requirements for matriculation candidates

In addition to the requirement that an applicant has an endorsement for degree study, each Faculty has additional minimum requirements for admission: applicants must obtain a certain admission rating based on symbols achieved in the Matriculation examination.

However, Rhodes recognises that many applicants have Matriculation symbols that do not reflect their potential. Because of this, the Deans of all the Faculties have the discretion to admit applicants who do not meet the minimum requirements laid down by the Faculty. Various factors such as activities since leaving school are taken into consideration. All applicants with a rating below the minimum points will have their applications assessed by the Dean of the relevant Faculty who may admit them, provided the Dean is confident that the student will cope with university study and provided that the Faculty is not full. **The Dean does not, however, have the authority to accept a student who does not qualify for a Matric exemption.**

Faculty requirements for candidates who have completed Matric (pre-2008):

FACULTY	POINTS			TRANSFER APPLICATION
Commerce BCom and BEco	>35 points with Mathematics HG D or SG A automatic offer	30-34 points Dean's discretion	29 points and below the application is likely to be rejected	Any points with transfer credits will be considered by the Dean.
BBS	>40 points with Mathematics HG D automatic offer	30-39 points application will be considered for Bcom	29 points and below the application will be rejected	
Humanities BA, BJrn and BSS	>35 points automatic offer	30-34 points Dean's Discretion	29 points and below the application is likely to be rejected	Any points with transfer credits will be considered by the Dean
Pharmacy	>35 points with Mathematics HG D and Biology HG D automatic offer	30-34 points Dean's Discretion	29 points and below the application is likely to be rejected	Any points with transfer credits will be considered by the Dean
Science BSc	>35 points with Mathematics HG D and HG D in either Biology or Physical Science automatic offer	30-34 points Dean's Discretion	29 points and below the application is likely to be rejected	Any points with transfer credits will be considered by the Dean
BSc (Inf Sys) and BSc (Software Dev)	>35 points with Maths HG D automatic offer			

HOW TO CALCULATE YOUR ADMISSION POINT SCORE (APS) FOR YOUR MATRIC RESULTS

Symbol	Points for HG	Points for SG
A	8	6
B	7	5
C	6	4
D	5	3
E	4	2
F	3	1

Examples of Matric scores

STUDENT A			STUDENT B		
Subject		Score	Subject		Score
English HG	D	5	English HG	A	8
Xhosa HG	B	7	Zulu HG	C	6
Maths SG	A	6	Maths SG	C	4
Geography SG	C	4	Science SG	C	4
Science HG	D	5	Drama HG	A	8
History HG	D	5	Art HG	A	8
Total Points		32 points			38 points

CANDIDATES WHO ARE CURRENTLY DOING OR HAVE COMPLETED A LEVELS AND O LEVELS (Cambridge or ZimSec) OR OTHER FOREIGN QUALIFICATIONS
A LEVEL AND O LEVEL QUALIFICATIONS

The basic minimum requirement for admission to the University is a certificate of Full Exemption or Foreign Conditional Exemption from the Matriculation Board. Applicants who have passed A levels are eligible for full exemption provided the passes in approved subjects meet the following requirements:

A Levels / AS Levels / O Levels

(A Levels symbols A – E, AS Levels Symbols A – D and O Levels symbols A – C only)

If you are applying for Pharmacy your A Levels or AS Levels must include Mathematics, Science and Biology. If you are applying for Science your A Levels, AS Levels or O Levels should include Mathematics, Science and Biology

2 Subjects at A level (Symbols A – E) and 3 different subjects at O level

Or

3 subjects at A level and 2 different subjects at O level

Or

4 AS levels and 1 different subject at O level

With at least 1 subject from each of the following groups:

Group I	English
Group II	Afrikaans, French, German, Hebrew, Italian, Latin, Nederlands, Portuguese or any other language approved by HESA
Group III	Biology, Botany, Chemistry, General Science, Geology, Mathematics, Physics, Physics & Chemistry, Zoology or any of the following of not offered under Group II – Afrikaans, French, German, Greek, Hebrew, Italian, Latin, Portuguese, Nederlands or any other language approved by HESA

Please note that Psychology, Sociology, Physical Education, General Paper and Thinking Skills are not recognised subjects for entry to a South African University.

If you have 2 A Level passes but do not have a second language, application should be made to HESA (through your University after registration) for a Foreign Conditional Exemption. The onus is on you to acquire this certificate.

HIGCSE / IGCSE QUALIFICATIONS

If you have studied HIGCSEs and IGCSEs you need to have obtained:

- At least four HIGCSE passes (symbols 1 – 3 only) one of which must be English or Afrikaans first language
- One IGCSE pass – C symbol or above
- If you are applying for Science or Pharmacy these subjects must include Mathematics, Science and Biology.

INTERNATIONAL BACCALAUREATE (IB)

If you have studied the International Baccalaureate you normally need to have obtained the following:

- 3 High Level (HL) subjects
- At least grade 4 HL Mathematics or grade 5 on SL
- For Science and Pharmacy a grade 4 on HL for Maths / or 5 on SL Maths, Science and Biology is required
- For Commerce a grade 4 on HL Maths is required
- A Natural Science subject at least Grade 5 at SL or grade 4 at HL: Physics / Chemistry / Biology.
- English (at least SL)
- The points required by each Faculty.

POINTS RATING FOR FOREIGN QUALIFICATIONS AND EXAMPLES

A, O AND IGCSE	SYMBOLS/RESULTS/GRADE		POINTS AWARDED					
	HIGCSE	IB	A LEVELS	AS LEVELS	HIGCSE	O LEVELS AND IGCSE	IB HL SL	
A	1	7	10	5	8	5	10	6
B	2	6	9	4	7	4	9	5
C	3	5	8	3	6	3	8	4
D	4	4	7	-	-	-	7	3
E		3	6	-	-	-	6	2
F			0	-	-	-	-	-

For candidates who offer A and O Levels and HIGCSE and IGCSEs five different subjects are counted. An additional one fifth (1/5th) of the total is added to this total. **Zimsec students only** – deduct three points for a final count.

Examples of foreign qualification scores

STUDENT A			STUDENT B		
Subject	Symbol	Score	Subject	Symbol	Score
Maths A level	A	10	Maths A/S level	A	8
Science A level	B	9	Science A/S level	B	7
English Lit A level	A	10	English Lit A/S level	A	8
History O level	A	5	History A/S level	A	8
Geography O level	B	4	Geography O level	B	5
Total		38	Total		36
Add 1/5th		8	Add 1/5th		7
Total		46	Total		43
If Zimsec		-3	If Zimsec		-3
Total		43	Total		40

Completing the application form

Please read this section carefully. An inaccurate or incomplete application form will hold up the processing of your application. **Please note that if you provide any false information your application will be rejected immediately.**

PAGE 1

POPULATION GROUP e.g. Indian, Coloured, White

We ask this question because some donors have stipulated that their bursaries may only be awarded to a particular race. The Government also requires this information for statistical purposes.

PAGE 2

PLEASE INDICATE ANY PHYSICAL DISABILITY

Examples of a disability would be blindness, cerebral palsy, deafness, paraplegia, partial hearing, wheelchair use. We need this information in order for us to assist you with your needs; it will not jeopardise your application. However, if you do not disclose a disability in your application, you will not be able to claim any concessions in this regard during your registration at Rhodes University (e.g. extra time in examinations, etc.)

DO YOU REQUIRE FINANCIAL ASSISTANCE FROM THE UNIVERSITY? (YES/NO) Answer 'Yes' only if you are not able to obtain funding elsewhere (e.g. a student loan at a bank).

PAGE 3

CHOICES OF DEGREE/DIPLOMA

The degrees which may be taken at Rhodes are listed under each Faculty earlier in this Handbook.

ENROLMENT AT A PREVIOUS TERTIARY INSTITUTION

If you have previously been or are currently registered at another institution a copy of a full academic transcript giving your final results is required. Midyear results may be considered but the Dean may defer his decision until your final results are available. Please submit a **transcript** from the institution – **not** a Result Slip.

PAGE 4

ADDRESS DETAILS

Please complete in detail. We cannot respond to your application if this information is incomplete.

DETAILS OF PERSON RESPONSIBLE FOR FEES

Please ensure that this information is supplied. Do not list a Bursary or Government sponsor. This must be the person who will take care of ensuring that your fees are paid. They are also the person who will liaise with bursary or Government Department to ensure that your fees are paid.

PAGE 5

CURRENT YEAR'S ACTIVITY

Choose one of: Grade 12 pupil at school (i.e. upgrading your results), university student, technician student, technical college student, technical institute student, teachers' training college or labour force (i.e. working). If you have been working or travelling, a letter detailing your activities would be of great assistance.

PAGE 6

EXAMINATION RESULTS

If you have already matriculated or completed your O levels / A levels it is essential that you enclose a certified copy of the certificate.

PAGE 7

TO BE COMPLETED BY YOUR SCHOOL PRINCIPAL (only if you are currently at school).

Please do not use Tippex on your results or alter them in any way. Make sure that the Principal of your school completes this section. Also remember that if you do not have the required points for admission, a positive report from the Principal will assist the University in assessing your potential. If you have left school this section need not be completed.

PAGES 8, 9 AND 10

Complete Section two of the form fully, giving as much detail as possible. The Deans will read this section when assessing your application. It is particularly important if you do not have the required number of points for admission.

PAGE 11

DECLARATION AND AGREEMENT

Make sure that both you and your parent/guardian sign this page of the form – if this is not done the form will be returned to you.

CHECKLIST

Do not forget to include the relevant application fee.

- If you intend to apply for exemptions on the ground of courses completed at a university outside South Africa, the syllabi and course content, certified by that university, must be submitted with your application. If the syllabi are not in English, it is your responsibility to provide a sworn translation.
- If you have completed courses at another South African university, you may apply for credit for such courses when submitting your application form. (Enclose a letter giving full details of credits you would like considered.) Credits will only be granted on receipt of an official transcript of results provided by the other university.

Closing dates and application fees

The closing date for applications is 30 September and the application fee is R100. Late applications (i.e. 1 October or later) will be accepted but the fee for late applications is R175. **No applications from foreign students can be considered after 30 September.**

Information for Foreign Students

This section is compiled from information provided by the South African National Department of Home Affairs, and from the University's own experience. Information provided is for guidance only and should not be considered as definitive or of legal status.

The language of instruction at Rhodes is English.

HEALTH COVER

According to South African Law, all international students are required to have valid medical cover recognised in South Africa.

For further information please consult: www.ru.ac.za/studentzone/future_students/admissions/foreign_students.php

STUDY VISA REQUIREMENTS

All international students (those who are not South African citizens or who do not have permanent residence in South Africa) are required to have a valid study permit prior to being permitted to register at Rhodes University.

Applications for study permits should be made at your nearest South African Consulate, Embassy or High Commission, usually in your home country. A study permit is usually granted for the period of the degree programme for which you are registering at a specific institution. Should you change degree or institution, your study visa will need to be amended accordingly by the Department of Home Affairs. Students are responsible for maintaining the validity of their permits at all times.

Please do not proceed to Rhodes University without a valid study permit.

The following documentation will be required in support of your study visa application:

- an official letter of provisional acceptance from the university
- medical and radiological reports
- relevant certificate (if married, divorced, widowed or separated)

- proof of valid medical insurance recognized in South Africa
- details regarding accommodation
- proof of sufficient funds to cover tuition fees, accommodation, living expenses and miscellaneous costs
- a police clearance certificate (less than 6 months old)
- a repatriation deposit

In addition you will be charged an application fee. Please note that processing time for study visa applications can be six to eight weeks and your passport will be retained by the South African Consulate, Embassy or High Commission for the duration of the application period.

APPLICATION PROCEDURE

Foreign students should note carefully that late applications cannot be considered. The closing date for applications will be strictly enforced.

(a) All foreign applications will only be considered after the closing date of 30 September: Receipt of your application will be acknowledged and you will be notified of the outcome of your application in October.

(b) Undergraduate students who have already completed their school-leaving examinations: International applicants may qualify for exemption through AEB or Cambridge examinations if they have two A level passes (A, B or C) or equivalent. It is not sufficient to pass in O levels alone. Application for exemption will be made through the University after registration.

The University accepts no responsibility for deciding whether a student qualifies for Matriculation exemption or not. It should be noted that obtaining an exemption certificate from the Matriculation Board does not mean that selection is assured.

(c) Undergraduates who are in the process of writing their A level, or other school-leaving examinations:

Please send a copy of your O level certificates and a copy of your latest school report showing your exam results. If you are accepted on the basis of your O level results and provisional A level results, you will receive a provisional offer to study at Rhodes. Once your A level certificate is received (July/August) you should bring this to the Student Bureau and obtain an application form for submission to the Matriculation Board.

LANGUAGE REQUIREMENTS FOR FOREIGN STUDENTS

All applicants, whether at undergraduate or postgraduate level, must have attained a certain level of proficiency in English and must be required to submit evidence of this as part of their application to study as outlined below.

English Foreign Language (EFL) applicants whose primary language is not English are required to submit one of the following:

- A recent overall band score of 7.0 (with no individual element of the test scoring below 6.0) on the International English Language Test System (IELTS).

(Note: an EFL country is defined as one in which English is not, for example, the medium of communication between educated groups or people who do not share a common language, or is not the medium of instruction in schools or a significant medium of written communication.)

FOREIGN STUDENTS LIVING IN RESIDENCE

Please note that during the June/July vacation NO ACCOMMODATION is available for undergraduate students.

PAYMENT OF FEES

New and returning students

Tuition and residence fees for all new and returning students **resident in South Africa** are due and payable prior to the given MIP date but as a concession may be paid by either:

South African Students

- paying the Minimum Initial Payment for tuition fees and, where applicable, residence fees, by 14 January 2011 as set out below, the balance of fees to be paid by 31 May, OR
- making a single cash or cheque payment of the full tuition fee and, if applicable, the full residence fee prior to 14 January 2011. A 5% discount may be claimed in writing in this instance, OR
- arranging payment by debit order with 10 monthly instalments from 1 February to 1 November. The debit order application form, obtainable from the Student Bureau, must be signed by the person whose bank account is to be debited and returned to the Registrar (Finance) one week prior to the MIP date given. Incomplete applications will not be considered. The facility must be approved prior to registration.

In the event of any instalment being dishonoured, the debit order facility may be cancelled by the University, in which event the conditions contained in paragraph 1 above will apply and fees must be paid in full by 31 May. All bank charges will be for the student's account.

The University may, at the discretion of the Registrar (Finance) decline to make this facility available to any student. This option is not available to international students.

Recipients of Rhodes University financial aid packages are required to pay the Minimum Initial Payment stipulated in their agreements by 7 January 2011. This will normally be 50% of the amount due as the student's own contribution towards the fees.

Foreign Students

Foreign students are required to pay full tuition and residence fees prior to the given MIP date.

Master/Visa credit card facilities are available for all payments. No discounts may be claimed if this method of payment is used.

FINANCIAL ASSISTANCE FOR FOREIGN STUDENTS

- No bursaries or loans are awarded by the University's Bursaries Committee to foreign students and you should ensure that you have sufficient funds in your own country before leaving.
- You should also make enquiries about possible financial assistance from within your own country. Sometimes bursaries and scholarships are available for study in other countries. You should contact foreign embassies or funding agencies in your own country.

Fees and Financial Aid

FEES

Fees are set by the University Council during October or November each year so the exact fees for 2011 will only be known towards the end of 2010. It is likely that fees will be increased but to assist you in your planning the fees for 2010 are:

Tuition fees (vary from degree to degree) – R30 000 to R38 750. **Residence fees** (all meals – not including vacations) – R38 400 to R43 500 depending on grade of accommodation chosen. Book allowance for books and stationery – approximately R5 000.

Note that this does NOT include travel expenses or pocket money. In planning for next year it is suggested that you allow for an increase in tuition and residence fees of between 10% to 14%, and you should note that fees are increased each year.

If you are offered an academic place at the University you will be asked to send a non-refundable deposit to book your academic and residence place (if required). Full details of the deposits required will be supplied to you if you are offered an academic place in the University. The deposit will be credited to your account when you register and will be used to reduce the amount owing on your account.

Before you are permitted to register at the University, a Minimum Initial Payment (MIP) of approximately half the annual fee is required, but if you hold a bursary or scholarship the MIP may be reduced in certain circumstances. Full details of the amounts due and the dates by which they must be paid will be supplied in your letter of acceptance, if you are offered an academic place in the University.

FEES FOR INTERNATIONAL STUDENTS

Returning international students will be required to pay their tuition and residence fees for the year in full by 14 January 2011. Where such fees are to be paid with bursary funds these must be received by the University prior to registration.

Please note that International Students are required to pay an additional surcharge of between R5 700 and R11 900 per annum.

NOTE: Students who apply for accommodation in the university residence system will only be considered if their full fees are paid by the respective dates as listed.

When tuition and residence fees (if applicable) are paid in full by MIP date, a 5% discount may be claimed subject to payments being made in cash or by cheque payment of the full tuition fee.

MERIT AWARDS (SOUTH AFRICAN APPLICANTS ONLY)

Merit awards are calculated on your results obtained in the final Matric Examinations and will be automatically credited to your fees account after registration (in other words, you do not need to apply for this award). These awards are calculated as follows (correct December 2009):

Merit awards for NSC candidates:

Point Score	Arts and Commerce	Science and Pharmacy
51 – 52 points	R 21 000	Full Tuition
53 + points	Full Tuition	Full Tuition

Merit awards for Senior Certificate Candidates (first time entering only):

Point Score	Arts and Commerce	Science and Pharmacy
44 – 45 points	R 14 400	Full Tuition
46 – 47 points	R 17 500	Full Tuition
48 + points	Full Tuition	Full Tuition

PLEASE NOTE THAT FOREIGN STUDENTS ARE NOT ELIGIBLE FOR MERIT AWARDS.

OLD RHODIAN BURSARIES

If you are the son or daughter of an Old Rhodian you may request an application form for an Old Rhodian Bursary directly from the Financial Aid Office. There are no restrictions on family gross income for these bursaries; however, a means test is applied to determine the most needy applicants.

Applications from students undertaking postgraduate studies will only be considered should funds permit. The closing date for applications is 15th March.

FINANCIAL AID

Financial assistance can help you afford a Rhodes education. Unfortunately there is no financial assistance available for foreign students.

On the second page of your application form, you are asked the question 'Do you require financial assistance from the University? (Yes or No)'. **This question should be given very serious consideration.** Applicants should only indicate that they require financial assistance if it is absolutely necessary and not 'just in case' they get an award. Applications for financial assistance are only considered if the gross family income is below a certain level. This level is determined from year to year depending on the amount available for financial aid.

Awards are based on your family's financial circumstances and your academic performance. The information required by the selection committee will be based on your application form, so a fully completed form is absolutely necessary. Financial assistance takes the form of bursaries, loans and scholarships. If finances are preventing you from studying, do not hesitate to apply for assistance.

At the beginning of the 21st century business and commerce in South Africa face new and exciting challenges. On the one hand the world has become a global village in terms of speed of transfer of information and technology, and the exploitation of markets calls for highly sophisticated expertise to acquire and maintain a competitive edge. On the other hand our country is grappling with the development of its economy, starved of competitive participation internationally for decades, whilst also taking up the challenge of being a key participant in the regional economy. The men and women who will make South Africa a winning nation by providing the business and commercial skills necessary to uplift our people and to launch our country into the global economy will be those who are equipped with the knowledge and particularly the adaptability to compete in today's information driven world.

Through its structured curricula the Faculty of Commerce at Rhodes University prepares its graduates for the leading roles they will be expected to play in their professional lives in the new millennium. Our programmes span the entire range of Accounting, Economics, Management, Information Systems, Mathematical and Statistical Sciences as well as the fields of Commercial Law and Organisational Psychology, to name but a few.

Our degrees and diplomas receive wide recognition, in both the academic and professional communities. The Faculty also contributes to social upliftment through its Extended Studies Programme which is aimed at improving the life and academic skills of candidates from disadvantaged backgrounds to enable them to enter the mainstream of academic life, and through its Postgraduate Diploma in Enterprise Management which is aimed at improving the flow of qualified entrepreneurs to our economy.

One of the factors which sets the Commerce Faculty at Rhodes University apart from others is the integration of the academic and social experience enjoyed at a high quality institution. Modern business is not only about technology and know-how, but also to a very large extent about people. With fifty percent of undergraduate students resident on campus the undergraduate gains social skills with his or her peers which will be invaluable in later life.

The major subjects offered in eight departments form the core of the Commerce Faculty. A brief introduction to these departments follows. See too the section on Areas of Study.

ACCOUNTING

Accounting is essentially an information system concerned with gathering, recording, analysing and interpreting financial data about the activities of businesses and other organisations. It is concerned with interpreting and communicating this information to managers and others who use it to make business decisions. Accounting can be regarded as 'the language of business', since it forms a part of the language used by business managers, lawyers and economists.

The process of gathering, recording, measuring, analysing and interpreting financial data involves two interrelated activities. The first is 'book-keeping', recording and analysing of business transactions according to a set of prescribed rules and arithmetical procedures. The second is 'accounting', designing book-keeping systems and preparing and interpreting reports, such as annual financial statements, which measure in money terms the wealth of a business at a particular time and its 'performance' over a specific period.

Accounting is a practical activity performed by highly trained accountants who often belong to a professional body such as the South African Institute of Chartered Accountants or the Chartered Institute of Management Accountants. It is also an intellectual discipline concerned with the models, concepts and principles used to measure the wealth and performance of business organisations.

ECONOMICS

Economics, along with Psychology, Sociology, Politics and Anthropology is a Social Science. Economics concentrates on the aspects of human behaviour involved in the consumption and production of goods and services. It sets out to understand and explain how individuals, business firms, government and other agencies apply resources – labour, land and capital – and how their decisions collectively impact on employment, prices and the welfare of people and countries. The economy is the environment in which businesses operate, interest rates are determined, finance is obtained and international trade is conducted. It is also the environment in which individuals and households decide on what further education to pursue, what to do with their working lives and how to spend their earnings. To understand the complex workings of the economy, economists approach problems by using a particular way of thinking, which means that the emphasis in the discipline is on an economic logic, rather than on ready made recipes and remembering 'facts'. It means, therefore, understanding is the key to the discipline, and that memorisation in economics is the sure road to disaster.

Economics covers topics such as Microeconomics (the study of production and consumption by households, firms and industries), Macroeconomics (the study of the economy as a whole, including monetary and fiscal policy, national income accounting, unemployment and inflation), International Trade, Public Finance, Money, Banking and International Finance, Economic History, Environmental Economics, Mathematical Economics and Econometrics.

Every student in the Commerce Faculty is required to study Economics for two years. It is seen as a vital foundation of underlying knowledge on which other disciplines can build. The thought processes, logic and skills acquired here are vital for you to successfully operate in a business environment. Since Economics touches so many parts of life it may equally be taken together with any of the Social Sciences, Sciences, Journalism, Law, and many others.

Economics at Rhodes is offered at a number of distinct levels. The first year course is intended as a broad introduction to the discipline which will give students taking only one year of Economics a sound understanding of basic issues, while laying the foundations on which more advanced study is built. In subsequent years students undertake more advanced study of micro economics, the underlying principles for the study of the individual firm or business, and macro economics, the study of the principles governing the operation of the wider economy. There is a strong focus on problems of the South African economy at all years of study.

Economics graduates are sought after in both the private and public sectors of the economy. Jobs in banking and other areas of the corporate world draw particularly on the skills of the economist. Similarly, graduates with economic training are in high demand in government Departments such as Finance and Trade and Industry.

MANAGEMENT

Management as an applied social science is concerned with the study of those factors, principles and methods which will lead an organisation to attain its objectives as a component of a wider system.

While the Department of Management at Rhodes University focuses primarily on business organisations, which as part of a wider economic system strive to attain their profit objectives, the factors, principles, and methods studied are held to be applicable to any organisation which is intent on achieving a set of objectives while operating under conditions of resource constraints.

The total field of management is divided into six main functional areas:

The general management function. This includes an examination of the management process as a whole: the planning that management has to do, the organisation that it has to establish to carry out its plans, the leadership that management has to assume, the motivation of people necessary to get things done, and the control that has to be exercised over the whole process. On the one hand it embraces the overall function through which top management formulates and implements strategies for the organisation as a whole (strategic management and organisational behaviour), and on the other it cuts through all the other functions because such activities as planning and control are not only carried out at the top level, but also in each functional area.

The marketing function is responsible for the marketing of the products or services of the enterprise. This includes the assessment of the market and the needs of consumers as well as the development of a strategy to satisfy those needs profitably.

The financial function includes the acquisition, use and control of the money the enterprise needs to finance its activities, to buy materials and equipment. Care must be taken not to endanger the liquidity or solvency of the business.

The production or operations management function includes that group of activities concerned with the physical production of products.

The purchasing function is responsible for the acquisition of all products and materials required by the business to function profitably, namely raw materials, components, tools, equipment and, in the case of a dealer, the inventory.

The personnel function, or human resources management, is responsible for the appointment, development and maintenance of the human resources of the organisation.

The above six functional areas of management are covered at various points in Management 1, 2 and 3. In delivering these courses, use is made of lectures, tutorials, case-study discussions, video case-studies, lectures by visiting business people and visits to business organisations in East London and Port Elizabeth. In addition, the Department uses a computer laboratory which enables it to integrate computer business simulations into the senior courses.

The Department of Management offers a Postgraduate Diploma in Enterprise Management. Designed for BA, BSc, BSocSc and BCom graduates who have not majored in Management, it will aim to teach students about, for, and through entrepreneurship. Students will thereby be enabled to seriously consider creating their own employment.

INFORMATION SYSTEMS

Information Systems is an engineering and a management discipline. It encompasses the complex interaction between dynamic people and applied computer technology in an organisational context.

The 'information age' has resulted in diverse and unusual careers relating to the field of Information Systems. Information Systems graduates are often initially employed as programmers, systems analysts, business analysts or consultants. However, due to the integrated use of information systems in organisations, many Information Systems professionals are employed in a variety of other disciplines that require an understanding of information systems.

Increasingly, Information Systems professionals are sought after for senior executive positions due to their solid background in Information Systems and their understanding of the business processes.

In this 'computer era', whatever career one desires, a solid grounding in the principles of developing, applying and managing information systems is desirable and advantageous. Information Systems is fast becoming one of the most sought after disciplines in organisations worldwide.

The Department of Information Systems at Rhodes University has been successful in its attempts to remain at the forefront of the rapid changes that characterise the field. By maintaining a close relationship with a variety of organisations, both within and outside South Africa, it has prevailed as a centre of excellence in the field of Information Systems.

The Department of Information Systems is big enough to be recognised, but small enough to be personal. The Department prides itself in giving its students personal attention and assistance at all times and staff prefer to maintain an open door policy.

The Department offers a number of fields of study through which you can learn and master the skills and abilities needed as an Information Systems professional. There is a wealth of practical and theoretical knowledge available from the lecturers, many of whom are leaders in their particular field of study.

In addition, the Department places emphasis on effective communication skills, understanding of group dynamics and other 'soft skills'. Workshops are run throughout the year, at various levels, in order to ensure that these skills are gained.

Computing facilities at Rhodes University are amongst the best in South Africa. The Department has well equipped student laboratories of networked microcomputers. The laboratories are for the sole use of the department's students and each class has its own laboratory. This 'state of the art' technology is available and accessible to all Information Systems students 24 hours a day and seven days a week.

The students are encouraged to access computer networks, locally, nationally and internationally and are given full Internet access. The University and Departmental Libraries contain an extensive range of books, journals, magazines and compact discs covering most of the fields in the Information Systems discipline.

COMMERCIAL LAW

Contract is the essence of commerce. A commerce graduate without a basic knowledge of the law of contract within the context of our legal system would be well advised to stay out of the commercial world. This is why **Commercial Law 1** is a core course in every BCom non-legal curriculum offered at Rhodes.

The course is examined in two three hour papers. The first paper includes a basic introduction to our legal system, a sound grounding in the law of contract and the principles of the contract of sale. The second paper embraces the principles of the law relating to partnerships, close corporations and registered companies and those relating to labour law and commercial agency.

Commercial Law 2 comprises the basic principles of the law relating to letting and hiring, selected property law statutes, mortgage pledge and lien, carriage of goods, suretyship, marketing law, arbitration, insurance, insolvency, negotiable instruments, administration of estates and a more advanced course in company law.

A glance at the subject matter of this course indicates how very valuable it would be to anyone venturing into the commercial field. The contents of this course comply with the requirements laid down by the South African Institute of Chartered Accountants.

The BCom (Law) curriculum

Legal Theory is a three year major subject available in the Faculty of Commerce which entitles a candidate to six semester credits towards the LLB degree at Rhodes University. The first year deals with an introduction to the study of Law and Legal Systems; the second year covers Legal Interpretation, Constitutional Law; Law of Contract and the Law of Lease and Agency and the third year covers Business Structures, Labour Law, Law of Property and Security, Law of Persons and Law of Husband and Wife.

A candidate who has majored in Legal Theory and who satisfied the criteria of the Faculty of Law for admission to the LLB degree is able to complete the LLB degree at Rhodes University in a further two years of full-time study.

Because of the nature of the work involved the BCom (Law) degree is an excellent undergraduate qualification for prospective attorneys. It provides a sound background for LLB candidates wishing to specialise in the field of commercial and corporate law.

PSYCHOLOGY

Psychology is the scientific study of human experience as it is lived in different political, socioeconomic and cultural settings. It is a science that offers a description of the range of human emotions, abilities and thought processes. It examines people's attitudes and motives, both conscious and unconscious.

The discipline of Psychology contains broad and important areas of study such as clinical and counselling psychology, educational psychology and organisational psychology. Regarding the latter, this refers to the application of psychological research and theory to enhancing productivity and job satisfaction as well as solving problems related to work and with organisations.

Organisational Psychologists are concerned with performance of people at work and in training, and with developing a full understanding of how organisations function and how individuals and small groups behave at work. Given the rapidity of change in all aspects of modern society, particularly in South Africa, the services of organisational psychologists are in increasing demand.

The aims of Organisational Psychologists are to increase the effectiveness of the organisation or group and improve the job satisfaction of the individual. To achieve these aims, activities are many and varied so that Organisational Psychologists may undertake work in fields such as Organisational Consultancy, Assessment and Training, Economics, Health and Safety.

Organisational Psychologists may also work in advisory, teaching and research roles and, perhaps to a lesser extent, in technical and administrative roles.

Some of the areas in which Organisational Psychologists might be called upon to work would be concerned with organisational change and development, interpersonal relationships, group and intergroup processes, unemployment (how this is managed by organisations and how individuals cope with unemployment, redundancy, retirement or job seeking for instance) and industrial relations.

Organisational Psychologists are also concerned with the broad area of assessment and training. This would include such elements as recruitment, training, appraisal, attitude surveys and experimental research as well as the occasional guidance and counselling.

To major in Organisational Psychology, one has first to take Psychology 1 before being eligible to enrol for Organisational Psychology 2, and thereafter Organisational Psychology 3. Organisational Psychology, as a major subject in the degree, provides many opportunities, and the holder of such a degree might, for instance, be referred to as a Personnel Consultant or a Human Relations

Manager and so on. However, it is only legally permissible to refer to oneself as an Organisational Psychologist once one has registration as such with the Professional Board for Psychology. This requires a directed Master's degree together with appropriate experience during an industrially based 12 month internship programme.

SOCIOLOGY

Sociology as a discipline aims at understanding the social influences which help to shape our lives. A sociologist's main task is therefore to understand what lies beneath the visible aspects of social life as well as what factors influence the behaviour of people.

Because of the complex nature of social reality, sociologists usually specialise in issues related to a particular aspect of social life. Students working towards a degree in the Commerce Faculty might therefore be more interested in industrial & economic sociology as part of the curriculum.

At Rhodes University students do a core year of general sociology and then specialise at second and third year in industrial and economic sociology. If we say that sociology is a discipline concerned with the scientific analysis and understanding of society, it follows that industrial & economic sociology can be seen as the application of sociological knowledge to the industrial sphere.

Industrial & economic sociologists are concerned with understanding the nature and functions of industry, and its impact on society. This ranges from a study of the rise of modern corporations and the spread of industrialisation to an examination of changes in managerial strategies.

Industrial & economic sociology equips the student with the analytical tools to understand the social context in which industries function. This includes an analysis of:

- industrial relations
- industrialisation and development
- organisational studies
- trade unions
- technological changes
- the nature of work in modern societies.

A premium is placed on research and report writing skills. Both Industrial & Economic sociology 2 and 3 contain a research component which is designed to take students step-by-step through the process of social scientific research. These skills will prove invaluable to most career paths a commerce student may choose.

A background in industrial & economic sociology provides a student not only with a wide-ranging introduction to industrial societies, but also allows for an insight into the group dynamics that shape the evolution of industrial organisations. Our students have found employment as human resource managers, industrial relations consultants, development consultants, researchers, advisors to policy makers and public relations officers. Industrial & economic sociology can be a great asset to any commerce student and will reveal the human and social side to all business decisions.

STATISTICS

Statistics is the science of decision making in the face of uncertainty, and finds application in such diverse fields as gambling, life insurance, design and analysis of surveys, design of factorial experiments, quality control and analyses of reliability of complex systems, to name but a few.

Statisticians find employment in commerce and industry, research institutes and government departments where they are in demand not only for their specialised training, but also for their logical approach to diverse scientific and technical problems.

Training in statistics is essential for would-be actuaries, and prospective social and biological scientists are well-advised to include at least one course in statistics in their curriculum.

Mathematical Statistics provides the theory and the tools for Statistics and also for the study of dynamic phenomena which can be described in terms of the laws of chance, such as queues, inventory systems, communication systems, time series, quantum mechanics, etc.

The Department of Statistics at Rhodes offers a two-year major course in Statistics starting in the second year after a credit has been obtained in Mathematics.

The course is aimed at providing both a sound foundation in statistical mathematics and competence in the practice of certain areas of statistics. To meet these objectives the department has highly qualified teaching staff and a modern computer laboratory. This supports some of the major statistical packages, in which user instruction is given.

Student numbers in the second and third year courses are small and classes, tutorials and practicals in Mathematical Statistics are conducted in a friendly and relaxed small group atmosphere. Students have almost unlimited access to their teachers and to excellent computing facilities.

The department also offers a general first year course in statistics for students in the Humanities and Sciences. This course is not a pre-requisite for studies in Statistics but it is a valuable course which may be taken either before or concurrently with the Statistics courses.

The structure of a Commerce degree

Given below are **examples of standard curricula**. It should be noted that subject choices may be limited by the lecture timetable. Courses may however be taken in different year order to those set out below in order to avoid timetable clashes where they occur.

1. BACHELOR OF BUSINESS SCIENCE

The curriculum for the degree consists of compulsory courses in Accounting, Commercial Law, Communication, Computing, Economics, Mathematics, and Statistics, together with courses in subjects comprising fields in which the student has a special interest. In-depth specialisation takes place in the fourth academic year during which the student will generally be taking honours courses. The degree can be taken with specialisation in any one of the following fields, or jointly in two of these fields:

Economics Information Systems	Computer Science Management	Quantitative Management
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An **example** of a curriculum in each of these fields of specialisation is given below. **Note that other subject combinations are possible.**

Curriculum 1: (Economics)

First Year	Second Year	Third Year
Computer Science 101	Economics 2	Economics 3 and 3 B
Economics 1	Management 2	Management 3
Management 1	Commercial Law 1	Professional Communication
Mathematics 1	Mathematics 2 or	
Statistics 1D	Mathematical Statistics 2	
Accounting 1		
Fourth Year	Economics Honours with an optional paper in Strategic Management.	

Curriculum 2: (Information Systems)

First Year	Second Year	Third Year
Accounting 1	Economics 2	Economics 3
Computer Science 101	Information Systems 2	Information Systems 3
Economics 1	Management 2	Professional Communication
Management 1	Commercial Law 1	
Mathematics 1	Mathematics 2 or	
Statistics 1D	Mathematical Statistics 2	
Fourth Year	Information Systems Honours or Joint Honours with an optional paper in Strategic Management.	

Curriculum 3: (Management)

First Year	Second Year	Third Year
Accounting 1	Economics 2	Information Systems 3
Computer Science 101	Information Systems 2	Management 3
Economics 1	Management 2	Professional Communication
Management 1	Commercial Law 1	
Mathematics 1	Mathematics 2 or	
Statistics 1D	Mathematical Statistics 2	
Fourth Year	Management Honours or Joint Honours (including Strategic Management 4 paper).	

Curriculum 4: (Quantitative Management)

First Year	Second Year	Third Year
Accounting 1	Commercial Law 1	Mathematical Statistics 3
Computer Science 101	Economics 2	Management 3
Economics 1	Management 2	Professional Communication
Management 1	Mathematical Statistics 2	
Mathematics 1	Information Systems 2	
Statistics 1D		
Fourth Year	Mathematical Statistics Honours or Joint Honours with an optional paper in Strategic Management.	

Curriculum 5: (Computer Science)

First Year	Second Year	Third Year
Accounting 1	Computer Science 2	Computer Science 2
Computer Science 1	Commercial Law 1	Management 3
Economics 1	Economics 2	Professional Communication
Management 1	Management 2	
Mathematics 1	Mathematics 2 or	
Statistics 1D	Mathematical Statistics 2	
Fourth Year	Computer Science Honours or Joint Honours with an optional paper in Strategic Management.	

2. BACHELOR OF COMMERCE

The curricula generally require candidates to specialise up to third year level in two chosen fields.

Curriculum 1: (General)

This curriculum is designed for those who wish to specialise in one or more of the following fields: Accounting, Economics, Information Systems, Management or Statistics.

Various combinations of subjects are possible, and it must be stressed that the following is just **one example** of a number of general curricula that can be followed:

First Year	Second Year	Third Year
Accounting 1	Economics 2	Two of:
Commercial Law 1	Two of:	Management 3
Economics 1	Accounting 2	Economics 3
Management 1	Management 2	Information Systems 3
Theory of Finance and Statistics	Commercial Law 2	
Computer Science 101*	Information Systems 2	
	One further approved course from list eg. Psychology 1	
	Professional Communication	

*Computer Science 101 is a pre-requisite for Information Systems 2

Curriculum 2: (Accounting)

Students who wish to enter the Accountancy profession are advised to follow this curriculum, which will enable them to register for the DipAcc(PG) in their fourth year of study and also entitle them to be registered with the Institute of Accounting Technicians. They are also exempted from the Foundation stage and two papers in the Certificate stage of the Chartered Association of Certified Accountants (ACCA) examinations. Entry into the DipAcc (PG) is subject to the approval of the Faculty Board which only admits candidates with a good academic record. Accounting Honours is also an option for selected students.

First Year	Second Year	Third Year
Accounting 1	Accounting 2	Accounting 3
Commercial Law 1	Commercial Law 2	Auditing 1
Computer Science 101	Economics 2	Management Accounting and Finance 1
Economics 1	Information Systems 2	Finance 1
Management 1	Professional Communication	Tax 1
Theory of Finance and Statistics		

Curriculum 3: (Law)

This curriculum is designed to enable students to complete the LLB degree in two further years of study. **A number of different subject combinations are possible**, the following being **one example**:

First year	Second Year	Third Year
Accounting 1	Economics 2	Economics 3
Economics 1	Legal Theory 2	Legal Theory 3
Legal Theory 1	Management 2	
Management 1	English 1	
Theory of Finance and Statistics	Professional Communication	

Curriculum 4: (Inter-faculty)

This curriculum is designed for students who wish to combine a study of commerce subjects with subjects in Science, Social Science or Humanities. **A number of different subject combinations are possible**, the following being **one example**:

First Year	Second Year	Third Year
Accounting Economics 1 Management 1 Psychology 1 Theory of Finance and Statistics	Economics 2 Organisational Psychology 2 Management 2 Commercial Law 1 Professional Communication	Organisational Psychology 3 Management 3

3. BACHELOR OF ECONOMICS DEGREE

A number of different curricula are possible, although each curriculum must include at least four courses in Economics. Curricula may be chosen with a bias to the Business Sciences, Social Sciences or to Mineral Economics. **The following are examples of these curricula:**

Curriculum 1: (Business Sciences)

First Year	Second Year	Third Year
Accounting 1 Economics 1 Management 1 Theory of Finance and Statistics	Accounting 2 Economics 2 Management 2 Psychology 1 Professional Communication	Economics 3 and 3B Management 3

Curriculum 2: (Social Sciences)

First Year	Second Year	Third Year
Economics 1 Politics 1 Sociology 1 Theory of Finance and Statistics	Economics 2 Industrial & Economic sociology 2 Politics 2 Psychology 1 Professional Communication	Economics 3 and 3B Industrial & Economic sociology 3

Curriculum 3: (Mineral Economics)

The Bachelor of Economics (Mineral Economics) is intended for students who wish to become economists with a geological background. The curriculum is designed to apply economic principles to the exploitation of mineral resources, and combines courses from the Faculties of Science and Commerce. Because of timetable clashes this degree may be required to be taken over more than three years.

First Year	Second Year	Third Year
Accounting 1 Chemistry 1 Economics 1 Geology 1 Management 1	Economics 2 Geology 2 Management 2 Theory of Finance and Statistics Professional Communication	Economics 3 Geology 3

Curriculum 4: (Environmental Science)

First Year	Second Year	Third Year
Economics 1	Economics 2	Economics 3

Management 1 Theory of Finance and Stats 1D; or Maths 1 or 1E Earth Science 101 and Geography 102 Anthropology 1; or Biology 1; or Botany 1; or Zoology 1; or Geology 101.	Environmental Science 2 Management 2 or Information Systems 2* Accounting 1; or Botany 2; or Geography 2; or Zoology 2; or Comp Sc 101 and any one-credit course Professional Communication	Environmental Science 3
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* Candidates must complete Computer Science 101 before being admitted to Information Systems 2.

4. EXTENDED STUDIES: COMMERCE

Candidates who meet the admission requirements laid down by the Commerce Faculty, but consider themselves under-prepared to tackle a full first year course load should opt for taking this Programme. Prospective students who do not meet the admission requirements have the opportunity for entrance into the Faculty via this programme.

Courses are as follows:

- Accounting 1F (one credit)
- English Language Skills (two credits)
- Business and Life Skills (non-degree purposes)
- Computer Science (one credit)
- Theory of Finance (one credit)
- Economics 102 (one credit)

Success in the programme will allow students to continue with a full BCom, BEcon or BSocSc degree. Emphasis in this programme is on small group teaching and active learning. As a result the number of students that can be admitted to this programme is limited.

Faculty of Education

The Faculty of Education has dynamically positioned itself at the forefront of education transformation in the country. This is not a place for the faint-hearted, and demands 'sinesibindi' (literally in isiXhosa that we have a liver, but figuratively meaning that we must have courage)! The phrase 'caring quality' accurately sums up the reputation that the Faculty has gained for its commitment to students and to work in the education field. The Faculty concerns itself with education in the broadest sense, including the professional preparation of teachers, further in-service qualifications, as well as non-formal education. While operating predominantly in the Eastern Cape, the Faculty also serves the country and the SADC region. Apart from teaching and supervision, it is deeply involved in research, national policy development, and professional and community work.

The Faculty is centred around the Department of Education which works in close partnership with CHERTL (Centre for Higher Education Research Teaching & Learning), RUMEP (Rhodes University Mathematics Education Project), the CSD (Centre for Social Development), and the ISEA (Institute for the Study of English in Africa).

The Faculty offers a range of degrees, diplomas and certificates in education, ranging from non-formal undergraduate certificates to full research doctoral degrees.

Professional qualification as a teacher

There are two ways to qualify as a professional teacher. The route offered at Rhodes is that of first completing a three year bachelor's degree in another faculty, e.g. Humanities, Commerce, Science, and then 'capping' it with a one year PGCE (Postgraduate Certificate in Education). If you opt for the degree + PGCE route, you are strongly advised to check out your subject course with the Dean *before* you embark on your degree, in order to ensure that you will ultimately be eligible for the PGCE.

(The other way to qualify as a teacher is to complete a four year undergraduate Bachelor of Education degree, focusing on a specific phase level with particular specialities. The option is not currently offered at Rhodes, although it is being pursued as a possibility in the future.)

PGCE (SP/FET)

You are expected to be able to teach at least one subject at the FET phase and, if not two, then another one at the Senior Phase. Here are the various requirements:

FET Phase (Grades 10 – 12)

School subject	University subject(s) and minimum year level
Accounting	Accounting 2
Life Sciences	Zoo 1, Botany 1 + one of Zoo 2, Botany 2, Microbiology 2, Entomology 2, Environmental Science 2
Computer Studies	Computer Science 2 OR Computer Science 1 + Information Systems 2
Computer Applications Technology	Computer Science 1 OR Information Systems 2
Design	A combination of subjects from a range of appropriate technology-related subjects, eg Practical Art, Computer Science, Design Studies, Physics, Chemistry, Mathematics, Engineering, Architecture. Each application to be examined and decided on its merits, including consideration of matric subjects.
Dramatic Arts	Drama 2
Economics / Business Economics	Economics 2
Geography	Geography 2
History	History 2
Language – First Additional Language	A particular language at 2nd year level (for English - First Additional Language: English 2 + Linguistics 1 OR English 1 + Linguistics 2)

Language – Home Language	A particular language at 2nd year level
Life Orientation	Psychology 3 OR Psychology 2 + any one of the following: <ul style="list-style-type: none"> Philosophy 2 Biblical Studies 2 Anthropology 2 Social work 2 HKE 2
Mathematics	Mathematics 2 OR Mathematics 1 + Maths Stats 2 / Applied Maths 2
Mathematics Literacy	Matric Mathematics + one or more of a range of business and science subjects. Each application will be considered on merit.
Music	Musicology 3 + Instrument at 2nd year level + Theory of Music (Grade 8) + Piano (Grade 5)
Physical Science	Physics 2 + Chemistry 1 OR Physics 1 + Chemistry 2
Visual Arts	Studio Practice 2

Senior Phase (Grades 7 – 9)

School subject	University subject(s) and minimum year level
Arts and Culture	At least two subjects from a range of appropriate Arts subjects, eg music, drama, anthropology, classics. Each application to be examined and decided on its merits, including consideration of matric subjects.
Economic Management Sciences	At least two subjects from a range of appropriate business subjects, eg accounting, management, economics. Each application to be examined and decided on its merits, including consideration of matric subjects.
Languages - First Additional Language	A 1st year in that language (or Linguistics 1 for English)
Languages - Home Language	A 1st year in that language
Life Orientation	Psychology 3 OR Psychology 1 + one of the following: <ul style="list-style-type: none"> Philosophy 2 Biblical Studies 2 Anthropology 2 Social work 2 Sociology 2 HKE 2
Mathematics	Mathematics 1
Natural Sciences	At least two or the following: Botany 1, Biology 1, Chemistry 1, Earth Sciences 1, Geography 1, Geology 1, Physics 1, Zoology 1.
Social Sciences	Geography 1 and/or History 1 (preferably both)
Technology	At least two subjects from a range of appropriate technology-related subjects, eg Practical Art, Computer Science, Design Studies, Physics, Chemistry, Mathematics. Each application to be examined and decided on its merits, including consideration of matric subjects.

PGCE (Intermediate Phase, Grades 4 – 6) and PGCE (Foundation Phase, Grades 1 – 3)

Any appropriate undergraduate degree – please check with the Dean or HOD that your subjects are relevant.

Faculty of Humanities

The Faculty offers a wide range of possible degrees and course combinations. Students can major in Journalism and Politics, Classics and French, German, isiXhosa, Afrikaans or any other language offered, or Management and Industrial Sociology or Organisational Psychology, or Fine Art and History, or Information Systems and English or Philosophy and Anthropology, or Computer Science and Music, or Mathematics and Drama or Linguistics.

The Faculty of Humanities offers an excellent liberal arts education – an education for life and an education which is formative for almost any career choice. A liberal arts education provides students with critical reasoning skills, in particular the ability to analyse and evaluate arguments, to probe for hidden assumptions, to organise complex material in coherent ways; with an ability to understand the views of others; the ability to communicate well; a capacity to cope with ambiguity and uncertainty; and an acknowledgement of one's own ignorance. It is an education that introduces students to the formative moments of their histories, their societies and their identities. It allows students to enjoy the worlds of music and drama and literature and languages.

It opens worlds.

The Faculty provides an education and not a training. As such it provides students with the critical skills and characteristics which are so important for our individual and national development. All of the above may be combined with degrees or courses which are more immediately career oriented than the liberal arts education. Specialised degrees in Journalism or Fine Art or Music are offered, but all within the context of a broad rather than a technical education.

Curriculum Requirements

The standard curriculum for the BA and BSocSc requires a total of 10 courses. (A course consists of all lectures, tutorials and assignments in one subject during one academic year.) A curriculum for these degrees normally contains four courses in the first year, four in the second and two in the third. At least four of these must be non initial courses – which happens automatically if two third year major subjects are completed. The courses have to be chosen from the groups of subjects listed under the BA and BSocSc in the Calendar, in accordance with the regulations. Some are divided into semester or half courses, and are completed or 'written off' in the midyear examinations (if taken during the first half of the year). Two semester credits count as one course towards the ten required for the degree.

Your curriculum must include at least two major subjects. A few major subjects consist of two courses, most of three. The major subjects form the real substance of your degree, and you are therefore advised to decide on your possible major subjects first, and then to select appropriate additional subjects with a view to supporting the majors. Some majors have compulsory ancillaries. You are strongly advised to give preference to courses in the first year which could lead to majors, since you will then have other options for majors available should you fail in the first course of one of your proposed majors, or should your interests change.

Finally, it is important to check that the courses selected do not clash on the lecture timetable. Certain combinations of major subjects are not possible. The degree is granted after all courses have been completed in accordance with the regulations.

The Humanities Faculty offers a number of degree and diploma programmes at undergraduate level:

A. BACHELOR OF ARTS DEGREE

A BA degree normally takes three years to complete. Ten courses need to be completed which must include two major subjects. To obtain a major subject, first, second and third year level courses must be completed, e.g. History 1, History 2, History 3. Some majors require only two courses, e.g. Classical Civilisation 1, Classical Civilisation 2. These are the exception however.

Possible major subjects are listed below:

Afrikaans en Nederlands (2)	Greek+
Anthropology	History
Applied Mathematics (2)	Human Kinetics and Ergonomics
Art History and Virtual Culture	Organisational Psychology (2)
BA Studio Practice (Fine Art)	Industrial & Economic Sociology (2)
Classical Civilisation (2)	Journalism & Media Studies
Computer Science	Latin+
Drama	Legal Theory
Economics	Mathematics
English	Mathematical Statistics
English Language and Linguistics	Music
Environmental Science (2)	Philosophy (2)
Ethnomusicology	Politics
French++	Psychology
Geography	Sociology
German*	Xhosa (Non Mother Tongue)*

+ With the exception of Latin IB, other Latin and Greek courses will only be offered if staffing resources permit.

(2) Two year major subjects

++ An Introductory course is offered in this language, four years being required to complete a major in French if one does not begin with matric level.

* The German and isiXhosa courses are designed for students with little or no prior knowledge of the language.

These **Sample Curricula** are provided to illustrate how to build up a three year BA degree. Note that these are only examples of numerous possible curricula. Ancillary subjects may be chosen from a wide variety of Humanities courses.

First Year (4 courses)

English 1
Geography 1
Psychology 1*
Xhosa (NMT) 1*

Second Year (4 courses)

English 2
Geography 2
Psychology 2*
History and Appreciation of Music*

Third Year (2 courses)

English 3
Geography 3

First Year (4 courses)

Economics 1
Philosophy 1
Politics 1*
Maths 1*

Second Year (4 courses)

Economics 2
Philosophy 2
Politics 2*
French 1*

Third Year (2 courses)

Economics 3
Psychology 3

First Year (4 courses)

Human Kinetics and Ergonomics 1
Psychology 1
History 1*
English 1*

Second Year (4 courses)

Human Kinetics and Ergonomics 2
Psychology 2
Applied Physiology and Anatomy++
Computer Science 1

Third year (2 courses)

Human Kinetics and Ergonomics 3
Psychology 3

* ancillary courses

++ compulsory course for Human Kinetics and Ergonomics 3

B. BACHELOR OF FINE ART DEGREE

First Year (3 courses)

Art History and Visual Culture 1
BFA Studio Practice 1
One other BA course

Second Year (3 courses)

Art History and Visual Culture 2
BFA Studio Practice 2
One other BA course

Third Year (2 courses)

Art History and Visual Culture 3
BFA Studio Practice 3

Fourth Year (2 courses): Art History and Visual Culture 4 and BFA Studio Practice 4.

Practical options in Fine Art Studio Practice are: Graphic Design, Painting, Photographic Arts and Sculpture.

C. BACHELOR OF JOURNALISM DEGREE

First Year (4 courses)

Journalism 1
English 1 and/or English Language & Linguistics 1
Economics 1
Politics 1

Second Year (4 courses)

Journalism 2
English 2 and/or English Language & Linguistics 2
History 1
Sociology 1

Third Year (2 courses)

Journalism 3
English 3 or English Language & Linguistics 3

Fourth Year (1 course): Journalism 4

It must be stressed that these are only examples of a number of possible curricula.

D. BACHELOR OF MUSIC DEGREE

FIRST YEAR: Instrumental Music Studies 1, Music 1, Ethnomusicology 1, One BA course (optional extra: Sound Technology 1).

SECOND YEAR: Instrumental Music Studies 2, Music 2, Ethnomusicology 2 OR Sound Technology 1, One BA course.

THIRD YEAR: Instrumental Music Studies 3; Students choose between Music 3 and Ethnomusicology 3.

FOURTH YEAR: Five papers from a wide variety.

E. BACHELOR OF SOCIAL SCIENCE

To obtain a BSocSc degree you must obtain 10 credits. At least 5 credits (courses), including at least one major subject, must be chosen from the following:

Anthropology	Economics	Industrial Psychology
Industrial & Economic Sociology	Politics	Psychology
Sociology		

An African Language may be taken as the second major subject with a major in Anthropology. Other subjects which may be taken as major subjects for the BSocSc degree: Geography; History; Information Systems; Legal Theory; English Language & Linguistics; Mathematics; Mathematical Statistics; Philosophy; Computer Science; Environmental Science; Management.

The following are possible examples of degree structures:

First Year (4 courses)

Anthropology 1
Sociology 1
Politics 1
Psychology 1

Economics 1
Management 1
Psychology 1
Accounting 1

Second Year (4 courses)

Anthropology 2
Sociology 2
Politics 2
Xhosa 1 (NMT)

Economics 2
Management 2
Organisational Psychology 2
Statistics 1D / TOF

Third Year (2 courses)

Anthropology 3
Sociology 3

Any two of:
Economics 3
Management 3
Industrial Psychology 3

* if you intend majoring in management in a Bachelor of Social Science you need to obtain credit in Accounting 1, Statistics 1D and Theory of Finance (TOF) - therefore a good mathematics mark would be a requirement.

Humanities Extended Studies Programme

This programme offers an alternative route through a Rhodes degree in the humanities faculty. This programme is intended for South African English Second Language speakers who show potential to succeed at university but who might not achieve the entry requirements for a 3 year humanities degree. It is open to students with a matric exemption, not less than 25 Swedish points and at least a D for English as an additional language.

Entering this programme generally means that the degree must be taken over four years instead of three. Students take two mainstream humanities subjects from a limited choice of subjects offered. These two subjects are supported with additional extended studies classes. These classes aim to develop reading skills and conceptual understanding of the subjects, to give students assistance in preparing for tutorials and assignments and to develop subject specific vocabulary. In addition students take general skills classes which aim to provide students with skills they need to cope academically at university. Students also take computer literacy classes and an information literacy course.

After the first year, students can choose any subjects open to humanities students. Extended studies students are usually limited to taking a maximum of 3 credits in one year.

Sample extended studies degree

Year 1: (2 credits plus 2 support credits)	Anthropology 1	Journalism and Media Studies 1
Year 2: (3 credits)	Anthropology 2	Politics 1 Economics 1
Year 3: (3 credits)	Anthropology 3	Politics 2 Psychology 1
Year 4: (2 credits)	Economics 2	Politics 3

CAREER OPPORTUNITIES

A degree in the Humanities will provide career opportunities in many fields. Some of the more obvious careers are:

Administrator, Civil Servant, Clinical or Counselling Psychologist (if postgraduate studies in Psychology are undertaken to at least the Master's level), Company Manager, Development Officer, Economist (if postgraduate studies are undertaken to at least Honours level), Health Service Officer, Housing Officer, Industrial Psychologist, Labour Relations Officer, Local Government, Museum Curator, Performing Artist, Officer in Industry or the Civil Services, School or College Teacher and Careers Adviser, Social Researcher, Sports Scientist, Teacher Psychologist (if one major subject is Psychology and if sufficient other teaching credits are obtained), Trade Unionist.

The career open to you is going to be influenced by both your choice of major subjects within any given degree structure or the type of specialised degree (e.g. B Fine Art) and the extent of your career development through the degree studies.

Anyone intending to enter school teaching as a career is strongly advised to approach the Dean of the Faculty of Education in order to discuss the degree curriculum he or she ought to follow.

Faculty of Law

LAW AT RHODES

The Faculty of Law is one of the oldest Law Faculties in the country and was the first to have a full-time Professor of Law. Successive law graduates have served with distinction in law, commerce and industry, not only in Southern Africa, but also in other countries. At the first year level the Law Faculty offers all students an integrated academic development programme aimed at bridging the gap between school and university. Small group teaching and learning in tutorials assist students in realising their full academic potential. The Faculty offers three degree programmes – the LLB, LLM and PhD degrees. Students who wish to broaden their education are encouraged to do so, and are able to follow a five year programme during which they will obtain two degrees, for example a BA, BCom or BSc, as well as an LLB. For more information on the history of the Faculty, visit our website:

<http://www.ru.ac.za/academic/faculties/law/history>.

Academic Staff

Associate Professor & Dean

J Campbell, BA, LLB(UCT), LLM(Rhodes).

Deputy Dean

LJ Roberts, SC, BA, LLB(Rhodes)

Professor

RB Mqoke, BJuris, LLB(Fort Hare), LLM(Rhodes), LLD(Fort Hare)

Associate Professors

GB Glover, BA, LLB, PhD(Rhodes)

NMI Goolam, BA LLB(UCT), MCL(Malaysia)

LO Juma, LLB(Nairobi), Dip. Law(Kenya), LLM(Pennsylvania), MA(Notre Dame)

Senior Lecturers

GW Barker, BA(Wits), LLB(Natal), LLM(Unibo)

GE Davies, BA, LLB(Rhodes)

SEH Driver, BA, LLB(Rhodes), LLM(Unisa) PGDHE(Rhodes)

L Niesing, LLB (Stell)

CA Renaud, BA (Hons), LLB (Rhodes), LLM(Stell)

EH van Coller, LLB, LLM(UFS), LLM(Utrecht), PGDHE(Rhodes)

Lecturers

AHA Haller-Barker, BSc(Hons), MSc, LLB(Rhodes)

R Krüger, BA(Hons), LLB(Potch), PGDHE(Rhodes), PhD(Rhodes)

HJ Kruuse, BA, LLB, LLM(Rhodes)

S Ramlall, LLB(UKZN), LLM(Unisa)

Junior Lecturer

M Mangezi, BA, LLB, LLM(Rhodes)

Professor Emeritus and Honorary Fellow of the University

AJ Kerr, SC, BA(Unisa), LLB(Wits), PhD(Natal), LLD(hc) (Rhodes)

Honorary Professors

TD Burrell, Blur, LLB(Unisa), PhD(Wits)

CM Plasket, BA, LLB, LLM(Natal), PhD(Rhodes)

WH Trengove, SC, BCom, LLB(Pret)

Director, Legal Aid Clinic, and Associate Professor

JW Bodenstien BA(Stell), LLB, LLM(UKZN)

Deputy Director and Director, Queenstown Rural Centre

P Pringle, BA(Rhodes), LLB(Natal), LLM(Wits), Attorney at Law

Librarian

J Otto, BA HDip Lib, PGCE(Rhodes)

THE FACULTY OF LAW

The Rhodes Law Faculty has a sound reputation for excellence. Our researchers are well-known and respected, and three staff members have through the years been awarded the Vice-Chancellor's Research Award.

The Faculty's goal is to produce high-quality graduates who are capable of becoming leaders both in the practice of law and in other areas, such as commerce, industry, politics and academia. Our aim is to inculcate a sense of justice, fairness and equity in all our students, irrespective of the courses they follow, and to provide sound teaching and research so that our graduates will be responsible, productive and ethical practitioners who are capable of being instruments for social change.

We have a reputation for producing graduates who show initiative, are good communicators and who have a sound knowledge of the law, an excellent grasp of legal principles, and some exposure to practical aspects during their education. Our graduates are known to have good social skills and are sought after among the profession. Almost all those graduates who wish to seek employment are successful.

In all, the Rhodes Law Faculty offers a unique educational experience. Because of its small size, and its extremely favourable staff/student ratio, students receive personal attention from our staff. We are proud of the service we offer to our students and will continue to encourage academic excellence.

Career training enhancement at Rhodes

Law students at Rhodes University are provided with numerous opportunities to acquaint themselves with aspects of the practice of Law. These training opportunities have proved to be invaluable once our students embark on demanding careers in society. The following are a sample of learning opportunities in this area:

- The Legal Aid Clinic provides students with the opportunity of giving legal advice under the supervision of qualified lawyers.
- Moot courts and mock trials give students the opportunity to run cases in circumstances similar to real courts.
- Our students are assisted in competing in various moot and mock trial competitions held in different parts of Africa.
- Students who qualify have the opportunity to participate in international student exchange programmes.
- Judges, practitioners, subject experts and visiting professors are involved in Faculty activities on a regular basis and expose our students to a wealth of professional and academic experience.

BACHELOR OF LAWS (LLB)

The LLB degree is the minimum academic qualification for practising law in South Africa. At Rhodes, the LLB degree is offered as a four year programme, a two year programme, or a three year programme.

Only in exceptional circumstances will students who enter university for the first time register in the Faculty of Law at Rhodes. In their first year, all prospective LLB students register for a general degree in another faculty (Humanities, Science or Commerce) where they do some non-law courses as well as two law courses. Students may select courses from a wide range of subjects and a variety of permutations exists. Only in their second year, after obtaining sufficient information to make a proper decision, do students decide which route to follow. It also enables students who discover in their first year that they are not suited to a career in law to change their study direction without forfeiting a year of study.

The Faculty's resources are limited and students' academic results play an important role when applications for admission into the LLB are considered.

1. A five year combined Law and Humanities OR Law and Commerce OR Law and Science LLB stream

Students enter this stream with the intention of



following a programme in Law and Humanities OR Law and Commerce OR Law and Science, leading to a BA/ BSocSci or BCom/BBusSc or BSc and thereafter a two-year LLB. The objective of a broad-based education is achieved in this stream by including courses which ensure that students have a thorough grasp of at least one discipline outside Law. Students register for a BA, BSocSci, BCom, BBusSci or BSc in their first year of study and continue with that degree with Legal Theory as a major subject.

Having obtained the first degree, students then register for the LLB, to be completed over two years. To do so, one must have obtained sufficient law credits in the first degree, which is usually the case if one has majored in Legal Theory.

Normally candidates who obtained at least 60% in their Legal Theory major will be admitted, as will candidates from other universities who obtained an average of at least 60% in their previous year of study. Where a candidate has not met these requirements, the Dean of Law has the discretion to admit that person, on good cause shown and subject to availability of Faculty resources. Preference will be given to those candidates who obtained their first degree at Rhodes University.

2. A four year LLB stream

In their first year of university study students will be required to register in any one of the Faculties of Humanities, Science and Commerce, according to their subject choices. After their first year of study, those who meet the academic criteria may choose between following a five year (e.g. BA or BCom LLB) curriculum, or a four year LLB curriculum. Those who do not meet the academic criteria must follow the five year combined route.

Candidates who do not have a degree may be admitted to the second year of study for the LLB degree, provided that they have passed both the law courses offered in their first year of study (Foundations of Law and Introduction to Law) with an average of 60% as well as having obtained an overall average of 60% for three non-law courses studied in that year. (Students who do not meet these criteria must follow the five year route.) Candidates who have completed more than one year of study must not only meet the first year criteria, but must also have obtained an overall coverage of 60% for the subjects registered in the previous year of study.

3. A three year LLB for graduate students

Students enter this stream after having completed a Bachelor's degree without law subjects, or with insufficient law credits. They may be admitted to the second year of study for the LLB degree, provided that they obtained 60% for their major subjects. Where a candidate has not met this requirement, the Dean of Law has the discretion to admit that person, on good cause shown and subject to availability of Faculty resources.

EXAMPLES OF SOME CURRICULA

THE LLB CURRICULUM: 4 YEARS

1ST YEAR	2ND YEAR	PENULTIMATE YEAR	FINAL YEAR
Three non-law courses	One non-law course at second year level		
First Semester Foundations of Law	First Semester Constitutional Law A; Law of Contract A; Law of Persons; Law of Property A; Legal Interpretation;	First Semester Civil Procedure A; Company Law A; Criminal Law A; Criminal Procedure A; Law of Delict A; Legal Skills; Public International Law	First Semester Administrative Law A; Civil Procedure B; Criminal Procedure B; Individual Labour Law; Law of Sale and Lease; 2 Electives from the first semester list

Second Semester	Second Semester	Second Semester	Second Semester
Introduction to Law	Constitutional Law B; Law of Contract B; Customary Law; Law of Life Partnerships; Law of Property B;	Company Law B; Criminal Law B; Jurisprudence; Law of Delict B; Law of Evidence A; Law of Partnerships and Trusts; Legal Practice	Administrative Law B; Law of Evidence B; Law of Insolvency and Winding up of Companies and Close Corporations; Law of Agency, Insurance and Credit Agreements; Law of Succession and Administration of Estates; 2 Electives from the second semester list

BA, BCOM, BSC CURRICULUM: (3 YEARS), TO BE FOLLOWED BY A 2 YEAR LLB

This curriculum exempts one from the first two years of the LLB degree. The LLB curriculum following this degree will therefore be the same as that for the Penultimate and Final years of the LLB curriculum.

1ST YEAR	2ND YEAR	3RD YEAR
Any three non-law courses	One non-law course at second year level; Two non-law courses at first year level or second year level.	One non-law course at third year level
Legal Theory 1 First Semester: Foundations of Law	Legal Theory 2 First Semester: Constitutional Law A; Legal Interpretation	Legal Theory 3 First Semester: Law of Contract A; Law of Persons; Law of Property A
Second Semester: Introduction to Law	Second Semester: Constitutional Law B; Customary Law	Second Semester: Law of Contract B; Law of Life Partnerships; Law of Property B



**THE LLB CURRICULUM FOLLOWING A BA, BCOM OR BSC (LAW CURRICULUM):
2 Years**

PENULTIMATE YEAR	FINAL YEAR
First Semester Civil Procedure A; Company Law A; Criminal Law A; Criminal Procedure A; Law of Delict A; Legal Skills; Public International Law	First Semester Administrative Law A; Civil Procedure B; Criminal Procedure B; Individual Labour Law; Law of Sale and Lease; 2 Electives from the first semester list
Second Semester Company Law B; Criminal Law B; Jurisprudence; Law of Delict B; Law of Evidence A; Law of Partnerships and Trusts; Legal Practice	Second Semester Administrative Law B Law of Agency, Insurance and Credit Agreements; Law of Evidence B; Law of Insolvency and Winding up of Companies and Close Corporations; Law of Succession and Administration of Estates; 2 Electives from the second semester list

**THE LLB CURRICULUM FOLLOWING ANY DEGREE WITH NO LAW COURSES:
3 Years**

This route is for students who have a degree but either have no law credits at all, or insufficient law credits to qualify for the two year option.

1ST YEAR	PENULTIMATE YEAR	FINAL YEAR
First Semester Foundations of Law; Constitutional Law A; Law of Contract A; Law of Persons; Law of Property A; Legal Interpretation	First Semester Civil Procedure A; Company Law A; Criminal Law A; Criminal Procedure A; Law of Delict A; Legal Skills; Public International Law	First Semester Administrative Law A; Civil Procedure B; Criminal Procedure B; Individual Labour Law; Law of Sale and Lease; 2 Electives from the first semester list
Second Semester Introduction to Law; Constitutional Law B; Customary Law; Law of Contract B; Law of Life Partnerships; Law of Property B	Second Semester Company Law B; Criminal Law B; Jurisprudence; Law of Delict B; Law of Evidence A; Law of Partnerships and Trusts; Legal Practice	Second Semester Administrative Law B; Law of Agency, Insurance and Credit Agreements; Law of Evidence B; Law of Insolvency and Winding up of Companies and Close Corporations; Law of Succession and Administration of Estates; 2 Electives from the first Semester list

Details of the degree structure and requirements for the LLB degree can be found in the Faculty of Law section of the University Calendar, and are obtainable on request.

LIST OF ELECTIVES WHICH COULD BE TAKEN IN THE FINAL YEAR OF STUDY:

First Semester	Second Semester
Copyright and Trade Marks International Trade Law Introduction to Conveyancing Law of Banking and Payments Law of Unjustified Enrichment Legal Accounting Negotiation and Mediation (limited registration) Tax and Estate Planning	Arbitration (limited registration) Collective Labour Law Competition Law Constitutional Litigation Environmental Law Ethics and Professional Responsibility isiXhosa Law of Patents and Designs

In both the first and second semesters, a research paper may be completed for one semester credit. All electives will not necessarily be offered every year. The availability of options will depend upon teaching arrangements in the Faculty of Law. For the same reason electives may be taught in different semesters.

CONTENT OF COURSES

Administrative Law A (one semester credit; one two-hour paper (70%), class work (30%), June examination)

Background and introduction to administrative law; the sources of administrative law and of administrative power; the constitutional right to just administrative action; introduction and overview of the Promotion of Administrative Justice Act (PAJA); administrative action in terms of PAJA; the exercise of powers and functions by administrators and the right to reasons for administrative action.

Administrative Law B (one semester credit; one two-hour paper (70%), class work (30%), November examination)

Justiciability in the constitutional state and locus standi to challenge administrative action; judicial review of administrative action; the grounds of review and the rights to lawful, procedurally fair and reasonable administrative action, procedural issues and remedies.

Arbitration (one semester credit: one two-hour paper (50%), class work (20%), journal (30%), November examination)

The law relating to arbitration and the development of practical skills in presenting and adjudicating arbitration cases.

Civil Procedure A (one two-hour paper (70%), class work (30%), June examination)

Courts with civil jurisdiction; Locus Standi; Action Proceedings from letter of demand to trial in both the High Court and the Magistrates' Court including commonly utilized interlocutory applications such as Summary Judgment, Exceptions and Applications to Strike Out.

Civil Procedure B (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Applications in both the High Court and the Magistrates' Court; Specific Applications, for example, Interdicts, Mandamenten van Spolie, Arrests tamquam suspectus de fuga, Anton Piller Orders, Matrimonial Matters (Rule 43), Curatorship, Sequestration, Voluntary Surrender, Liquidation of Companies, Judicial Management; Provisional Sentence; Appeals, Reviews and Rescission of Judgment; Costs; Enforcement of Judgments and Administration Orders.

Collective Labour Law (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Sources of Labour Law; Framework of the Labour Relations Act 55 of 1995; Organizational Rights; Collective Bargaining Structures; Collective Agreements; Agency Shop Agreements; Closed Shop Agreements; Worker Participation; and Industrial Action.

Commercial Law 1 consists of two one-credit courses, COL 101 and COL 102.

COL 101 (One three-hour paper (70%), class work (30%), June examination)

Introduction to the nature of law; interpretation of statutes; general principles of the law of contract; the law of agency.

COL 102 (One three-hour paper (70%), class work (30%), November examination)

Business structures; financial institutions; labour law. A credit in or a valid DP certificate for COL 101 is required for entry into COL 102.

Commercial Law 2 consists of two one-credit courses, COL201 and COL202.

COL201 (Two one-and-a-half hour papers (70%), class work (30%), June examination)

Paper 1: Sale; Lease; Carriage of Goods and Persons.

Paper 2: Administration of Estates; Insolvency and winding-up of companies and close corporations.

COL202 (Two one-and-a-half hour papers (70%), class work (30%), November examination)

Paper 1: Selected topics in company law; Forms of payment.

Paper 2: Property transactions; The law of security; Insurance; Marketing; Introduction to arbitration.

Company Law A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The nature, formation, dissolution and functional aspects of Companies and Close Corporations from a legislative, case law and practical perspective.

Company Law B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

An introduction to competition law; the law relating to mergers and acquisitions of companies; securities regulations, initial public offerings and private placements.

Competition Law (one semester credit: one two-hour paper (70%), class work (30%), November examination)

The objects of, and rationale for, competition law; a brief history of the regulation of competition; restrictive horizontal practices: legislation and cases; restrictive vertical practices: legislation and cases; the abuse of dominance: legislation and cases; institutions, procedures and remedies.

Constitutional Law A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Sources of constitutional law, key constitutional concepts in context of major constitutional models and a detailed analysis of the structures of government created by the Constitution of the Republic of South Africa, 1996.

Constitutional Law B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

The protection of human rights in a constitutional state, judicially and extra-judicially with an emphasis on the former; application and interpretation of the Bill of Rights; consideration of selected rights protected in the Bill of Rights (chapter 2 of the Constitution of the Republic of South Africa, 1996).

Constitutional Litigation (one semester credit: one two-hour paper (60%), class work (40%), November examination)

Litigating under the Constitution, the Rules of the Constitutional Court; constitutional remedies; consideration of selected constitutional law topics at advanced level.

Criminal Law A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Introductory concepts and definitions; fundamental values, functions and objectives underlying criminal justice; general principles of criminal liability including: conduct, unlawfulness, causation, capacity and fault; defences; forms of participation in criminal activities; liability for inchoate crimes.

Criminal Law B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Selected common-law and statutory crimes.

Criminal Procedure A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Structure of the courts; jurisdiction; search procedure; arrest; summonses; written notice; bail; indictments and charge sheets; essentials of a valid charge; defects etc. cured by evidence; amendments of charges; pleas of guilty and not guilty; conduct of criminal trials; verdict and sentence; automatic review and right of appeal.

Criminal Procedure B (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Who prosecutes; private prosecutions; stopping and withdrawal of prosecutions; prosecutions to be brought within reasonable time; search and seizure; legal representation; disclosure by prosecution; indictments in High Court; exemptions, exceptions, provisos; duplication of convictions; further particulars; autrefois convict and autrefois acquit; plea and sentence agreements; prosecution of corporations; appeals; taking of evidence under s 205 of Criminal Procedure Act 51 of 1977; inquests; extradition; asset forfeiture.

Customary Law (one semester credit: one two-hour paper (70%), class work (30%), November examination)

The nature and ascertainment of customary law; customary law and the new constitution; the conflict of laws; principles of the law of persons, property, succession and obligations.

Environmental Law (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Scope and definition of environmental law; legal norms and standards underpinning environmental management; sources and history; overview of international environmental law; the Constitution and environmental legislation; administration and enforcement; environmental management tools; selected topics: natural resources and conservation management.

Ethics and Professional Responsibility (one semester credit: one two-hour paper (60%), class work (40%), November examination)

The ethics which govern the practice of law and issues relating to professional negligence.

Foundations of Law (one semester credit: one three-hour paper (70%), class work (30%), June examination)

Part A: Roman law; sources of law (common law, legislation, judicial precedent, custom, indigenous law, and the Constitution)

Part B: The structure of the courts; dispute resolution methods; the legal profession; elementary outline of criminal procedure; elementary outline of civil procedure.

Individual Labour Law (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The relationship between individual employees and their employers; discipline; dismissal; discrimination in employment; employment equity and basic conditions of employment.

International Trade Law (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The origin and evolution of international trade; general concepts and principles; the United Nations Convention on the International Sale of Goods; the Carriage of Goods by Sea Act, and the common law relating to charterparties; international commercial arbitration; an introduction to the World Trade Organization.

Introduction to Conveyancing (one semester credit: one two-hour paper (70%), class work (30%), June examination)

An introduction to the practice and procedure of the Deeds Registries Office.

Introduction to Law (one semester credit: one three-hour paper (70%), class work (30%), November examination)

Part A: Nature of law; law and justice; rights and duties; introduction to the legal systems of the world.

Part B: Divisions of law; criminal law; contract; delict.

isiXhosa: (one semester credit: assessment of practical work (100%) (Students will not be eligible for supplementary or aegrotat examinations))

A discipline-specific introduction to isiXhosa language and culture. Communication skills developed and cultural knowledge imparted essential in lawyer-client interactions.

Jurisprudence (one semester credit: one two-hour paper (60%), class work (40%), November examination)

An overview of the major jurisprudential themes; an overview of the major theories of legal reasoning.

Law of Agency, Insurance and Credit Agreements (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Agency: Agency power and authority; the rights and duties of principals and agents; the relationships between principals and agents and third parties.

Insurance: sources; essential elements; insurable interest; duty of disclosure; warranties; risk; loss; subrogation; over-insurance; under-insurance.

Credit Agreements: a review of the National Credit Act.

Law of Banking and Payments (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The law of negotiable instruments and cheques; the law relating to credit cards and electronic financial transactions; the law of documentary credits; exchange control regulations; an introduction to the Financial Intelligence Centre Act of 2001; measures for the detection and prevention of money laundering; an overview of banking regulation and the role of the Reserve Bank.

Law of Contract A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The historical antecedents of South African contract law; theories of contracts; the essentials of a valid contract, including capacity, consensus (offer, acceptance, mistake, misrepresentation, duress, undue influence), legality (statutory, common law, the influence of the Constitution), possibility of performance and formalities.

Law of Contract B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Types of contractual terms, interpretation of contracts; rectification; alteration of contractual obligations; cession; suretyship; performance; breach; remedies.

Law of Copyright and Trade Marks (one semester credit: one two-hour paper, (70%), class work (30%), June examination)

Registration of trade marks; transactions involving trade marks; infringement of trade marks; domain names and the internet; requirements for the subsistence of copyright; transactions involving copyright; infringement of copyright; copyright and the internet; and counterfeit goods.

Law of Delict A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The nature and basis of delictual liability and an introduction to the *actio iniuriarum*, *actio legis Aquiliae* and action for pain and suffering; impact of constitutional values and provisions on the Law of Delict; elements of a delict and the underlying concepts.

Law of Delict B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Specific forms of *iniuria*; specific forms of *damnum iniuria datum*; forms of liability without fault.

Law of Evidence A (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Introductory terminology; the course of the trial; burden and standard of proof; judicial notice; opinion evidence; documentary; real and machine-generated evidence.

Law of Evidence B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Informal admissions; confessions; formal admissions; private privilege; State privilege; hearsay; previous consistent statements; similar fact evidence; entrapment; unconstitutionally obtained evidence.

Law of Insolvency and Winding up of Companies and Close Corporations (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Voluntary surrender; compulsory sequestration; trustees; meeting of creditors and proof of claims; vesting; effects of sequestration; the solvent spouse; impeachable transactions; composition; rehabilitation; judicial management, winding-up of companies and close corporations.

Law of Life Partnerships (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Evolution of the traditional concept of family and marriage; influence of the Constitution and international law; legal status of religious marriages; development of the law with respect to same-sex life partnerships and domestic partnerships; engagement; legal requirements for a valid marriage; void and voidable marriages; consequences of marriage in and out of community of property; antenuptial contracts; calculation of accrual; divorce and maintenance; changing trends in family law evident in recent Constitutional Court decisions.

Law of Partnerships and Trusts (one semester credit: one two-hour paper (70%), class work (30%), November examination)

The nature, formation, dissolution and functional aspects of sole proprietorships, cooperatives, partnerships and trusts from a legislative, case law and practical perspective.

Law of Patents and Designs (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Nature and contents of patents; patentable subject matter and exclusions; patent ownership and exploitation; patent application procedure; infringement of patents; scope of design monopoly; design ownership; exploitation and procedure; and infringements of designs.

Law of Persons (one semester credit: one two-hour paper (70%), class work (30%), June examination)

General concept of legal personality: how it begins and ends and the rights and duties associated with it. Legal principles that affect legal status: domicile, age, mental illness, prodigality, change of sex. Protection of children in terms of the Children's Act 38 of 2005.

Law of Property A (one semester credit: one two-hour paper (70%), class work (30%), June examination)

General concepts; classification of things; rights; ownership.

Law of Property B (one semester credit: one two-hour paper (70%), class work (30%), November examination)

Possession; restrictive conditions; servitudes; constitutional property law; real security.

Law of Sale and Lease (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Sale: the essential elements; passing of ownership; risk and benefit; conditional sales; residual obligations of the seller and remedies of the buyer; residual obligations of the buyer; sales affected by statute.

Lease: essential elements; types of leases; the rights and duties of lessors and lessees; the impact of the Constitution and various statutory enactments on leases; renewal; termination; lessee's rights in regard to improvements.

Law of Succession and Administration of Estates (one semester credit: one two-hour paper (70%), class work (30%), November examination)

The scope succession; intestate succession; executing wills; the contents of wills; collation; succession by contract; and administration of deceased estates.

Law of Tax and Estate Planning (one semester credit: one two-hour paper (70%), class work (30%), June examination)

The provisions of the Income Tax Act 58 of 1962; tax strategy; aspects of tax and estate planning.

Law of Unjustified Enrichment (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Historical developments and the debate about a general action; the general requirements of enrichment liability; enrichment by transfer (the *condictiones*); enrichment by outlays (*negotiorum gestio*); actions for improvements; enrichment *liens*); enrichment by encroachment; defences.

Legal Accounting (one semester credit: one two-hour paper, (70%), class work (30%), June examination)

The general principles of accounting with special emphasis on Trust Accounts.

Legal Interpretation (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Statutory Interpretation: Nature and classification of enacted law in South Africa; overview of theories of statutory interpretation; interpretive methods; impact of the Constitution on statutory interpretation.

Precedent and Adjudication: Legal method and legal reasoning; analysis of court judgments (with emphasis on *ratio decidendi* and *obiter dictum*).

Legal Practice (one semester credit: assessment of practical work (100%), first or second semester) (Students will not be eligible for supplementary or aegrotat examinations.)

File and case management, consultation, interviewing, communication, and drafting skills. The emphasis is on the practical application of the law through prescribed work at the Legal Aid Clinic, practical exercises and assignments, the aim of which is to draw together and apply the legal knowledge acquired in academic studies.

Legal Skills (one semester credit: assessment of practical work (100%), first semester) (Students will not be eligible for supplementary or aegrotat examinations.)

Numeracy skills; research skills, including computer research; legal reasoning and structure of argument; presentation of a proposal or a case, both orally and in writing; problem solving and critical thinking.

Negotiation and Mediation (one semester credit: one one-hour paper (40%), practical examination (30%), journal (30%), June examination)

Negotiation and Mediation theory and the development of practical skills.

Public International Law (one semester credit: one two-hour paper (70%), class work (30%), June examination)

Sources; international and municipal law; international personality; territory; jurisdiction; law of the sea; state responsibility; human rights; treaties; use of force; international institutions.

Research Paper (one semester credit: assessed at the end of the year)

(Students will not be eligible for supplementary or aegrotat examinations)

LLB candidates are permitted to complete a research essay in a topic of their choice, subject to the availability of a suitable supervisor and the approval of the Dean, as one of their elective credits. Students will be asked to indicate their intention to undertake this elective in the fourth term of their penultimate year of study. The detailed essay on the approved topic must be submitted by the end of the third week of the fourth term of the final year.

Students who have participated in the All Africa Moot Competition, or any other international moot competition, are permitted to present the work done for this competition as a research paper, provided that the work done is presented in coherent written form. A candidate may obtain only one credit for participation

in a moot competition, irrespective of the number of times a candidate participates.

A candidate may not register for more than one research paper elective, except where the candidate participates in a moot competition, and chooses to write this up as a research paper in addition to a standard research essay.

ALASTAIR KERR LAW LIBRARY

The law library is centrally situated on the ground floor of the main building of the Faculty of Law. The library collection comprises an extensive collection of South African legal publications, as well as Anglo-American, Canadian and other foreign legal publications and journals, covering all aspects of international and comparative law.

A modern thirty station computer laboratory provides access to major electronic publications and on-line access to the Internet and E-mail, legal databases like Lexis Nexis, electronic catalogues and word processing programs. Laser printing and photocopier facilities are available in the library.

The library is equipped with numerous study cubicles, where students are encouraged to spend as much time as necessary. An extension, the PPS Wing, was added in 1999, with the specific goal to provide an attractive, comfortable, quiet study area.

The library offers non-credit research courses and workshops to develop and improve legal research skills to enable each student to become an effective and efficient legal researcher.

LEGAL AID CLINIC

The Legal Aid Clinic provides free legal services to indigent people and hands-on practical experience and training to law students. It operates as a fully-fledged attorney's office.

Apart from free legal services to poor people, the Clinic currently conducts two human rights projects:

- An Advice Office Project, which provides training and back-up legal services to fifty paralegal advice offices throughout the Eastern Cape Province.
- The Queenstown Rural Legal Centre, a branch office of the Legal Aid Clinic.

The Legal Practice course is closely linked to students' work at the Legal Aid Clinic, and focuses on skills such as consultation and communication, file and case management, drafting of letters, pleadings and other court notices, and trial advocacy.

Each year two certificates of attendance are awarded to law students on the completion of their Legal Aid Clinic work in final year:

- Legal Adviser (with or without merit)
- Legal Adviser

A pro forma letter confirming attendance is given to all students who work at the Legal Aid Clinic, whether for one semester or more.

There is also a financial award to the most dedicated student at the Legal Aid Clinic.

**PRACTISING LAW IN SOUTH AFRICA AND ABROAD
SOUTH AFRICA**

The Qualifications of Legal Practitioners Amendment Act of 1997 provides that the LLB degree will be the universal legal qualification for admission and enrolment as an advocate or attorney. The Act of Parliament regulating admission to practise law is likely to be replaced in the next few years, which might change the requirements.

Advocate

Normally those who wish to enter private practice as advocates will be required to become members of a Bar Association by undergoing a period of training in pupillage with a practising member of the Bar and by sitting an admission examination.

Attorney

Before admission as an attorney, an LLB graduate must serve as a candidate attorney with a practising attorney for two years. Attendance at a practical legal training course reduces the period required to serve articles to one year. Thereafter candidates write a professional examination.

Language Proficiency

There are no statutory language requirements for the practice of law. Language proficiency is, however, very important for the study and practice of law. Prospective lawyers are encouraged to include courses in the national languages (particularly English) in their curricula.

ABROAD

A South African LLB is not sufficient for practising abroad, but some credits are recognised elsewhere. Each country has its own rules. See, for example, the following websites:

United States

The American Bar Association: <http://www.abanet.org>

United Kingdom

Law Society: <http://www.lawsociety.org.uk/home.law>

The Bar Council: <http://www.barcouncil.org.uk>

General Information

For general information about studying law see <http://www.ru.ac.za/law>
 See also the law student's Survival Guide at <http://www.ru.ac.za/law/academic/lawsurvivalguide>

Faculty of Pharmacy



PHARMACY at RHODES

One Degree – Many Careers

All first year courses in the four year Bachelor of Pharmacy curriculum are offered by departments in the University's Faculty of Science, and later courses (2nd to 4th year) within the Faculty of Pharmacy itself. The curriculum has been designed in accordance with the requirements of the South African Pharmacy Council. Areas of specialization in the Faculty are reflected in the elective courses offered in the final year of undergraduate study. Further specialization occurs at the postgraduate level, where studies leading to an MSc, MPharm, PharmD or PhD degrees can be pursued.

The Faculty has access to good lecture facilities, and the laboratories are well equipped with modern instrumentation available for both undergraduate and postgraduate use.

The Faculty of Pharmacy at Rhodes University is dedicated to achieving excellence in an environment of interdisciplinary co-operation and mutual respect consistent with the mission of the university and with the mission of the Pharmacy profession.

The mission of the Faculty is to promote pharmaceutical care through education, research, scholarship, creative endeavour and service.

The priorities of the Faculty of Pharmacy are to:

- Prepare its students for entry into the practice of pharmacy as informed, caring and ethical citizens and professionals.
- Prepare pharmaceutical scholars and researchers through professional, undergraduate, graduate and postdoctoral programmes of distinction.
- Conduct postgraduate education to advance the knowledge, expertise and competence of pharmacists and pharmaceutical scientists.
- Analyze and apply knowledge about pharmaceutical products and services, and their use in society through basic and applied research



and to advance, communicate and preserve that knowledge.

- Promote, facilitate and conduct education programmes to extend the knowledge of drugs and the rational and cost-effective use of medicines.



The objectives of the Faculty are to be accomplished by:

- Formal training in both undergraduate and postgraduate programmes and by offering 'catch-up' and 'keep-up' programmes for qualified pharmacists, nurses and doctors.
- Undertaking and publishing research of high quality.
- Community engagement locally and nationally.
- Local and national professional involvement.

WHAT IS PHARMACY?

Pharmacy comprises a number of subjects concerned with the production, custody, distribution and use of medicines. As a profession, Pharmacy provides an essential component of the health services of the nation and involves a multidisciplinary degree which forms a unique link between the broad fields of basic science and the Pharmaceutical Sciences. Pharmacy is the channel through which the advances of modern science and technology provide the agents needed for the prevention, diagnosis and treatment of disease.

CAREER OPPORTUNITIES

The work of a registered pharmacist may be performed at the manufacturing, wholesale and retail distributive levels, or in hospitals and research institutes. The Bachelor of Pharmacy degree offered at Rhodes University gives access to an internship and professional competency evaluation. One year internships can be completed in a community, hospital or industrial setting. In addition, a two year academic internship is permitted. In this case, an internship is deemed to be have been completed on successful completion of a MSc degree. Internships undertaken in academic or industrial settings require 400 hours to be completed in community or hospital settings. Completion of these requirements together with the completion of a one year period of community service as a pharmacist in the public sector, allows you to register with the South African Pharmacy Council. You are then qualified to practice as a pharmacist within the Republic of South Africa.



ACHIEVEMENTS

Many Rhodes University pharmacy graduates have made significant impacts on pharmacy in South Africa by assuming leadership roles in the Pharmaceutical Society of South Africa, the Academy of Pharmaceutical Sciences and the South African Association of Hospital and Institutional Pharmacists, amongst others. Several graduates have also become leaders in the pharmaceutical industry whilst several members of our Faculty have made significant contributions to Health Policy development in this country. Feedback from Rhodes University pharmacy graduates indicates that the Faculty's Bachelor of Pharmacy curriculum complies with international standards. This has been repeatedly confirmed by the successful registration of our BPharm graduates in foreign countries such as the United Kingdom, United States of America, Canada and Australia where success in those entrance examinations has been readily achieved. This success is a clear indication that the sound educational background obtained at Rhodes University serves as a springboard to foreign registration.

CURRICULUM

The Bachelor of Pharmacy curriculum is currently under revision and it is likely that a new curriculum will be introduced in 2011. In this event, entrance requirements and course descriptions may change. The Bachelor of Pharmacy degree at Rhodes University is a 4 year programme. The curriculum for this degree is laid down by the South African Pharmacy Council and all students must pass all courses of this prescribed curriculum to be awarded the degree in Pharmacy. Whilst the general curriculum is prescribed, each of the universities offering pharmacy has its own areas of particular emphasis, thus making transfers between different Schools or Faculties of Pharmacy in South Africa difficult. Students start the professional phase of their training in the second year of study. In the final year students are required to select, from several options, two 'elective courses', or in some cases may undertake a small research project in partial fulfillment of the requirements for the Bachelor of Pharmacy degree.

The specific subjects for each year of the Bachelor of Pharmacy degree and a description of the subjects are listed below:

BPharm 1	BPharm 2	BPharm 3	BPharm 4
Chemistry	Pharmaceutics 2	Pharmaceutics 3	Pharmaceutics 4
Mathematics	Anatomy and Physiology	Pharmaceutical Chemistry 3	Pharmaceutical Chemistry 4
Statistics	Pharmacy Administration and Practice 2	Pharmacy Administration and Practice 3	Pharmacy Administration and Practice 4
Physics	Pharmaceutical Chemistry 2	Pharmacology 3	Pharmacology 4
Computer Science	Pharmaceutical Biochemistry		Elective/Project **
Biology			
Introduction to Pharmacy			

The specific subjects for each year of the Bachelor of Pharmacy degree and a description of the subjects are listed below:

Elective courses may include topics such as Drug Regulation, Drug Information, Nutrition, Pharmaceutical Research Techniques, Bioavailability, Dermatopharmacy, Pharmaceutical Care, Counselling, Managed Care Pharmacy and Paediatric Pharmacy.

Anatomy and Physiology: A study of the functional anatomy and physiology of humans.

Pharmaceutical Biochemistry: A study of the important molecules found in living organisms.

Pharmaceutics: A three year course covering basic pharmaceutical principles and their application to the formulation, production and assessment of medicinal products, microbiology and sterility.

Pharmaceutical Chemistry: A three year course covering the study of the purity and chemical properties of various materials and formulations used in the practice of pharmacy.

Pharmacy Administration and Practice: A three year programme, which examines management,

legal and psychosocial principles and their application in providing safe and effective drug use by pharmacists and patients.

Pharmacology: A two year study of the interactions between medicaments and cells or invaders of the human body; disease states and medicinal therapy used to relieve these; the toxic effects of household agents, medicines and street drugs.

ENTRY REQUIREMENTS

1. NEW SOUTH AFRICAN NATIONAL SENIOR CERTIFICATE

The minimum requirements per degree for admission to pursue studies in Pharmacy at Rhodes University are set out below. Note (a) the differences in the achievement levels that are needed for Mathematical Literacy, (b) the need for Life or Physical Science subjects for a degree in Pharmacy and (c) the point levels that are required.

The requirements are English (Home Language or Additional Language) and another language both at rating 4 or above and Mathematics at rating 4 or above. Furthermore the candidate must have Life Sciences and Physical Sciences both at rating 4 or above, and another designated subject.

Candidates must have over 40 points to be admitted and candidates with a rating of between 30 and 39 points may be admitted at the Dean's discretion.

2. OLD SOUTH AFRICAN NATIONAL SENIOR CERTIFICATE & FOREIGN QUALIFICATIONS

To enter the Bachelor of Pharmacy programme an applicant must have passed the Matriculation Examination of the Joint Matriculation Board, or obtained an exemption certificate from the Board. Further, the applicant must normally have obtained at least a D symbol in Mathematics on the Higher Grade and a D symbol in Physical Science and Biology on the Higher Grade. Due to the Faculty's insistence upon optimal access to its limited facilities, students wishing to enter their first professional year (second year of studying) will be selected on the basis of their 1st year results.



RUPSA

In spite of a rather demanding workload, pharmacy students are socially active, and have their own society: Rhodes University Pharmacy Students Association. Although membership of RUPSA is open to all Rhodes students it is overwhelmingly a (voluntary) group of Pharmacy students, and is run by them. Although there are of course simple recreational functions organized by RUPSA, the society has a serious and important role in preparing its members for entry into various aspects of the profession. A member of the Faculty's academic staff serves permanently on RUPSA's committee, to act as an advisor and to assist, occasionally, in co-ordinating the Society's activities with those of the Faculty. RUPSA is affiliated to the South African Pharmacy Students Federation (SAPSF), and through this National body to IPSF: International Pharmacy Students Association. These links with the national and international community of pharmacy students promote an awareness of the global scale and significance of the profession.



ACADEMIC STAFF

The Faculty of Pharmacy at Rhodes University boasts a number of highly qualified Academics who are actively involved in research and have a high profile both Nationally and Internationally.

Dean of the Faculty and Head of Pharmacy

RB Walker, BPharm, PhD(Rhodes), MPS(SA)

Deputy Dean

C Oltmann, BSc(Med) (Hons) (Wits), Msc, BPharm, PGDHET, PhD(Rhodes), MPS(SA)

Professor of Pharmaceutics

RB Walker, BPharm, PhD(Rhodes), MPS(MPS)

Professor of Pharmacology

To be appointed

Professor of Pharmaceutical Chemistry

To be appointed

Associate Professor, Pharmacy Administration and Practice

SC Srinivas, BPharm, MPharm(Bangalore), PGDHE(Rhodes), PhD(RGUHS)

Associate Professor, Pharmaceutics

R Dowse, BPharm, PhD(Rhodes), MPS(SA)

Associate Professor, Pharmacology

MR Jobson, MBChB(UCT), MpraxMed (MEDUNSA), MFGP (SA), HDipEdAd(Wits)

Senior Lecturer, Pharmacology

MJ Naidoo, BS(Hons)(UDW), MSc, BPharm(Rhodes)

Senior Lecturer, Pharmaceutical Chemistry

DR Beukes, BSc(Hons), PhD(Rhodes)

Senior Lecturer, Pharmacy Administration and Practice

C Oltmann, BSc(Med)(Hons)(Witwatersrand), MSc, BPharm (Rhodes), PGDHET (Rhodes), MPS(SA)

CONTACT DETAILS

To find out more about Pharmacy as a career, visit the Faculty of Pharmacy web page located on the Rhodes website at <http://www.ru.ac.za> or contact the Dean or the Deputy Dean of Pharmacy at the e-mail address below. Faculty of Pharmacy Rhodes University, PO Box 94, Grahamstown, 6140, e-mail: Dean.Pharmacy@ru.ac.za

Lecturer, Pharmacy Administration and Practice

WM Wrench, BPharm (Rhodes), MPS(SA)

Lecturer, Pharmacy Administration and Practice

YL Irwin, BPharm (Rhodes)

Lecturer, Physiology and Anatomy

N Dukhi, MedSci, MedSci(Hons), M MedSci(UKZN)

Lecturer of Pharmaceutics

SMM Khamanga, BSc(Swaziland, BPharm, MSc(Pharm)(Rhodes)

Lecturer, Pharmacy Administration and Practice

KB Yusuff, BPharm(Hons)(Ife), MPharm(Clinical Pharmacy, PhD(Lagos)

Lecturer, Pharmaceutical Chemistry

BS Samant, BSc, MSc, PhD(Mumbai)

Honorary Appointments Visiting Professors

N Finkelstein, DipPharm, DCC (Cape Tech), BSc (Hons) (MedSci) (Stell), MSc (Strathclyde), PhD (Rhodes), MSACHEM, FPS(SA), FRPharmS (GB) RK Verbeecq, BSc(Pharmacy), PhD(KULeuven)

Visiting Fellows

P Smith, BSc(Pharm) (Rhodes), MBL (UNISA), MPS(SA), MRPharmS (GRTBRIT) J Meakings, BPharm (Rhodes), PMD (UCT), FPS (SA)

Research Associates

V Sewram, BSc(Hons), MSc, PhD (Natal), MPH Epidemiology (UCT) EJ Mills, PGDEBHC, MSc (Oxford) BD Paterson, BS (Pharmacy) (NDSU), MS (Hospital) Pharmacy, PhD (Iowa)

Faculty of Science

While this Student Handbook will give you a good overview of what is available in the Science Faculty, more comprehensive information and additional material is available in the Science Faculty Student Handbook and on the web at <http://scifac.ru.ac.za>. Further information is available from the Dean of Science at scisec@ru.ac.za or 0466037232.

THE SCIENCE FACULTY INCLUDES THE FOLLOWING 12 DEPARTMENTS:

- Botany
- Chemistry
- Environmental Science
- Geology
- Ichthyology & Fisheries Science
- Physics
- Zoology & Entomology
- Computer Science
- Geography
- Human Kinetics & Ergonomics
- Mathematics, pure and applied
- Statistics

Further details about these departments are presented later in this handbook.

THE STRUCTURE OF A DEGREE

The Science Faculty offers four degrees:

- The **BSc** (Bachelor of Science) is the usual "first" degree in the Faculty, requiring a minimum of three years' study after school. A wide range of subjects - most of which are "scientific" in nature - can be studied in order to qualify for this degree.
- The **BSc(InfSys)** (Bachelor of Science (Information Systems)) is a 3 year degree intended for students who wish to become computer specialists in a commercial environment. It has a more rigid curriculum than the ordinary BSc degree.
- The **BSc(SofDev)** (Bachelor of Science (Software Development)) is a 4 year degree intended for students who wish to become computer specialists in a software systems environment.
- The **BSc(F)** - (Extended Studies Programme) This programme is taken by students who have not quite met the minimum entrance requirements for the faculty. These students spend two years as BScF students after which they join the BSc students and graduate with a SSc.

All of these degrees share a similar basic structure. In the typical SSc, a student will do 8 semester courses in first year, six in second year and four in third year. The four semesters in third year will belong to two subjects (= major subjects; e.g. zoology 301 & 302 or biochemistry 301 & 302). The same subjects will be taken in second year (zoology 201 & 202; biochemistry 201 & 202) with two additional semester courses. The subjects taken in first year are those required to allow access to the chosen second year subjects and will include both those needed for the majors (e.g. first year zoology) and also any co-requisite subjects such as chemistry for zoology 2 or maths 1 for physics 2.

Full details on co-requisite subjects can be found on the web site.

Most subjects are taught through a full year with two semesters of work (chemistry 101 and chemistry 102 = first year chemistry). A few are offered as stand alone single semesters (physics 1E2, maths 101, computer science H1) and of these only CSC H is taught in the two semesters. Maths 1 is the only non-semesterized course in the science faculty.

Most subjects are taught in all three academic years (physics 1, physics 2 and physics 3) however a few are taught in second and third years only (entomology 2 and entomology 3).

A typical BSc over three years might look like this.

Year 1	Zoology 1				Chemistry 1		Geography 1	
	CEL 101	ZOO 101	CSC 1L1	BOT 102	CHE 101	CHE 102	EAR 101	GOG 102
Year 2	ZOO 201	ZOO 202	ENT 201	ENT 202	CHE 201	CHE 202		
Year 3	ZOO 301	ZOO 302	ENT 301	ENT 302				

Note: that in this example, the majors are zoology and entomology. First year zoology comprises cel 101 (a cell biology course) and zoo 101. To major in zoology you need to pass cel101, zoo 101 and bot 102 AND chemistry 1 (a co-requisite). Entomology is one of a number of subjects taught in second and third years only. To major in entomology, you must pass cel 101, zoo 101, bot 102 and chemistry 1. Clearly, subject choice in first year is set by your selection of major subjects.

THE BASIC BSC OVER FOUR YEARS

For some students it is necessary to reduce the workload in first year and spread the degree over four years. In this case we try to cover at least eight and preferably 10 semester credits in two years. A typical 4 year curriculum would look like this.

Year 1	Maths 1		Computer Science 1					
			CSC 101	CSC 102		PHY 1E2		
Year 2	Stats 1		Physics 1		Chemistry 1			
	STA 101	STA 102	PHY 101	PHY 102	CHE 101	CHE 102		
Year 3	PHY 201	PHY 202	CSC 201	CSC 202				
Year 4	PHY 301	PHY 302	CSC 301	CSC 302				

Note: The exact structure of the first two years is very variable but typically the student will only start second year subjects in year 3. In this example the students has one additional credit.

The **BScF** (Extended Studies Programme) is a four year degree in which students who do not meet the usual Faculty entrance requirements are provided with an opportunity to complete a degree over four years. In first year, these students do three specially designed courses, one in maths, one in computer literacy and an introduction to the concepts and methods of science. In second year, the students will take a selection of standard first year courses and in their third year, they join the BSc year two group.

BSc (infsys) and BSc (sofDev) are designed for students who plan to use computers in a commercial environment. The degree structure is not very flexible and students must pass 20 semester credits; a typical example is presented below:

Year 1	CSC 101	CSC 102	ACC 101	ACC 102	MAT 102	MAT 101	MAN 101	MAN 102	ECO 101	ECO 102
Year 2	CSC 201	CSC 202	INF 201	INF 202	STA 101	PHY 1E2				
Year 3	CSC 301	CSC 302	INF 301	INF 302						

In these two degrees, students must pass the following courses

First and Second years

Computer science 1 & 2

Information systems 2

Economics 1, Management 1, Accounting 1

Statistics 1D or 101, Physics 1E2, Maths 102 and one other course approved by the Dean.

Third year (BSe (infsys)

Computer science 3, and one of information systems 3, accounting 3, economics 3, management 3, pure maths 3, mathematical statistics 3.

Third & Fourth years (BSc(Sofdev).

Computer science 3 and information systems 3, and computer science and information systems 4.

SUBJECT CHOICES IN THE ORDINARY SSC DEGREE.

The subjects that can be taken in a BSc degree are classified into two groups, A & B.

Group A comprises subjects that you would expect to find in a science degree. Most are taught over three years (e.g. botany, chemistry, physics) while some are taught in second and third years only (e.g. ichthyology, entomology, microbiology, biochemistry). A few are non major subjects and used to provide necessary additional skills such as electronics (phy 1E2), statistics (stats 101) and computer literacy (csc H1).

Group B includes all other subjects including those taught in the humanities (such as anthropology and history) or commerce (accounting or management) and law.

If the two majors are from group A the degree comprises 18 credits of which no more than 4 semester credits may come from a single department in group B.

If one major is from Group B, then the degree comprises 20 credits and All credits EXCEPT those for the three years of the Group B major MUST come from Group A. A typical 20 credit degree with a Group B major looks like this.

Year 1	PSY 101	PSY 102	HKE 101	HKE 102	CEL 101	ZOO 102	PHY 1E1	PHY 1E2
Year 2	PSY 201	PSY 202	HKE 201	HKE 202	2 Other Credits		CSC 101	CSC 102
Year 3	PSY 301	PSY 302	HKE 301	HKE 302				

Note in this curriculum the student is majoring in psychology (PSY) and Human Kinetics and Ergonomics (HKE). There are 20 credits of which ONLY the three years of psychology are from Group B.

A few other examples of possible curricular follow:

One possible Biology curriculum.

Year 1	Biology				Chemistry		Geography	
	CEL 101	ZOO 101	PHY 1E1	BOT 102	CHE 101	CHE 102	EAR 101	GOG 102
Year 2	ZOO 201	ZOO 202	BOT 201	BOT 202	STA 101	CSC 1L		
Year 3	ZOO 301	ZOO 302	BOT 301	BOT 302				

A Microbiology/ Biochemistry curriculum.

Year 1	Chemistry		Statistics	Botany	Zoology 1		Geography 1	
	CHE 101	CHE 102	STA 101	BOT 102	CEL 101	ZOO 101	EAR 101	GOG 102
Year 2	Biochemistry		Microbiology					
	BCH 201	BCH 202	MIC 201	MIC 202	ZOO 201	ZOO 202		
Year 3	BCH 301	BCH 302	MIC 301	MIC 302				

A curriculum with a lot of chemistry.

Year 1	CEL 101	ZOO 101	CHE 101	CHE 102	PHY 1E1	PHY 1E2	MAT 1 - all year	
Year 2	BCH 201	BCH 202	CHE 201	CHE 202	MIC 301	MIC 202		
Year 3	BCH 201	BCH 302	CHE 301	CHE 302				

A curriculum that is a classic combination of Physics and Chemistry.

Year 1	PHY 101	PHY 102	CHE 101	CHE 102	MAT 1 - all year		CSC 101	CSC 102
Year 2	PHY 201	PHY 202	CHE 201	CHE 202	MAP 201	MAP 202		
Year 3	PHY 301	PHY 302	CHE 301	CHE 302				

Physics can also be combined with Geology, leading to a career as a Geophysicist.

Year 1	PHY 101	PHY 102	EAR 101	GLG 101	CHE 102	CHE 102	MAT 1 - all year	
Year 2	PHY 201	PHY 202	GLG 201	GLG 202	MAT 201	MAT 202		
Year 3	PHY 301	PHY 302	GLG 301	GLG 302				

Geology and Economics can be taken together to give a good foundation for those wishing to become mineral economists.

Year 1	ECO 101	ECO 102	EAR 101	GLG 102	CHE 101	CHE 102	MAT 1 - all year	
Year 2	ECO 201	ECO 202	GLG 201	GLG 202	CHE 201	CHE 202		
Year 3	ECO 301	ECO 302	GLG 301	GLG 302				

Here is a curriculum that shows a combination of Geography and Environmental Science.

Year 1	EAR 101	GOG 102	Anthropology 1 ANT 1 - all year		CEL 101	BOT 102	CHE 101	CHE 102
Year 2	GOG 201	GOG 202	ENV 201	ENV 202	BOT 201	BOT 202		
Year 3	GOG 301	GOG 302	ENV 301	ENV 302				

A variation on this might appeal to those interested in tourism studies.

Year 1	EAR 101	GOG 102	Anthropology 1 ANT 1 - all year		CEL 101	ZOO 101	ECO 101	ECO 102
Year 2	GOG 201	GOG 202	ENV 201	ENV 202	ECO 201	ECO 202		
Year 3	GOG 301	GOG 302	ENV 301	ENV 302				

Computer Science is a popular and challenging subject. Here is a very strong combination for the technically oriented, who might wish to become experts in computers and in electronics.

Year 1	PHY 101	PHY 102	CSC 101	CSC 102	MAT 1 - all year		STA 101	STA 102
Year 2	PHY 201	PHY 202	CSC 201	CSC 202	MAP 201	MAP 202		
Year 3	PHY 301	PHY 302	CSC 301	CSC 302				

It is possible to do a BSc with an enormous amount of mathematical content (and some Physics, which is closely related to Applied Mathematics).

Year 1	MAT 1- all year		STA 101	STA 102	PHY 101	PHY 102	CSC 101	CSC 102
Year 2	MAT 201	MAT 202	MST 201	MST 202	MAP 201	MAP 202		
Year 3	MAT 301	MAT 302	MST 301	MST 302				

Some people prefer working with people or animals to working with machines or mathematics. Perhaps your interest is in Human Kinetics and Ergonomics - to study the Body's machine functions.

Year 1	CEL 101	ZOO 101	HKE 101	HKE 102	CHE 101	CHE 102	EAR 101	GOG 102
Year 2	ZOO 201	ZOO 202	HKE 201	HKE 202	1 other credit		Botany - BOT 102	
Year 3	ZOO 301	ZOO 302	HKE 301	HKE 302				

Human Kinetics and Ergonomics is quite often combined with Psychology. Here is a curriculum that does just that. Because Psychology is a "Group B" subject, this degree requires a total of 20 semester-credits.

Year 1	PSY 101	PSY 102	HKE 101	HKE 102	CEL 101	ZOO 101	CHE 101	CHE 102
Year 2	PSY 2		HKE 201	HKE 202	2 other credits		Statistics STA 101	CSC 1L
Year 3	PSY 3		HKE 302	HKE 302				

In recent times several students have combined Legal Theory with Science, rather than only with Humanities or Commerce, and gone on to acquire the initials "BSc LLB" after their names before following specialised careers in Law. Here is a curriculum that might appeal to those who wish to become experts in Environmental Law.

Year 1	Legal Theory 1	CEL 101	ZOO 101	PHY 1E1	BOT 102	CHE 101	CHE 102
Year 2	Legal Theory 2	ENV 201	ENV 202	BOT 201	BOT 202	EAR 101	GOG 102
Year 3	Legal Theory 3	ENV 301	ENV 302				

Finally, while many combinations of subjects are possible, some combinations are prevented by timetable clashes. You can use the online timetable clash checker at:
<http://scifac.ru.ac.za/wwwtime.09/timetable.php> to see if your chosen subjects will clash.

Accounting

Accounting is essentially an information system concerned with gathering, recording, analysing and interpreting financial data about the activities of businesses and other organisations. It is concerned with interpreting and communicating this information to managers and others who use it to make business decisions. Accounting can be regarded as 'the language of business', since it forms a part of the language used by business managers, analysts, lawyers and economists.

The process of gathering, recording, measuring, analysing and interpreting financial data involves two interrelated activities. The first is 'book-keeping', recording and analysing of business transactions according to a set of prescribed rules and arithmetical procedures. The second is 'accounting', designing book-keeping systems and preparing and interpreting reports, such as annual financial statements, which measure in money terms the wealth of a business at a particular time and its 'performance' over a specific period.

Accounting is a practical activity performed by highly trained accountants who often belong to a professional body such as the South African Institute of Chartered Accountants or the Chartered Institute of Management Accountants. It is also an intellectual discipline concerned with the models, concepts and principles used to measure the wealth and performance of business organisations.

Fields of study

The main fields of study into which Accounting is divided are:

Financial Accounting:

The recording of transactions for a business organisation and the periodic preparation and interpretation of various accounting reports, the most important of which are the annual financial statements.

Management Accounting:

The use of models and procedures together with historical and estimated data to assist business managers in their daily operations and in strategic planning, decision-making and control.

Auditing:

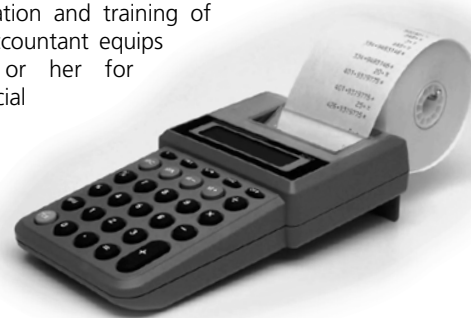
The practical procedures, legal rules and ethical standards observed by professional accountants in conducting an independent review of the internal control and accounting systems, records and financial reports of a business organisation.

Taxation:

The application of legal and administrative regulations to calculate the taxes payable by businesses and individuals, to prepare tax returns, and to evaluate the possible tax consequences of proposed business transactions.

Career Opportunities

A basic knowledge of accounting is essential for any career in business. The education and training of an accountant equips him or her for financial



management and business leadership in commerce and industry, in addition to qualifying as a chartered accountant and practising as an auditor within the profession. Many business leaders, including managing and financial directors and company secretaries, are accountants. A survey by the Human Sciences Research Council has shown that chartered accountants are among South Africa's most highly paid professional people.

Accounting at Rhodes

The Department of Accounting provides courses in the four main fields of accounting to meet the needs of students who wish to specialise in Accounting and also to meet the needs of students who wish to specialise in other fields such as Management, Economics, Law and Information Systems. The emphasis is on providing a thorough knowledge of the theoretical foundations of accounting, to develop a range of accounting skills and techniques and an understanding of the interrelationship between the fields of Accounting, Law, Management and Economics.

Facilities

The University Library contains an extensive range of textbooks, current journals and financial reports in hard copy and electronic format. Detailed handouts are provided in each course to supplement the textbooks.

Practical Experience

Students who wish to specialise in Accounting are encouraged to gain experience by taking vacation employment with various employers and firms of chartered accountants.

Building up a degree curriculum

Accounting may be taken as a major subject for a Bachelor of Commerce degree, and also in the Bachelor of Business Science degree. All BCom students at Rhodes must include at least Accounting 1 in their curriculum.

Postgraduate options

Students completing the Accounting curriculum can choose to follow a postgraduate degree or diploma in financial accounting, management accounting, financial management or taxation. The Postgraduate Diploma in Accountancy admits candidates to Part 1 of the qualifying examination of the South African Institute of Chartered Accountants. The Postgraduate Diploma in Taxation prepares students for a career in taxation consultancy. The Honours degree with specialism in Management Accounting provides students with exemption from four of the six papers for the Chartered Institute of Management Accountants managerial level qualification. The Honours degree with specialism in Financial Management prepares students for the level 1 examinations of the Chartered Financial Analyst Institute.

Any of these postgraduate qualifications enables students to enrol for a master's degree in accounting, financial management or taxation.

The lecturing staff

Each member of the lecturing staff is a specialist in one of the subdisciplines of accounting. Because of involvement in business and tax consulting, or representation on audit and policy making committees and bodies, lecturers are able to bring wide practical experience and cutting edge business knowledge to enrich lecture material and presentations to students.

Anthropology

Introduction

Anthropology is the systematic study of human beings: past, present and future; body, mind, and spirit. Socio-cultural anthropology, the main focus of anthropology at Rhodes, is chiefly concerned with relationships between people in particular social and cultural contexts. Traditionally, anthropologists have studied small, isolated communities a long way from their own homes, where all aspects of the local society and culture could be investigated by a single researcher. Today, anthropologists' interests include a much wider range of contexts – from families to classrooms, congregations to boardrooms, neighbourhoods to workplaces – and they take account of the widest influences – including the impact of globalisation – on their particular context of study. Whether traditional or postmodern, local or global in orientation, anthropology has always provided students with new ways of looking at their own social situations and of understanding those of others.

The Staff

Associate Professor and Head of Department
Robin CG Palmer, BA(Hons) (Durham), PhD (Sussex).

Research: Migrants from Italy; Nature reserves, indigenous land rights and tourism in the Eastern Cape.

Professor

Chris J de Wet, MA(Stell), MSt(Oxon), PhD(Rhodes).

Research: Development projects and population resettlement in Southern Africa and India; Land reform.

Senior Lecturer

MJ Rosabelle Boswell, MSocSci (UCT), PhD (V U Amsterdam).

Research: The Mauritian Creoles; Identity and ethnicity in island societies.

Lecturer

Penny S Bernard, BSocSc (Natal), BSocSc (Hons) (Rhodes).

Research: Traditional and spiritual healing in Southern Africa; Indigenous sacred sites treaty to rights of access.

Lecturer

Joy Owen, MSocSc (UCT).

Research: Transnational African migration to, and identity in, South Africa.

Lecturer

Detlev Krige, MA (London School of Economics)

Research: Soweto's informal economy

Why study Anthropology?

We study humankind in order to understand ourselves and others better. Understanding is essential if we are to make sound moral and political judgements and if our interventions as educated leaders into the lives of others are to be constructive. Wherever life's paths may lead, this commitment and experience is valuable. One should be a better lawyer, manager, teacher, journalist, artist, development worker, politician or parent for being an anthropologist too. By the same token, taking anthropology also means that one gains a broader perspective on most other courses that one takes at Rhodes. And – one can become a professional academic anthropologist in a university!

What is in the undergraduate programme?

Anthropology 1 is a 'stand alone' course which introduces the subject and complements others in the humanities. We begin by tracing the origins of ourselves as a species from a largely biological perspective. We then consider how our biological and psycho-social components are related to each other

in issues such as race and ethnicity, sex and gender. Comparative studies of the family and kinship, political and economic activities and the place of the supernatural in human societies illustrate our astonishing versatility as humans in making sense of experience. The course concludes with an extended case study in which we examine one or two societies in detail.

The second and third year courses should be seen as part of a single programme, with topics being tackled in greater depth as we go along. Second year lectures and tutorials are replaced by seminars, building up to a substantial piece of original field research by the end of the third year. Modules on fieldwork methods and social theory give a rigorous and participatory emphasis. Detailed studies of areas – such as the Indian Ocean islands or the Eastern Cape – are interspersed with themes such as environmental and medical anthropology, gender ethnicity and tourism. Major practical issues such as refugees, resettlement and poverty are also addressed.

Postgraduate Studies

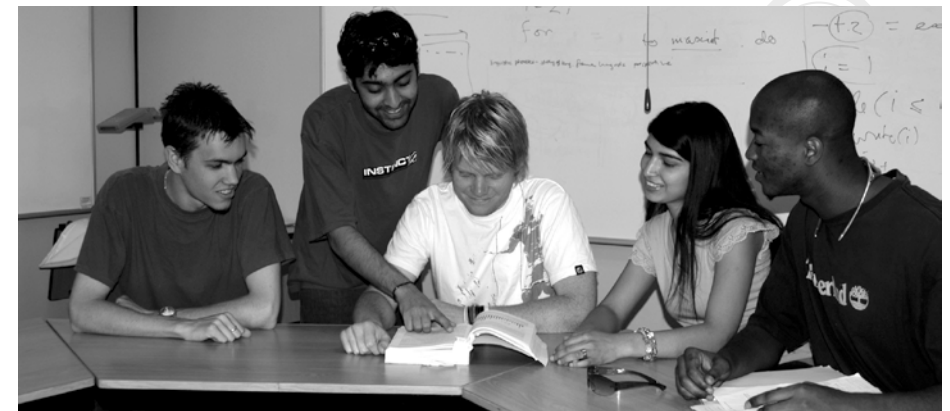
'Honours in Anthropology' consists of three taught modules determined to a large extent by student preferences, and a fieldwork-based mini-thesis. Students may subsequently study for the MA and PhD,

which normally require Honours, but require no formal coursework and are awarded entirely on the basis of the dissertation.

What can I do with it?

Only a small proportion of our graduates become professional academic anthropologists, but there are stimulating career options outside of academe to which anthropological training can be turned to good effect. Development programmes and medical research, from the most 'high-tech' to the most intensely social and personal, increasingly require the input of anthropologists to advise all parties concerned of the implications of policies and proposals for local communities. The tourism industry, NGOs and the civil service provide many openings for people competent to interpret the meanings of one culture to people of another. Most aspects of management in the larger corporations of the private sector also confront problems of intercultural communication which a person with anthropological training is equipped to address.

A major in Anthropology will certainly broaden your career options and improve your work performance, but it will also help to make your life as a whole more worth living, through the unique perspective anthropology provides on the richness and diversity of the human condition.



Biochemistry, Microbiology, Biotechnology

The Department of Biochemistry and Microbiology was established at Rhodes University in 1989 as an amalgamation of two existing Departments – Microbiology, which had developed as a sub-Department of Botany and Biochemistry from the umbrella of the Department of Chemistry. The teaching of Biotechnology, initiated in 1986 was a 'first' for any South African University and in 2001 we became known as the Department of Biochemistry, Microbiology and Biotechnology.

Biochemistry is the study of those molecules and biochemical reactions that characterize living systems and may include hormone action, physiology of vision, muscle contraction, disease, neurology, structural biology, bioinformatics, metabolism and aspects of plant biochemistry.

Microbiology can be classified into the structure, biochemistry, genetics and impact on man of bacteria, viruses, and fungi. More specifically it may study the structure of a virus, genetic differences of HIV strain, pathogenicity of bacteria, genetic control in yeast or the interaction of mycorrhizal fungi with crop plants.

Biotechnology is the field in which fundamental Biochemistry and Microbiology are developed for industrial and technical applications. Specifically it covers well established fields such as novel bioproducts, biosensing, biofuels, environmental biotechnology and bioprocess design and development.



Biochemistry & Microbiology

Biochemistry (BCH) and Microbiology (MIC) are four semester subjects which may be taken as major subjects for the degrees of BSc, BCom and BJourn. To major in **Biochemistry**, a candidate is required to obtain credit in the following courses: CHE 1; BCH 2; BCH 3; to major in **Microbiology**, a candidate is required to obtain credit in the following courses: CHE 1; ZOO 1 or BOT 1 or BIO 1; MIC 2; MIC 3.

Students who aim to major in Biochemistry and/or Microbiology and progress to postgraduate studies in computational biology, genomics, cell biology, protein structure and function and biotechnology are encouraged to register for advanced courses in one or more of Microbiology and/or Biochemistry, Computer Science, Chemistry, Mathematics and Environmental Science.

Introductory Molecular Biology

Introductory Molecular Biology (IMB) is a two semester subject offered at the second year level to students not majoring in either Biochemistry or Microbiology who require a basic understanding in biochemistry and molecular biology for application in other biological sciences, law, journalism, pharmacy, computer science and education. The subject is comprised of two semester courses offered in Biochemistry and



Microbiology, namely IMB 201 (same as BCH 201) and IMB 202 (same as MIC 202). Credit may be obtained in each course separately and, in addition, an aggregate mark of at least 50% will be deemed to be equivalent to a two credit course IMB 2, provided that a candidate obtains the required subminimum (40%) in each component. No supplementary examinations will be offered for either course. Practical reports, essays and class tests collectively comprise the class mark, which forms part of the final mark. Credit in Chemistry (CHE 1) is required before a student may register for IMB 2.

A subminimum of 40% in IMB 201 is required for registration in IMB 202.

Students unable to complete IMB 201 and IMB 202 in the same calendar year will be required to pass both courses to obtain a credit in IMB 2. Credit in IMB 2 will not enable registration for either BCH 3 or MIC 3.

BCH 201 (1st Semester)

Introductory Biochemistry: Aqueous biochemistry & buffers; building blocks in biochemistry; amino acids & proteins; nucleotides, DNA & RNA; carbohydrates; lipids & membranes; vitamins, coenzymes & enzymes.

Bioenergetics & metabolism: Enzyme kinetics, specificity & regulation; bioenergetics & thermodynamics; catabolism & catabolic pathways; oxidative phosphorylation & substrate phosphorylation; anabolism and anabolic pathways.

BCH 202 (2nd Semester)

Biochemical techniques: This course is taught in the context of protein purification and analysis

and includes: protein purification strategies; cell disruption & centrifugation; chromatography; spectroscopy; electrophoresis and radioactivity in biochemistry.

Biological chemistry & computational biochemistry: Non-covalent interactions and molecular recognition in biological systems; theory and application of computational methods and tools for the visualization and modelling of biomacromolecules; organic reaction mechanisms in biological systems; stereochemistry and stereospecificity of biological systems.

BCH 301 (1st Semester)

Biochemistry of Information Flow: The structure of chromosomes and plasmids; DNA replication and repair; transcription and regulation of gene expression; protein synthesis, transport and degradation.

Advanced Techniques in Biochemistry & Molecular Biology: Recombinant DNA technology; sequencing and analysis of genes and genomes; immunochemistry; differential & analytical centrifugation; advanced chromatography; advanced spectroscopy.



BCH 302 (2nd Semester)

Signal Transduction: Signal transduction in the context of hormones and neurotransmission; biosynthesis of biomolecules; inborn errors of metabolism.

Enzymology & Molecular Modelling: Enzyme mechanisms; advanced enzyme kinetics; advanced theory and application of computational

methods and tools for the visualization and modelling of enzymes.

Biochemistry Honours

The course consists of coursework modules and lectures on selected advanced topics such as genomics, proteomics and protein/protein interaction; protein purification and biotechnology and small molecule analysis; structure & function of biomacromolecules, protein folding, protein engineering, advanced enzymology, applied enzymology & immobilized enzymes, a literature review, essays and a research project.



MIC 201 (1st Semester)

Introductory Microbiology: Classification, growth, assay and control of microorganisms. Organization and replication of microbes (microbial structure; cellular organization and modes of replication of yeast, bacteria, fungi and



viruses). Microbial interactions (microorganisms of soil and water; their interrelationships, activity and impact; nutrient cycling). Metabolism (energy generation; biosynthetic pathways; enzyme regulation). The course includes a field trip to study the role of fungi in the environment.

MIC 202 (2nd Semester)

Introductory molecular biology: The structure of nucleic acids and proteins; the flow of genetic information. Basic bacterial genetics (bacterial conjugation, transformation and transduction; bacteriophages; plasmids). Prokaryote gene regulation (plasmid replication and host range; transposable elements; regulation of gene expression). Genetic engineering.

MIC 301 (1st Semester)

Eukaryote Molecular Biology and Advanced Virology: Eukaryote cell biology (structure and function of the cellular organelles; cellular sorting and trafficking). Eukaryote molecular genetics (genome structure and organisation, the eukaryotic gene, the flow of information, transcriptional and translational regulation of gene expression; the cell cycle and apoptosis).



Virology (families of viruses; molecular biology of representative DNA and RNA viruses; stages and strategies of viral replication; vaccines). Immunology and the immune response, antigens and immunoglobulins. The practical component of this course focuses on recombinant DNA techniques (DNA cloning, genetic manipulation of bacterial and yeast cells, PCR, purification of viruses and immunological techniques such as Elisa and Western blot analysis of proteins).

MIC 302 (2nd Semester)

Molecular and Industrial Biotechnology: Industrial and applied microbiology (exploiting microorganisms for industrial and commercial purposes). Topics covered include: Developing microbial products and biological control, metabolic engineering; microbial growth kinetics; batch and continuous culture; downstream processing; primary and secondary metabolism; antibiotic production; amino acid production; beer brewing. Gene manipulation (gene identification and isolation; cloning strategies; expression of recombinant genes). Environmental Biotechnology: industrial ecology, bioremediation, waste treatment technology, biosensors. Gene Therapy (implications and applications of recombinant DNA research). The course includes practical experience in molecular techniques used for identification of microbes and fermentation of alcoholic beverages as well as a field trip to local industries and laboratories.

Microbiology Honours

The course consists of practical modules, specialized topics, essays, tutorials, seminars on advanced aspects of Microbiology including virology, mycology, mycorrhizal fungi, molecular biology, gene therapy and microbial genetics. Each candidate undertakes a research project and the written report together with all seminars, essays and practical reports will be considered part of the final examination.



Biotechnology Honours

This course is offered as a professional qualification for students interested in careers in the biotechnology sector. Candidates normally have either Microbiology or Biochemistry as major BSc subjects. Candidates with other majors will be considered and a credit in Introductory Molecular Biology (BCH 201 + MIC 202) will be an advantage in the absence of majors in Microbiology or Biochemistry. The course consists of lectures, seminars and essays covering a series of topics in biotechnology such as process biotechnology, biosensors, nanobiotechnology, alternative energy, industrial bioprocess design and strategy, enzyme engineering, advanced topics in environmental biotechnology, intellectual property and management. This course also includes topics in protein-protein interactions and genomics. Practical work will consist of a course concentrating on exposure to methods and theory essential to the subject. This will be followed by a research project of original investigation. All seminars, essays and practical reports will be considered as part of the final examination.

MSc and PhD degrees

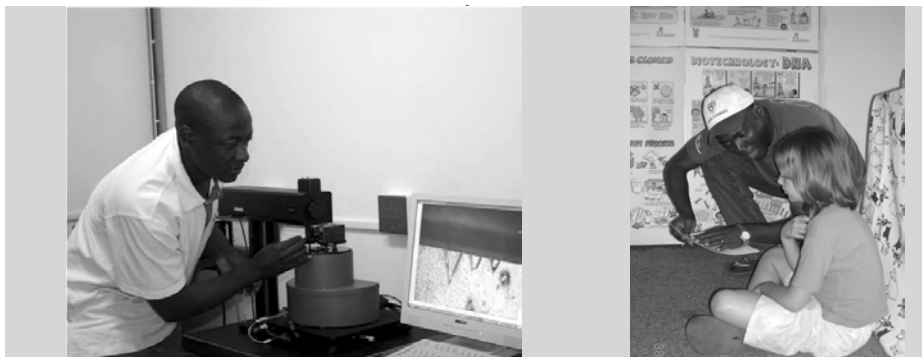
Suitably qualified students are encouraged to proceed to the research degrees of MSc and PhD under the direction of the staff.

Current research programmes include:

- Molecular chaperones
- Yeast genetics
- Mycorrhizal fungi
- Biosensors
- Virus structure and molecular biology
- Mycology
- Structural biology
- Computational analysis
- Cellulosomes & biofuels
- Wastewater biotechnology
- Nanotechnology

CAREER OPPORTUNITIES

- Pharmaceutical companies
- Dope testing
- Lecturing/university research
- Medical/veterinary research
- Brewing



- Food and nutrition
- Environmental consultancies
- Biotechnology research
- Quality control
- Technician/laboratory assistant
- Scientific product manager
- Institute of immunology
- Sugar research
- Agriculture & horticulture
- Institute of occupational diseases
- Institute of tropical diseases

Academic Staff

Professor & Head of Department
RA Dorrington, BSc Agric (Stell), PhD (CapeTown).

Professor of Biochemistry
GL Blatch, BSc(Hons) (Natal), PhD (Cape Town)

Professor of Biochemistry
CG Whiteley, PhD (Natal), MRSC, CChem.

Senior Lecturer & Head of Biochemistry
B Pletschke, PhD (UPE).

Senior Lecturer in Biotechnology & Head of Biotechnology
J Limson, PhD (Rhodes).

Senior Lecturer & Head of Microbiology
J Dames, PhD (Wits).

Lecturer in Microbiology
C Knox, PhD (Wits).

Senior Lecturer in Biochemistry
B Wilhelmi, PhD (Rhodes).

Lecturer in Biochemistry
A Boshoff, PhD (Rhodes).

Lecturer in Biochemistry
A Edkins, PhD (Glasgow).

Senior Lecturer in Bioinformatics:
O Tastan-Bishop

Research Associates:
NS Gardiner, PhD (Rhodes);
Prof. Emeritus: D Hendry, PhD (Rhodes).

Visit our web-site:
<http://www.ru.ac.za/bmb/>

Botany

What is Botany?

Botany is the scientific study of plant life, from the molecular, genetic and biochemical level through cells, tissues, organs, individuals, plant populations and communities to entire ecosystems. Botanists are interested in the evolutionary relationships between plants (systematics), plant structure and function (anatomy and physiology) and the interactions between plants and their environment including other organisms (ecology). The importance of plants to people is the subject of ethnobotany, while conservation biology and rehabilitation ecology are concerned with understanding and mitigating the impacts of society on species and ecosystems.

Why study plants?

Plants form the largest component of most ecosystems, and all life on earth depends on plants as a source of energy and oxygen. Plants also play a crucial role in fixing carbon dioxide and counteracting the effects of climate change. The importance of biodiversity and functional ecosystems is increasingly recognised, but at the same time ecosystems are under increasing threat from human activities. An understanding of the functioning of plants from the cellular to the ecosystem level is required for us to manage our natural resources, for the conservation of remaining natural ecosystems, for resource management in agricultural landscapes and the rehabilitation of severely disturbed areas. South Africa is home to 10% of the world's 240 000 plant species, the world's smallest Floral Kingdom (the Fynbos), the world's most species-rich arid region (the Succulent Karoo) and several biodiversity hotspots. There is an unprecedented level of international interest and investment in conserving South Africa's biodiversity.

Career options

A degree in Botany will equip you with a range of skills that can be applied in many different careers, from research to teaching, to applied fields. Research careers include working for universities, the South African National Biodiversity Institute (SANBI), the Agricultural Research Council (ARC) and other research institutes. Botanical expertise

is required in resource management, nature conservation, government departments like Water Affairs and Forestry and Environmental Affairs, environmental consulting, legislation and policy design and rural development. People with Botany degrees have also moved into careers such as science publishing and research for the private sector. They were able to do so because their Botany degree equipped them with widely applicable skills in independent research, data analysis, report writing and verbal communication.

Why Botany at Rhodes?

- Rhodes Botany has a curriculum that is geared to the real world and exciting job opportunities.
- Theory is closely linked to field and lab based application, giving you hands-on research experience
- The Botany Department has dedicated and enthusiastic staff and well-equipped teaching and research facilities.
- Opportunities are available for part-time employment on research projects.
- Grahamstown is located in one of the country's biodiversity hotspots. The Rhodes Botany Department has, right on its doorstep, ecosystems ranging from the coastal dune systems to savanna, karoo, thicket, forest and fynbos.
- There is also a range of land use, from conservation areas with the Big Five to communal and commercial farms around the Grahamstown area. This provides unique opportunities for research projects with a management or conservation focus.
- Rhodes Botany graduates hold important and exciting positions as researchers, consultants, teachers and in the private sector around the world.

First year curriculum

First Year Botany consists of two semester courses Cell Biology 101 and Botany 102 (CEL 101 & BOT 102). To major in botany students



Students getting a lesson on the measurement of plant water potentials. Kasouga 2nd year field trip 2003.

are also required to take a semester of zoology (ZOO 101). CEL 101 and BOT 102 can be taken individually, but in combination the two courses are designed to form a logical progression.

CEL 101: Cell Biology

All prospective life science and pharmacy students take this course. Aspects covered include cell structure in prokaryotic and eukaryotic cells, cellular processes including cell to cell communication, photosynthesis and cell respiration. Cell division, fundamental genetics, including the structure of genetic material and how it controls cellular processes, are also covered.

BOT 102: Plant Evolution and Ecology

This course examines the mechanism of evolution through natural selection and the diversity of land plants that are a result of evolution. A section exploring whole plant function and adaptation follows this. Plant ecology deals with interactions between plants and their environment and other organisms at different levels of organisation from the individual to the biosphere. The course ends with an introduction to the biomes of South Africa, highlighting the diversity in ecological processes that have shaped the vegetation in different parts of the country. A field trip to the coast provides an introduction to field ecology.

Second year curriculum

Second year Botany at Rhodes consists of two semester courses (BOT 201 & 202).

A joint field trip with second year Zoology, Entomology and Ichthyology students provides the opportunity to conduct interdisciplinary research projects. There is also a Botany field trip.

BOT 201: Biodiversity and Conservation

This course has the assessment, conservation and rehabilitation of botanical diversity as its central theme. The semester begins with a course on plant collecting and identification. A module on population and conservation biology lays the foundation for assessing biodiversity and the conservation status of species. Other modules deal with the biology, impacts and control of biological invasions, the impacts and management of plant utilisation, and the assessment and rehabilitation of disturbed landscapes. Many of the practicals consist of field excursions.

BOT 202: Plant Function

This course starts with a module on research methods. This provides hands-on training in skills required for planning and conducting experiments and analysing data. A module on developmental plant anatomy deals with

the structural differentiation and development of higher plants in which the developmental and functional relationships between tissue types are explored. A module on plant reproduction introduces some of the many modes of reproduction in Angiosperms before focusing on the interaction between plants and their pollinators. A module on carbon and nitrogen metabolism in plants examines pathways of energy production and utilisation and the regulation of metabolism.

Third year curriculum

Third year Botany at Rhodes consists of two semester courses (BOT 301 & 302). In third year Botany, all students undertake an independent research project on a topic of their choice, individually supervised by an academic staff member. This is an opportunity to develop research skills and to become familiar with the research facilities and staff in the department. The project may be field or laboratory based depending on the preference of the student.

Botany 301 – Biodiversity and evolution

This course examines important aspects of biodiversity. The first module considers the science of modern systematics. Aspects covered include nomenclature, sources of taxonomic data and methods of analysis, especially the schools of phenetics and cladistics. A second module looks at biogeography, exploring the relationship between present day distribution patterns of organisms, the past evolutionary history of these organisms and the geological



Ben making photosynthetic measurements

history of the earth. A final module on evolution examines evolutionary theory and the importance of evolution in the natural world around us.

Botany 302 – Plant and Ecosystem Function

This course offers three advanced modules on plant function in relation to the environment. A module on evolutionary plant anatomy examines in detail the evolution of some of the structures, including support and transport systems of vascular plants. An ecophysiology module examines the relationship between plant physiology and the environment where these plants grow, looking in particular at the physiological consequences of light, water and temperature stress. An ecology module looks at plant life histories and mechanisms of competition and coexistence in plant communities.

Honours in Botany

Botany Honours has a strong research focus and consists of theory modules selected by the student, essays and seminars, a statistics course and research projects. Modules on offer include anatomy, ecophysiology, ecology, systematics and biogeography, pollination biology, plant-insect feeding interactions, molecular ecology and conservation genetics, rehabilitation ecology and climate change.

An interdisciplinary Honours course on Biodiversity and Conservation is offered jointly by the departments of Botany and Environmental Science and is geared towards the growing number of career opportunities in biodiversity conservation in South Africa and worldwide. The course consists of core modules in statistics, GIS, biodiversity, tools in conservation science and systematic conservation planning. In addition, students select an optional module from either Botany or Environmental Science and do one research project.

Botany MSc and PhD

Further degrees may be studied in the botany department and are based on projects researching a particular topic. Topics on offer include: systematics, conservation and biodiversity, ecology, ecophysiology, restoration ecology, anatomy, ethnobotany and pollination biology.

Chemistry

CHEMISTRY

Chemistry has a long tradition at Rhodes, beginning with the appointment of Professor George Cory in 1904 as one of the four founding professors of the University. Now, at the beginning of the 21st Century, Chemistry at Rhodes is a vibrant and productive department, committed to excellence in teaching and research, innovative in its programmes and sensitive to the challenges confronting its graduates.

Why study Chemistry?

Chemistry has been described as the 'central science'. As such, it is not surprising that at least one year of Chemistry is required for students wishing to major in Biochemistry, Pharmacy, Microbiology, Botany, Zoology & Geology. For those who go on to major in Chemistry, the discipline opens new horizons on the molecular basis of the natural world and opportunities for employment or postgraduate research.



Chemistry staff and postgraduate students

Academic Staff

Professor of Organic Chemistry & Head of Department

MT Davies-Coleman, BSc(Hons), PhD(Rhodes)

DST/NFR Professor of Medicinal Chemistry and Nanotechnology and Director of the Nanotechnology Innovation Centre – Sensors

T Nyokong, BSc(Lesotho), MSc(McMaster), PhD(Western Ontario), FRSSAF

Professor of Analytical Chemistry
N Torto BSc(Hons)UMIST, MSc(Botswana), PhD (Lund)

Senior Lecturer, Physical Chemistry
RC Cosser, PhD(Lond), DIC

Senior Lecturer, Inorganic & Analytical Chemistry
GM Watkins, BSc (Hons), PhD(UCT)

Lecturer, Inorganic & Analytical Chemistry
ZR Tshentu, BSc(UPE), BSc(Hons)(UPE), MSc(UPE), PhD(NMMU)

Lecturer, Organic Chemistry
R Klein, BSc(Hons)(UCT), MSc(Rhodes), PhD(Miami)

Lecturer, Academic Development
JD Sewry, MSc(Rhodes), HDE(UNISA)

Lecturer, Physical Organic Chemistry
KA Lobb, BSc(Hons), PhD(Rhodes)

Junior Lecturer, Physical Chemistry
S Khene, BSc(Hons), MSc(Rhodes)

Director, Centre for Chemo- and Biomedical Research

PT Kaye, BSc(Natal), BSc(Hons) (UNISA), MSc(Natal), DPhil(Oxon), FRSC, CChem, FRSSAF

Career opportunities for chemists

There are career opportunities for chemists in many sectors, including: Research and Development (for which an MSc or PhD is essential); Industrial Production and Technical Support in areas such as fuels, explosives, fertilizers, plastics, pharmaceuticals and paints; Business Management: many chemists have risen to high positions in management and it is easier to add business and management qualifications to a scientific background than vice versa (Management can be taken as major subject, together with Chemistry, in a BSc degree at Rhodes); Education: enthusiastic and well-informed teachers and lecturers are crucial for the country's development.

Building up a degree curriculum

Chemistry may be taken as a major subject with most Science subjects, and possibilities exist for combining Chemistry, as one major, with Arts, Commerce or Law subjects, such as Legal Theory (for a career in Patent or Environmental Law), or Journalism (for a career as a science journalist). To major in Chemistry, a candidate is required to obtain credits in CHE 1; CHE 2; CHE 3; and two semester credits, normally comprised of one full first year course in any of Computer Science, Mathematics, Physics and Statistics.

Undergraduate Chemistry curricula

Chemistry I, which comprises two semester credits (CHE101 and CHE102), covers fundamental aspects of general, analytical, physical, organic and inorganic chemistry and provides students with a basic knowledge of chemical principles for application in other disciplines or as a foundation for a chemistry major. The second and third year curricula (each comprising two semester credits; see boxes) reflect an innovative approach, emphasising the interdisciplinary nature and relevance of chemistry in modern society without sacrificing academic rigour. Chemistry is an experimental science, and all undergraduate students have a practical each week.

Second year Curriculum

CHE201: first semester

Modern Analytical Methods

Principles; Spectroscopic methods: UV, IR, ^1H - and ^{13}C - NMR, MS, Atomic absorption /emission; Electroanalytical techniques; Chromatography

Entrepreneurial Chemistry Project

Chemical Thermodynamics including environmental aspects

CHE202: second semester

Strategic Organic Resources

Fossil fuels and organic chemicals
Feedstocks and reactions: alkenes and alkynes; Cycloalkanes: stereochemistry and synthesis; Aromatics: mechanisms; orientation effects; heterocycles.

Polymer Chemistry: Natural polymers: rubber, carbohydrates; Synthetic polymers; Physical properties.

Chemical kinetics of complex reactions including polymerization
Inorganic Chemistry: Periodic trends

Third year Curriculum

CHE301: first semester

Chemistry at the Biological Interface

Introduction and relevance

Quantum mechanics and molecular modelling

Biologically active organics:

Natural products;

Synthesis: carbonyl chemistry, retrosynthesis

Photochemistry and photodynamic therapy

Bioinorganic Chemistry

Surface chemistry of solutions

CHE302: second semester

Industrial Chemistry and Strategic Inorganic Resources

The Chemistry/Engineering Interface

Mass and heat transfer, unit operations, safety, environmental impact, financial aspects;

Industrial project

Solid surface chemistry

Heterogeneous catalysis

Reaction kinetics and energetics

Green Chemistry

Transition metals and coordination chemistry

Organometallics

Crystallography

Linear free energy relationships

PhD Research in the Department of Chemistry



Features of these curricula include:

ENTREPRENEURIAL PROJECTS in which second year students prepare, package and launch a saleable product, such as detergent powder, wood-glue or rust-remover; and

INDUSTRIAL PROJECTS in which third year students are charged with the responsibility of preparing a detailed proposal for the establishment of a chemical plant to make a particular product.



Working in a research laboratory

Graduate Profile

On completion of his PhD studies in Professor Kaye's laboratory **Dr Ross Robinson (PhD 1998)** joined the Department of Chemistry at the University of Kwazulu Natal Pietermaritzburg as a lecturer in organic chemistry. Ross has also spent a sabbatical carrying out research in the laboratories of Professor Richard Taylor at York University. He writes: 'Rhodes University is the sort of place that once you have been to, you can never get it out of your soul, in particular the Chemistry Department. This is such a well-run operation with excellent research and teaching programs. I have certainly gained a lot from my studies at Rhodes, which have stood me in good stead over the years since. One can only be proud of being involved with such an institution.'



Dr Ross Robinson

Dr Moira Bode (PhD 1994) reflects on the impact Rhodes has had on her working life: 'I graduated with my PhD under supervision of Prof. Kaye and my first job was as a lecturer in chemistry at UNISA. I stayed at UNISA for two years but didn't enjoy the work there and was happy to start working for Onderstepoort Veterinary Institute (OVI) as a researcher in the Toxicology Department. The work involved structure elucidation and synthesis of natural products relevant in the accidental poisoning of livestock. I stayed at Onderstepoort for 5 years and enjoyed the work very much but when the opportunity arose to do a post-doc at Delft University of Technology in the Netherlands in 2001, I resigned from OVI to take

it up. I spent a year at Delft working in the laboratories of Prof. Roger Sheldon in the area of biocatalysis. After returning from the Netherlands I started working at CSIR, then BioChemtek, now CSIR Biosciences. I have been at CSIR for 5 years and am working in the area of drug discovery.



Dr Moira Bode

As far as Rhodes University is concerned, I thoroughly enjoyed my studies there and think that Rhodes offers an all-round experience not available at many other universities. I regarded the chemistry department as home and was extremely happy under the supervision of Prof. Kaye. I came to rely on his unflappable nature and learned the important lesson not to panic if things don't immediately go as planned! Rhodes University impacted very positively on me and played a very important role in more than just my academic education.'



Dr Sibulelo Vilakazi

Dr Sibulelo Vilakazi (PhD 2001) studied with Professor Nyokong and says of her experiences after leaving Rhodes with a chemistry degree: 'I left Rhodes in March 2001 and rejoined the University of Limpopo as a senior lecturer in the Science Foundation programme. Later the same year, I assumed the position of coordinating the programme, which I performed until the end of 2002. In 2003 I took up a position as a postdoctoral fellow under the GOOT scholarship at UCT. As part of the programme I spent six months in Parma University in Italy as a research fellow. At the end of 2004 I returned to the University of Limpopo. In June 2005 I joined the mainstream chemistry department at the same University where I am currently serving as an Associate Professor. My time at Rhodes instilled a strong sense of discipline and love for research. In addition, at Rhodes I met a lot of people who have become permanent friends, colleagues and mentors.'

Computer Science

Introduction

A sound grasp of the fundamentals of Information and Communication Technology (ICT) has become essential to life in the 21st century. This rapidly advancing field offers many exciting career opportunities. Beyond equipping you thoroughly with the essential skills and knowledge you will need to thrive in this exciting industry, studying Computer Science puts you in a position to shape the ways knowledge impacts on the lives of people in both technologically sophisticated societies and the developing world.

We invite you to take advantage of attending one of the finest universities in Africa for getting to grips with ICT as it evolves in its many aspects. Seize the opportunity of studying in our hi-tech Hamilton Building alongside our versatile robotic mascot, Hamilton.



Academic Staff

Professor and Head of Department
GC Wells, MSc(Rhodes), PhD(Bristol), MICS, MACM

Professors
SD Bangay, PhD(Rhodes), MACM
PD Terry, MSc(Rhodes), PhD(Cantab), FICS, MACM
A Terzoli, Laurea in Physics(Univ of Pavia)
EP Wentworth, PhD(UPE), FICS, MCSSA, MACM

Associate Professor
RJ Foss, BSc(Natal), MSc(UNISA), PhD(Rhodes), MACM

Senior Lecturers
KL Bradshaw, MSc(Rhodes), PhD(Cantab), MACM
BVW Irwin, MSc(Rhodes), MACM

Lecturers
BCC Biko, BCom, BEd(Rhodes), MACM
ML Halse, MSc(Rhodes)
HE Thinyane, BA(Adelaide), BSc (Adelaide),
PhD(South Australia)MACM
MK Wright, BSc(Hons)(Rhodes), MA(Cantab), MSc
(Rhodes) MACM

Visiting Professor

D Riordan, BSc(Rhodes), MSc(UPE), PhD(Carleton).

Why Study Computer Science?

Information and Communication Technology is transforming the way our economy works, how we interact socially and culturally, and it is continually changing the kinds of understanding graduate professionals require in their everyday working lives. Knowing which key to hit on the keyboard is only the beginning. You need to have an understanding of the nature of technologies and how they are developing, so that you can anticipate their impact on your personal and working life, and on the lives of those you manage or supervise. You need to develop the kind of technological imagination that uses innovation for the benefit of humanity. Naturally, the more knowledge you have about Information and Communication Technology, the more you will be able to exploit its power and anticipate its social effects. It is fully accepted today that graduate professionals entering the job market must have strong computing skills.

Undergraduate Computer Science Curricula

Computer Science 1

Computer Science 101 is the first course for students who intend to continue with either Computer Science or Information Systems. The course introduces you to a modern computing environment, and offers an accelerated introduction to core computer literacy skills such as office tools and networking. It also provides an in-depth introduction to problem-solving techniques and principles with a first taste of both Information Systems and graphical and mobile programming using Python.

Computer Science 102 takes a more in-depth approach to computer programming with the use of another high-level language, Java. Topics include algorithms, programming design principles, data structures, and an introduction to graphical programming.

Computer Science 1L1

The Introduction to ICT, known as CSc1L1, is a non-continuing course intended for students who require computing principles and skills to support their activities in other disciplines. It is suitable for students who have no previous experience with computers.

Topics include an introduction to the fundamental concepts and applications of hardware, computing environments, editing and word processing, spreadsheets, databases; to other software packages, networks, the Internet, social issues, and the logic of problem-solving.

Computer Science 2

CSc201 and CSc202 introduce students to more advanced areas of Computer Science and are devoted to foundational computing and system design concepts. Some of the modules are:

- Machine organisation and low-level programming
- Advanced data structures and data abstraction
- Object oriented principles
- Advanced programming concepts
- Object oriented programming
- Designing for Windows systems
- Database theory and query languages
- Theoretical foundations of computing
- Modelling

Computer Science 3

CSc301, CSc302 and CSc303 include systems programming, systems analysis and an introduction to compiler theory. CSc303 is an optional module including web and game development. Some of the modules are:

- Object oriented analysis and design
- Theory and implementation of computer languages
- Formal aspects of Computer Science
- Data communications and computer networks
- Functional programming
- The theory and practice of operating systems
- Web programming
- Game Development

The department emphasises practical sessions, with 3-hour weekly practicals at a computer station throughout the undergraduate curriculum. The Hamilton Building is fortunate to have its own fast network supported by an excellent technical section.

BSc(InfSys) and BSc(SofDev)

Computer Science forms an integral part of the specialist degrees BSc(InfSys) and BSc(SofDev). The BSc(InfSys) degree is a three-year degree program, which allows students to study Computer Science together with a carefully selected combination of supporting science and commerce subjects. The BSc(SysDev) degree is a new, 4-year professional qualification that prepares students for careers as software developers or software engineers. It comprises a combination of Computer Science and Information Systems courses with other appropriate science and commerce topics.

Graduate programmes

The undergraduate programme is rounded out by the

Honours degree which prepares students to specialise in Computer Science and offers a wide variety of options from computer security, to parallel processing, computer graphics and programming in a mobile environment. Honours is essential for people who wish go on to research degrees or who wish to proceed overseas (either for employment or for further study). The Honours program offers a combination of course work and supervised project work.

The department hosts a strong postgraduate school preparing MSc and PhD students. Work is particularly concentrated in the field of distributed multimedia, for which Rhodes is sponsored as a Centre of Excellence by Telkom, Converse, Tellabs, Stortech, Mars Technologies, Amatele Telecommunication Services, Bright Ideas Project 39 and the Department of Trade and Industry.

Career Opportunities

Undergraduate courses leading to a degree in Computer Science are orientated towards general problem solving with the use of information technology. Courses set out to educate a spectrum of graduate professionals, ranging from leaders and specialists in Computer Science to IT-orientated practitioners in other fields, equipped to meet the future computing needs of their disciplines.

Job opportunities for Computer Science graduates are currently excellent, with many more job opportunities in South Africa than there are graduates. Thanks to high-quality ICT education, Rhodes graduates often rise rapidly through the ranks, from programmers and systems analysts to specialist and management levels, throughout the broad scope of the IT job market. Many Rhodes graduates choose to use the entrepreneurial aspects of the subject to open their own businesses or set up consultancies.

Important Issues

To study Computer Science as a major subject at Rhodes University, you need to have Maths at a rating 4 or above, or Maths literacy at a rating of 6 or above. You do not need to have studied Computer Science at school, nor do you require detailed knowledge of computers, though any prior ICT exposure you have had will help you.

The Computer Science literacy course (CSc 1L1) has no maths entry requirement, and accepts that you may never have used a computer before.



Drama

Theoretical inquiry, creative application, experiential participation – these are the hallmarks of the Rhodes Drama courses. At Rhodes Drama, the theatre is a creative site for investigation, innovation and industry; a LABORATORY in which to encounter – through appreciation, making and performing – the multifaceted nature of theatre.

Rhodes Drama is regarded as a leading department in the country generating original and acclaimed theatre works and performance styles, as well as contributing to knowledge, development and education about theatre in South Africa.



The vibrant "choreopoem" on the experiences of African-American women, Ntokoza Shange's *For colored girls who have considered suicide when the rainbow is enuf*. Directed by Heike Gehring (2005). Photo by Elsabé van Tonder.

Academic Staff

Professor & Head of Department

GE Gordon, BA (Hons)(Natal), MA (CNA, Great Britain)

Associate Professor

AF Buckland, BA (Hons)(Rhodes)

Senior Lecturers

J Finestone-Praeg, MA (Rhodes)

AEM Sutherland, BA (Hons)(Hons)(Natal), MEd (Rhodes)

Lecturers

H Gehring, BA (Free State), MA (UCT)

A Krueger, PhD (Pretoria)

Why study drama?

Drama provides training in the creative and technical skills associated with theatre: acting, dance, design, directing, mime, physical theatre,

stage management, theatre administration and voice. On a personal level, drama also encourages growth, self-esteem and confidence by developing communication, interpersonal and collaborative skills – essential life skills for all careers.

A study in drama cultivates practices that are artistic, critical and collaborative. These practices lie at the core of the drama curriculum and provide exciting opportunities for future career developments.

Career opportunities

Graduates from the department work as performing artists, teachers, theatre administrators, choreographers, lecturers, performer-creators, stage managers and workshop leaders; others work in film, television, creative arts therapy, industrial theatre, advertising, community development and arts journalism – and one or two are even in Hollywood!

Undergraduate fields of study

Communication Skills: Extending vocal communication, dynamics and expression through public speaking, social interaction and the interpretation of poetry, prose and drama.

Contextual Studies: Investigating developments in the theatre using play texts, theatre history, contemporary trends, critical writings, video and live performances, and performance theories.

Applied Theatre: Exploring the use of drama and theatre in education and development. Students devise and workshop programmes using participatory drama in schools and community centres.

Performance Studies: Experiencing the diverse techniques employed in contemporary theatre, such as:

Acting: Improvisation, characterisation, group dynamics and textual interpretation.

Dance: African dance, contemporary dance,

dance theatre, composition, release techniques and partnering.

Directing: the role of the director in theatre productions, including conceptualisation, co-ordination, rehearsal processes and creative realisation.

Mime: classical and contemporary mime, clowning, physical comedy and integrating vocal expression with movement.

Physical Theatre: body awareness, contact improvisation, release techniques, vocal dynamics and personal explorations.

Theatre Design: Imagining the visual aspects of performance through make-up, masks, stage properties, set, costume and lighting.

Technical Skills: Constructing and operating the practical elements of theatre: sound, lights, stage management, wardrobe and set.



Marlboro Country

Written and Directed by Emma De Wet Byron Davis and Chiminae Ball.

Photographer Micheal Dexter.

Features of these courses

Contemporary Performance in which third year students devise and present site-specific theatre projects in and around Grahamstown.

Theatre Making in which first year students collaborate to construct and perform a workshopped theatre event.

Physical Theatre in which second year students as performer-creators articulate an intertextual theatre event using movement, voice and design.

Specialist Options in which third year students can select from: acting, applied theatre, dance,

theatre design, directing, stage management, contemporary performance, choreography.

Graduate programmes

BA Honours in Drama

The department offers the greatest range of papers in the country. Students select five papers from the following options:

- Theatre Studies (compulsory)
- Dramatic Literature
- Theatre in Africa
- Dance History
- Dance Culture and Education
- Voice and Speech
- Applied Theatre
- Directing
- Choreography
- Creative Writing for the Theatre
- Physical Theatre
- Theatre Design
- Contemporary Performance
- Acting

Masters in Drama

Creative endeavours and research are central to the study programme, aimed at building on the mature abilities, experiences and interests of theatre scholars, educators and artists.

By Coursework

Each candidate produces a major production or project in one of the following areas of specialisation:

- Applied Theatre
- Choreography
- Contemporary Performance
- Educational Drama and Theatre
- Creative Writing for the Theatre
- Directing
- Design for the Theatre

In addition, candidates submit research papers for two contextual courses: a compulsory Performance and Theatre Studies course, and a course related to the chosen specialisation. The course is completed by the submission of a short thesis.



Renowned actor Andrew Buckland in *Fuse* with graduates Daniel Buckland and Mongi Mthombeni, 2004. Photo by Lisa Skinner.

Associated projects

Hands-on experience in the best of professional artistic, technical, educational, administrative and community-based practices. The department hosts a number of projects for students, staff, graduates and professionals, including:

First Physical Theatre Company: the top National Arts Council funded professional physical theatre company in the country, with an international reputation.



First Physical Theatre Company in *The Unspeakable Story*, by Gary Gordon, a work of 'sustained creativity & cohesive conceptual brilliance' (*The Star*). Photo by Elsabé van Tonder.

Ubom! Eastern Cape Drama Company: a professional drama company with graduates and community performers, fuelling the province with much needed theatre skills and building arts audiences with both educational productions and work of artistic excellence.

Graduate Profile: Zingi Mkefa

1998

My first year at Rhodes. Enrolled for Journalism and Music. The head of Music encouraged me to enrol in Drama. Thinking I could always drop it if I didn't like it, I enrolled. I fell in love with life in the department.



Zingi Mkefa in 2003. Jomba! festival in Durban. Photo: Elsabé van Tonder.

I learnt not only about the dramatic arts, but it was the only course that nurtured me as a human being.

In August I composed music for a Master's Choreography student. I had studied music all my life but had never written music for dance before. So successful was the result that we performed the following year at the

1999

I was selected to be a television presenter for programming during the National Arts Festival, filmed and broadcast by Journalism students. I relied on my knowledge and skills acquired in Drama to do my own research, write my own script, and draft my own questions, to interview leading national and international artists.

That year I also joined the First Physical Theatre Company in *Dunes*. The process of making this dance work by Gary Gordon inspired me to look at the world in a way I never had before.

2000

I collaborated in an important work with First Physical, *Bessie's Head*. This experience is one I often look back to when writing about dance for newspapers today.

I created my first important work, *x_number of days*, based on the circumcision ritual I had experienced that year. It was amazing to have an academic department accommodating the expression of such a crucial, personal experience as a valid part of my development.

2001

A year of specialisation in the department of Journalism.

2002

Honours Drama. This was undoubtedly the most challenging year.

2003

Worked full-time with First Physical until July. Was headhunted to write on the arts for a new national daily newspaper, *ThisDay*. I moved to Johannesburg. I now write for the *Sunday Times*.

In recent years, I have been invited to be a member of judging panels for the Naledi Awards and the MEC's Contemporary Dance Awards, and an external examiner for Tshwane University of Technology's dance department.

I was commissioned by the SABC to make a documentary on the 30th anniversary of Soweto's student uprisings of 1976, co-directing with a former drama classmate.

In 2007 I was awarded a Fullbright scholarship and completed a Masters Degree in Cultural Criticism at New York University. I am now working as the Arts Editor for the *Sunday Times*.

Graduate Profile: Lindiwe Matshikiza

Lindiwe Matshikiza graduated from Rhodes University in 2004 with a first class Honours degree. Her Honours course consisted of Contemporary Performance, Directing, Dramatic literature, Physical Theatre and Theatre Studies. She performed in her first professional theatre production during her third year at Rhodes Drama, the controversial **Thuthula: Heart of the Labyrinth (2003)** in which she played the title role. After graduating with a first class Drama Honours degree, she went on to be a performer and facilitator with **AREPP: Theatre for life**.

In Cape Town, she performed in two Nicholas Ellenbogen plays before entering into a two-year working relationship with writer-activist Mike van Graan. Her first play with him – **Mixed Metaphors (2006)** – earned her a Naledi Award nomination for her performance as the

lead character. She then went on to perform in Graan's one-hander **Bafana Republic** through 2007 and into 2008. Her performance produced much critical acclaim, nomination from the Naledi, the Fleur du Cap, Aardklop and South African Comedy Awards, and a South African Comedy Award for Best One-Person Performance. 2008 saw her first major television role in the BBC series **Silent Witness**, as well as her biggest directing project to date: Amiri Baraka's **Dutchman** at the **Market Theatre Laboratory** as part of the **Flare Young Female**



Lindiwe Matshikiza in a solo contemporary performance work about obsessions, for Drama Honours, 2004. Photo by Guy Nelson.

Directors's Programme.

Lindiwe also directed for **AREPP**, is currently assistant director for the **Actor's Centre's** production of **Dr Faustus**, and directed the one-hander **Recess** which opened at the **National Arts Festival 2007** and is going to be performed in New York City. She was named one of the Top 100 Young South Africans in the Mail and Guardian's Youth Month edition. She will be performing in **The Jungle Book** at **The Market Theatre** at the close of 2008, and continues to run drama workshops around the country.

Productions and artists in residence

A range of productions is presented each year, including traditional and contemporary play texts, new theatre works, dance-theatre,

children's theatre, physical theatre, educational projects and mime. Undergraduate student initiative is encouraged by the department's own festival, Innovations.

The department also participates extensively in the National Arts Festival, Regional and National Schools' Festivals, the FNB Dance Umbrella, and various events on the new festival circuit.

Professional theatre practitioners make a dynamic contribution to the performance programme. Workshops, classes and performances are offered by visiting South African and international artists.

Original theatre works created by staff members Andrew Buckland, Juanita Finestone, Gary Gordon and Reza de Wet affirm the department's commitment to initiating creative research and endeavour within South African theatre.

What do I need to know?

Building up a degree curriculum

Drama can be taken as a major subject for the Bachelor of Arts degree. Three courses are offered at undergraduate level: Drama I, II and III.

- One or more of these courses may be included in the curricula of students studying for the Bachelor of Journalism, Bachelor of Fine Arts, Bachelor of Social Science or Bachelor of Music degrees.
- The department also offers an alternative route in third year to a BA Honours in Drama.

Applications and further information

- Further information on the department may be found on our web site at: <http://www.ru.ac.za/drama>
- Visits to the department can be arranged with the secretary:
Ms Vusiwe Mnyobe
Drama Department
Rhodes University
Box 94
Grahamstown
6140
Telephone: (046) 603 8538
Fax: (046) 603 8978
e-mail: V.Mnyobe@ru.ac.za
- Details of degree structure and requirements, and general information about the University, may be obtained from:
The Registrar
Rhodes University
Box 94
Grahamstown
6140
Telephone: (046) 603 8214 / 603 8276
e-mail: registrar@ru.ac.za
- Visit the web site of the First Physical Theatre Company at: <http://www.ru.ac.za/firstphysical>
- Visit the web site of Ubom! Eastern Cape Drama Company at: <http://www.ubom.co.za>

Economics & Economic History

Studying Economics at Rhodes allows specialization in career-focused choices to become an Economist in cutting edge occupations such as banking and the financial markets, growth and development, the public sector, economic forecasting and planning, international trade, finance and policy affairs as well as the labour market and environmental economics.

Economics is a study of the way that people behave in producing and consuming, how economics and markets work and what happens when governments act to influence economic events.

Economics I can be taken as a stand-alone course. The main topics covered are an introduction to the market system and price determination; consumer behaviour, competitive and monopolistic firms; national income accounting and fiscal policy; money, banking and monetary policy; and international economics.

Economics II covers intermediate micro and macro economics, building on the first year foundation including market structure, general equilibrium, asymmetric information (micro) and the ISLM model, inflation and unemployment, money and monetary policy, the budget and physical policy, internal and external balance and the growth debate in South Africa (macro).

Economics III consists of four half-credit course modules from the list under Economics III. Students registered for both Economics III and Economics IIIB would take six course modules.

Economics IIIB consists of two half-credit course modules from the list under Economics III. Students registered for both Economics III and Economics IIIB would take six course modules.

Econometrics is recommended for students planning to do honours.

Economics Honours consists of a research project plus eight course modules from: Mathematical economics, macro-economics, econometrics, monetary economics, growth and technology, financial economics, labour economics, development economics, environmental & resource economics, economic history, international finance, public finance, industrial organisation.

Honours electives can be combined for a focused career as an economist in the following fields: Economic growth & development; banking & financial markets; public sector; economic planning/forecasting; international economic affairs and labour economics.

Econometrics is recommended for students planning to do master's.

Master's degrees in economics can be completed by dissertation by students wishing to pursue a clearly defined field of research.

A **Master's degree in Financial Markets** by coursework and dissertation is also offered. This degree is aimed specifically at a specialised career in the financial/banking sector. The course modules are structured with the above career in mind and are: Dissertation, Financial Institutions & Regulation, Quantitative techniques in the financial markets, Debt & Foreign Exchange Markets, Equity & Derivative Markets, Portfolio Theory & Management.

A **PhD in Economics** is offered by research thesis.

Academic Staff

Professor and Head of Department

H Nel, BCom, HEd(UOFS), DCom(UPE)

Professors

GG Antrobus, MSc(Agric)(Natal), PhD(Rhodes)
ACM Webb, MA, PhD(Rhodes)
GG Fraser, PhD(Stell)
O Akinkugbe, PhD(Baan)

Associate Professors

JD Snowball, PhD(Stell)
G Keeton, PhD(Rhodes)
MJ Aziakpono, PhD(UOFS)

Foord Chair in Investments

AP Faure, PhD(Stell)

Visiting Professor

XP Guma, PhD(Manchester)

Senior Lecturers

NS Cattaneo, MSc(Rhodes)
TE Mutambara, PhD(Rhodes)
C Mbatha, PhD(Rhodes)

Lecturers

G Lubczonok, Masters(Jagiellonian), PhD(Silesiaen)
DCA Fryer, MSc(Natal)
E Seedat, MEc(Western Australia)
Z Chinzara, MCom(Rhodes)

Education

WHY EDUCATION?

Education is one of the most dynamic fields in tertiary study today, chiefly as a result of the growing realisation that it is through education that social and political values may be translated into democratic and equitable practice. Increasingly education is seen as the vehicle for transformation of societies characterised by inequity and privilege. The worldwide move towards education systems that provide access to all, recognise and accredit prior learning, establish realistic and demonstrable learning outcomes that attempt to make the learning and assessment process more transparent and prepare students for lifelong learning, is mirrored in recent developments in education at national level, notably the implementation of Curriculum 2005 and the RNCS with its theoretical underpinning (Outcomes Based Education). This initiative has put the spotlight on education as a discipline for renewed academic and professional investigation.

Internationally the past few decades have been characterised by dramatic and challenging developments in education theory. The shift away from behaviourist theory and practice towards critical constructivism has presented educationists with fresh challenges. Naturally the need to achieve internationally recognised standards in learning, teaching and research would be an imperative for all education faculties. In South Africa, however, this imperative needs to take cognisance of and embrace the inequities that exist within our system as a result of our political past. The particular challenge for education in South Africa, then, is to push the boundaries of cutting edge thinking and practice while at the same time addressing fundamental baseline needs. How this translates into practice is the essential business of this department.

WHY EDUCATION AT RHODES?

The Rhodes University Education Department features prominently in national and international academic initiatives. We have established firm research and policy links with countries such as Namibia, Australia and Denmark. Some of

our programmes are offered jointly with our SADC neighbours, and we are exploring ways of extending this collaboration. Numerous individuals within the department have made significant contributions to teaching, research and policy development. Two of our eighteen permanent staff members have won distinguished teaching awards. Three have been centrally involved in standards generating and curriculum streamlining work at a national level. Various individuals are frequently approached to conduct programme evaluation, ranging from small scale intervention programmes to national and international initiatives. Two are editors of accredited journals. Thus it would be fair to say that the Department enjoys prominence both nationally and internationally.

Housed within the Department is the MIST Research Support Centre, set up in 2002 through the generous sponsorship of the Carnegie Foundation. This centre is aimed at the support and development of research in and at the interface of Mathematics, Information and Communication Technology, Science and Technology Education.

Also housed within the Education Department is the newly established FRF Mathematics Education chair.

Through partnerships with educational NGOs – such as RUMEP, the CSD and ISEA – the Department has been able to broaden its delivery of in-service programmes.

Other areas of strong interest and developing expertise include Environmental Education, English Second Language, Education Leadership & Management, Mathematics Education, Technology Education and General Education Theory and Practice. Three of these fields are the focus of Master's programmes delivered both locally and in Namibia. The Department has developed a strong and reputable Research Methods course. Essentially a short course, it caters for Master's and PhD students, and is offered twice a year. The course attracts students from across Africa and neighbouring islands such as Madagascar and Mauritius.

The fact that this Department continues to enjoy high enrolment is due partly to developments such as are outlined above. But another significant reason why we are still forced to turn away large numbers of applicants is due to the quality of the model we have adopted and developed over several years. Our approach is characterised by small classes, high intensity contact (both on and off campus), flexible and learner oriented programme design and delivery, and an emphasis on practice informed by current research and theory. We strive in everything we do to encourage reflexive practice among our students, since it was precisely the absence of critical engagement that has left this country's education system in the precarious position it is in today. Personal professional growth, through creative and critical engagement with theory and practice is our bottom line, and the department is structured and managed in ways which enable and encourage development towards this vision.

WHAT IS ON OFFER?

The Department works chiefly across the top three levels of the National Qualifications Framework. At level 6 we offer two Postgraduate Certificates in Education in a wide range of school teaching subjects, and Advanced Certificates in Education (senior / FET and intermediate phase) in a variety of fields: Education Leadership and Management, English Language Teaching, Mathematics, Information Communication Technology (ICT), Science, Technology, Environmental Education, and General Education at the Foundation, Intermediate and Senior phases. At level 7 we offer the B Ed Honours course, both locally and in Namibia. At level 8 we offer Master's degrees in English Second Language, Environmental Education, Education Leadership & Management, Mathematics, ICT, Science, Technology and Education, and General Education Theory and Practice. We also supervise doctoral students at this level, and generally receive far more applications than we can cope with.

All of our qualifications are recognised worldwide. The Postgraduate Certificate in Education, for example, is routinely required by education authorities in the UK as a recognised licence to

teach. Many of our newly qualified teachers now elect to teach abroad, usually for a few years, to take advantage of earning in more powerful currencies.

FACILITIES AND OPPORTUNITIES

The drawbacks of being centred in a small and fairly remote town are more than compensated for by huge advantages. The Rhodes campus is a perfect setting for the kind of work we do, since it is small and thus enables a high degree of personal contact and support. Since most



of our work is with part-time students, the campus serves as a gathering point for students from southern Africa. Fortunately, the town offers many accommodation opportunities at reasonable rates. University residences are also available at times.

The Department has its own library, a well-equipped computer laboratory, and a range of teaching venues which facilitate both lecturing and workshopping activities. The library is linked to the Main Library, and all facilities are

fully networked so that electronic searches are both quick and easy. We also have a well-equipped workshop for Technology, and an impressive resource room for Environmental Education. A similar resource centre for MiST is being developed.

We also enjoy excellent relations with the large number of schools in Grahamstown. This is an important matter for us, since so much of what we do is for, with and through schools. The fact that one small town can offer the full range of schools – from the privileged independent to the crudely underresourced farm school – is of huge advantage to us. We collaborate very closely with many local schools in the important task of mentoring pre-service teachers into the profession. As new ways of allowing access to teacher development are explored – such as learnerships – these relationships are likely to strengthen even further.

WHERE DO YOU GO FROM HERE?

The notion that a qualification in education necessarily prepared one for classroom teaching only is now entirely outdated. Clearly classroom teaching needs to remain a priority, and will remain the focus of much of what we do; but clearly our courses also equip graduates for opportunities in non-formal, commercial and industrial education sectors. The renewed emphasis on ongoing personnel development, and recent legislation on the Skills Levy Act has alerted institutions to the need for personnel who are competent teachers/trainers. We already work on qualifications frameworks other than formal education, such as in the Goldfields Environmental Certificate Course which caters also for people in industry and business.

Naturally our courses also prepare students for opportunities in research, evaluation, programme and materials development, and education policy renewal. These ever growing fields of interest are increasingly becoming viable options to following a formal teaching career, and point to a niche for education entrepreneurs. The number of graduates who elect to find a career in project management, evaluation, materials development and other forms of consultancy seems to be growing

almost daily. Our courses are well placed to build capacity for these activities.

WHO CAN YOU TALK TO?

The names of academic staff members and their subject areas or fields of interest are listed below. All of these may be contacted through email, or the departmental telephone number (046-6038383):

Prof George Euvrard: Dean of Education
Psychology in Education, Life Orientation
G.Euvrard@ru.ac.za

Prof M Schäfer: Head of Department
Mathematics Education
M.Schafer@ru.ac.za

Dr Di Wilmot: Deputy Head of Department
Geography and general education
D.Wilmot@ru.ac.za

Prof Hennie van der Mescht
Education Leadership and Management,
English
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Prof Pat Irwin
Research methodology, Environmental
education and evaluation
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Prof Heila Lotz-Sisitka
Murray and Roberts Chair of Environmental
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Prof Rob O'Donoghue
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Ms Sarah Murray: Senior Lecturer
English second language
S.Murray@ru.ac.za

Ms Lise Westaway: Senior Lecturer
Intermediate Phase Education
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Dr Bruce Brown: Senior Lecturer
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English

The Department of English at Rhodes University offers a range of courses in the study and critical appreciation of literature in English.

Why Study English?

When you study literature you encounter life in a uniquely intense – if indirect – way: through the medium of language (as the poet Ezra Pound put it) 'charged with meaning to the utmost degree'. In the complex verbal representations that we call literary works, the best minds have down the centuries sought to give significant form to human experience, and have in the process provided us with an endlessly fascinating archive of creative endeavour. Studying English will not only ensure that reading becomes a lifelong source of pleasure, but will also enrich your response to every aspect of your life.

To study English is of course not in the first instance to train for the job market. Nevertheless, learning how to engage productively with the special logic of literary meaning (a process that involves both imaginative thinking and rigorous analytical skills), to argue cogently and to write clearly, is to acquire a comprehensive mental training that is valued, even required, in numerous fields of employment. English graduates enjoy successful careers in teaching, writing, journalism, radio and television, publishing and editing, public relations, law, politics, advertising, as well as a whole range of managerial roles in the commercial, corporate and public sectors.

Why Study English at Rhodes?

- Unlike many other South African universities, Rhodes has not taken the undergraduate 'programme' route, which tends to involve interdisciplinary study within relatively narrow thematic boundaries (e.g. Gender Studies). Nor has the English Department blurred its focus by incorporating into its syllabuses 'media studies' or 'communication

Academic Staff

Professor Dirk Klopper (Head)
 Professor Gareth Cornwell
 Professor Michael Marais
 Associate Professor Dan Wylie
 Dr Margot Beard
 Dr Deborah Seddon
 Ms Sue Marais
 Ms Bridget Grogan

studies' (at Rhodes these subjects form part of the Journalism curriculum). This means that English at Rhodes remains a flourishing, independent academic discipline, and that the Department can produce graduates of international quality equipped for further study abroad;

- The Department of English at Rhodes has stable student numbers at both undergraduate and postgraduate levels, and offers a flexible curriculum responsive to students' needs and inclinations;
- The Department is well known for its tutorial system, involving small group teaching that fosters intensive discussion, the nurturing of individual thinking and co-operative learning;



- Throughout the undergraduate years, the Department's teaching strategies emphasize the traditional skills of close reading and interpretation. At the same time, the works studied are thoroughly contextualized in historical and artistic terms;
- The syllabus offers a fine balance of the traditional and the contemporary, the local and the foreign, the mainstream and the alternative;
- The Department seeks as far as possible to accommodate students' individual needs, problems, and interests. The relatively small size of English classes, especially from the second year, make for an intimate and friendly atmosphere in which activities like poetry readings and research presentations flourish;
- The Department has its own purpose-built building right in the centre of the campus, adjacent to the university Library. Its features include a particularly well-equipped audiovisual library and state-of-the-art AV equipment;
- Lecturers in the Rhodes English Department are highly qualified and have for many years enjoyed a solid reputation internationally for teaching and research.

What is on offer?

English is a three year major subject for the Bachelor of Arts degree. A major in English involves no other compulsory subjects, and combines well with other Humanities courses, including Fine Art, Music, Law, Psychology, Philosophy, Journalism, Drama, Linguistics, and other languages. From the second year onwards, a range of possible paths and combinations is available to cater for different interests.

Undergraduate Courses

English I

The first year course introduces students, via lectures and tutorials, to examples of the major literary types and ways of reading and

understanding them. Texts are grouped in modules according to historical period and context: currently these modules comprise The Renaissance: Revolution in Art and Knowledge; Romantic Rebellions: the Birth of the Modern; Overthrow: From Colonialism to Postcolonial; and Going Global: Modernism to Postmodernism. In addition to formal essays, students gain practice and instruction in writing by submitting brief weekly exercises to their tutors.

English II

Students taking English II consolidate and extend the knowledge and skills acquired in English I. Most of the texts are grouped according to historical periods, so particular emphasis is placed on interpreting the literature in relation to its contexts. Students will take four of the following papers: Renaissance Literature; Romantic Literature; Modernist Literature, Postcolonial Literature, and South African Literature.

English III

In English III, students are encouraged to develop a greater self-consciousness about their own practices as readers. This entails a more sophisticated understanding of the conventions by which texts produce meaning; an acquaintance with some of the major theories which inform the ways we read and interpret literature; and increasingly independent inquiry. Students take four papers, two in each semester. Three of these papers are taught through lectures and tutorials, while the fourth is a small-group seminar Elective. The general papers currently on offer include Renaissance Literature, Modernism, The English Novel, New Literatures in English, and American Literature. The reading and discussion based Elective papers tend to be more focused and specialized, and the approximately eight on offer will vary from year to year.

Combined English Studies

Students who have completed both English I and English Language and Linguistics I can go on to Combined English Studies II, which comprises two papers from English and two papers from Linguistics. Students may then proceed to Combined English Studies III, with

a similar choice of literature and linguistics papers. This is especially useful for prospective English teachers.

Postgraduate Studies

A fourth year course, English Honours, provides the opportunity for further classroom-based study, with students choosing five from a range of papers on offer. Students may also write a long research essay in place of one of these papers.

With a generous range of interests and expertise among its staff, the Rhodes English Department also offers excellent opportunities for advanced study leading to the degrees of MA and PhD by dissertation. There is a strong research culture in the Department, especially in the field of South African literature, which is supported by the proximity of the Institute for the Study of English in Africa and the National English Literary

Museum, the primary documentation centre in the world for southern African writing.



Further Information

For more information, see the Department's web page at www.ru.ac.za/academic/departments/english. Contact the Secretary, Carol Booth, at tel. 046-603 8400, or e-mail c.booth@ru.ac.za.

English Language & Linguistics

Housed in the beautiful and historic Drostdy Barracks, the department offers a varied and interesting course in general linguistics, which aims for a balance between theoretical issues and 'real' language issues, focussing on English in its Southern African context.

ACADEMIC STAFF

Professor and Head of the Department

Ralph Adendorff: BA (Hons), HDE (Rhodes), MA (Indiana), PhD (Natal)

Senior Lecturer

Ron Simango: BA (Malawi), DipTESOL (Manchester), MSc (Edinburgh), Phd (S Carolina)
Mark de Vos: BJourn (Rhodes), MA (Tromsø), PhD (Leiden)

Lecturers

Ian Bekker: BA (Hons), MA (Unisa), PHD (North-West)
Sally Hunt: BJourn, MA (Rhodes)

For further information:

<http://www.ru.ac.za/academic/departments/linguistics>

LINGUISTICS AT RHODES UNIVERSITY

What is Linguistics?

Language is involved in and helps to shape most of our major concerns as people. Linguistics explores language in all its manifestations and examines all these links between language and human life. Our Linguistics course is designed to meet the educational needs of anyone involved in language and communication. The course is designed to guide students in the exploration of language in its changing context in the light of contemporary linguistic theory.

Why study Linguistics?

Linguistics will give you useful insights into how people communicate, how people acquire and learn languages, how they use language, how to teach languages, how language is structured and how languages change and develop in society. A training in linguistics will also be very relevant to your career if you plan to specialise in journalism, education, law, computer science or psychology. You **don't** need to know a lot of languages to study linguistics, but you do need a

fascination for language and a basic competence in English.

ENGLISH LANGUAGE, LINGUISTICS AND YOUR CAREER

The best reasons for doing English Language & Linguistics are some initial interest in language and the feeling that you are likely to enjoy the course. In addition, a training in this field is highly relevant to a number of careers, because there is an urgent need for language expertise and understanding of communication in a changing South Africa. Linguistics will be really useful in the following careers, below the label of which we list aspects of our courses that are relevant:

For professionals of all kinds

- How to think critically and abstractly
- How to analyse complex problems and decompose them into smaller issues
- How to evaluate and integrate large amounts of information
- How to attend to detail.

For the Language Teacher ... and Language Learner

- The world of language teaching
- Teaching English in foreign countries
- Teaching and learning languages in SA
- Introduction to Japanese
- Introduction to Sign Language
- Issues in literacy education and critical reading
- Language-in-education policies in SA
- Language learning problems and solutions

For the Lawyer

- Understanding nuances, meanings and structures
- Writing about law in plain language
- Decoding ideologies in discourse
- Language planning and language policy activities
- How language and power are related

For the Linguistic Researcher

- What counts as a grammatical sentence
- What languages share and how they differ from one another
- Why accents differ from each other

- What counts as a dialect and why dialects evolve
- What the value is of studying pidgins and creoles
- How language, ideology and power are related
- How one learns a second language
- Introductions to Japanese, Sign Language and Russian
- How English varies today

For the Psychologist ... and Sociologist

- How we acquire a first and learn a second language
- Language disorders (e.g. stuttering, aphasia)
- What the rules are for combining sounds
- How we communicate meanings to each other
- How we know the 'rules' of conversation
- Why the language of men and women differs
- What distinguishes the language of subcultures and minority groups
- Why intercultural communication is often tricky
- The relationship between language, ideology and power

For the Journalist ... and Writer

- What the hallmarks of effective writing are
- What makes newswriting distinctive
- The language of literary texts
- Textbook writing
- Humour and language
- The language of advertising
- Critical language awareness

UNDERGRADUATE COURSES

English Language & Linguistics is a three year major for Humanities, Science, Commerce and Law students. The course is designed to take into account the needs of students involved in the broader issues of language and communication. It is also recognised as a teaching credit if taken in combination with one course in English Literature, in the English Department.

FIRST YEAR CURRICULUM (ENL1):

Phonetics and Phonology: Phonemic and phonetic description and transcription,

with a focus on South African English. *Sociolinguistics: Varieties of English Today*: Standard English, language and gender; naming practices, etc.

Syntax: Structures and the Sentence: simple phrase structure rules; grammatical functions.

Psycholinguistics: Language Acquisition and Learning: theories of language acquisition; acquisition sequences, child-directed speech; learning to read; language socialisation.

Semantics: an introduction to the basic meaningful units in language; meaning in the mind.

Discourse Analysis: Grice's maxims; speech acts; conversation analysis; discourse across cultures.

Language Typology: introduction to aspects of the grammar, sounds and socio-cultural norms of Japanese.

Texts: analyzing texts in terms of their functions and ideologies: news, popular fiction, soap operas, etc.

SECOND YEAR CURRICULUM: (ENL2)

Phonetics and Phonology 2: general articulatory phonetics.

Language Typology 2: an introduction to South African Sign Language.

Sociolinguistics 2: reasons for language variation based on geography, class and social networks.

Psycholinguistics 2: learning and teaching a second language.

Discourse Analysis 2: Conversation Analysis: the collection, transcription and analysis of everyday conversational data.

Systemic Functional Linguistics 2: an introduction to the Systemic Functional Approach to text analysis.

Syntax 2: the lexicon and phrase structure.

Semantics 2: how linguistic meanings are constructed in context.

THIRD YEAR CURRICULUM: (ENL3)

Systemic Functional Linguistics 3: Clause complexes, speaking vs writing, grammatical metaphor, disciplinarity, APPRAISAL.

Sociolinguistics 3: diglossia, pidgins and creoles; code switching, language shift.

Semantics 3: Compositional semantics, theories of reference, tense and aspect.

Syntax 3: X-bar theory, complementation.



Phonetics & Phonology 3: sound systems; phonological processes and rules.

Psycholinguistics 3: Linguistic disorders including stuttering, aphasia & dyslexia.

Critical Discourse Analysis: language, ideology and power; critical language awareness.

Language Typology 3: an introduction to Russian.

Special Features of these Curricula:

** Analysing and learning more about languages that are very different from English: in first year, students do a short course in Japanese and test their new found linguistic skills. In second year, students learn introductory Sign Language, acquiring the basic vocabulary to communicate with the deaf and exploring linguistic and sociolinguistic issues. In third year students are provided with an introductory course in Russian.

** Research Report: third year students research a linguistic topic of their choice drawn from three research themes, guided by a supervisor, and report on their research (e.g. interviews, surveys, ethnolinguistic observation) in an extended essay.

Special curriculum options:

Students who have completed BOTH English Language & Linguistics 1 AND English 1 may register for Combined English Studies II, which consists of 2 papers from English Language & Linguistics and 2 papers from English. The same option applies for third year.

Postgraduate studies:

The department offers a range of theoretical and applied Linguistics modules at Honours and Master's degree levels, allowing postgraduate students to specialise in the main research interests of the department and staff. Master's and PhD degrees by full thesis are also available.

The courses vary from year to year depending on staff availability and interested students are encouraged to consult the department's website for more information or to request a Postgraduate brochure from the department.

Environmental Science

Africa is famous for its rich diversity of plants and animals and spectacular landscapes, its wealth of mineral resources and its variety of peoples. But there are many challenges facing the continent's natural environment: the population is growing fast, droughts occur often, and many rangelands and river systems are degrading. On the other hand, there is also a desperate need for economic development in Africa. Our programmes focus on reconciling the need to protect the environment, and the realities of poverty and economic development.

Join a New Generation of Environmental Professionals

At Rhodes we want to train a new generation of environmental professionals, who understand the challenges of managing the environment wisely while promoting sustainable development.

Our Environmental Science programme aims to arm students with practical professional skills such as environmental planning, procedures for environmental impact assessment and a working knowledge of environmental management principles and procedures. Our approach is to stress critical thinking, teamwork, adopt a systems analysis approach, and develop linkages between social, economic and natural systems. At Rhodes we are lucky to have regular and free access to one of the best outdoor environmental laboratories in the world: the Eastern Cape with its many protected areas, vast tracts of communal land, high biodiversity and its hopes for economic development and jobs.

When leaving the course, our students will be able to

- measure up to international standards;
- think critically about environmental issues;
- use integrated, multi-disciplinary approaches that combine quantitative science with qualitative information;
- communicate well;
- work in teams;
- use system analysis skills;
- Identify solutions at appropriate temporal & spatial scales.

Undergraduate Environmental Science courses

The focus in the core undergraduate Environmental Science major is on providing a broad based, cutting edge overview of local and global environmental issues and problems. The natural, social, political and economic factors which affect the environment are linked to solutions: management interventions, policies and actions that can solve environmental problems. Students are assisted to think critically and use integrated systems approaches. We realize that the main laboratory for environmental science is the world around us, and therefore field work is an important part of the undergraduate and honours courses.

The undergraduate degree consists of the core subject (Environmental Science), which is a two year major, combined with a number of 'parallel' courses in the Biological, Earth and Human sciences. In addition to the 'core' Environmental Science course, first year students must take Geography 1 and at least one of: Anthropology, Botany, Zoology or Geology.

Environmental Science has many sides to it, and students are encouraged to specialise in a particular direction which is dictated by how one combines it with co-majors.



Second year Environmental Science students visiting a commercial livestock and game farm during an afternoon practical

Enviro Science 201: Fundamentals of Environmental Science

- What is environmental science?
- Integrated environmental systems
 - Ecological systems
 - Social systems
 - Economic systems
- Interdisciplinary analysis
- Adaptive renewal
- Stability & resilience
- Influence of spacial & temporal scales

Enviro Science 202: Global environmental Issues

- In-depth analysis of four global issues (varying from year to year), such as: Biodiversity loss; Climate change; Political ecology; Deforestation; Waste management; Land degradation; Nuclear power, etc.
- For each one we apply systems thinking and interdisciplinary analysis to understand:
 - The science behind it, i.e. what it is
 - Causes and the real magnitude of the issue
 - Consequences for ecosystem goods and services and human livelihoods
 - Global policies, responses and options
 - The South African situation

Enviro Science 301: Environmental Monitoring & Monitoring Systems

- The design and implementation of environmental monitoring systems at appropriate scales
- Considers the integration of biological, social and economic components of an environmental system
- Covers industrial, terrestrial and aquatic systems

Enviro Science 302: Integrated Environmental Management for Sustainability

- Emphasis on conceptual and planning frameworks to manage environmental impacts
- Agenda 21
- Integrated development planning
- Sustainability assessment
- Management tools include:
 - Strategic environmental assessment (SEA)
 - Environmental impact assessments (EIA)
 - Environmental management systems (e.g. ISO 14001)



Postgraduate students recording fuelwood usage at Pikoli in the Peddie district, near Grahamstown

- Integrated water resource management
- Applied ecosystem management
- Participatory natural resource management

The Honours Programme

The Honours in Environmental Science can be taken over one year (full-time) or two years (part-time). It provides a common meeting ground for students with different specialities who work closely together. The emphasis is on professional career skills, coupled with a solid theoretical background and top quality research skills. Specified optional modules can be taken in other departments. It consists of three components: 1) a 'core' Environmental Science course where students acquire those hands-on skills which environmental professionals need; 2) a number of 'elective' courses, of which four modules must be selected from options such as: community based natural resource management; biodiversity, non-timber forest products and rural livelihoods; Environmental Impact Assessment; the geography of development water resources management; community and cultural tourism; resettlement and land reform; rehabilitation and disturbance ecology. 3) A research project forms an important part of the course – students are expected to submit their research papers for publication in academic journals.

Postgraduate Research

Postgraduate research (at the Master's and PhD levels) is by research thesis only. Research projects on sustainable resource use, poverty and the environment, sustainable tourism, community biodiversity management, environmental planning, and sustainable livelihoods in rural areas, are particularly encouraged.

Who needs an environmental scientist?

The National Environmental Management Act forces developers to go through formal environmental assessment and planning procedures, and many organizations have come to realize that good environmental planning increases profitability. This, and the recent strong emphasis on wise natural resource use throughout southern Africa, has led to a high demand for environmental professionals. Organizations who employ environmental scientists include:

- Environmental consulting firms: Environmental Impact Assessments are becoming mandatory in most countries, and there is a huge demand for professionals who can lead these.
- Conservation organizations such as parastatal Parks Boards, National and Provincial Conservation Departments.
- Natural resource management agencies such as Departments of Water Affairs, Land Affairs and Agriculture.
- Private corporations such as tourism developers, mining houses, and engineering firms.
- Funding agencies such as the Development Bank of Southern Africa and the World Bank, and national and international aid agencies such as DFID, DANCED, SIDA.
- National and international Non-Government Organizations such as the Worldwide Fund for Wildlife, Birdlife International, the Africa Resources Trust, and the World Conservation Union, as well as local level NGOs involved in sustainable resource use, environmental awareness, rehabilitation, recycling, etc.
- Research institutions such as the CSIR, SANBI, the African Centre for Technology Studies, universities and the International Institute for Environment & Development.

Achievements

Environmental Science grew from one staff member and a handful of students in 1998, to a fully fledged Department with more than 100 students, four full-time lecturers and five part-time administrative staff members and research associates. Many of our students are involved in the department's field research, where they gain valuable practical experience (and earn money) during their holidays. The Department has a high publication rate, and lecturers, research associates and students are regularly invited to present their work at national and international conferences. Staff are widely recognized, and serve on advisory committees of the World Conservation Union, the Worldwide Fund for Nature, the Millennium Ecosystem Assessment, the German aid agency GTZ, South African National Parks, the Dept of Water Affairs and Forestry, the Dept of Environmental Affairs and Tourism and the Working for Water project.

Who to contact:

The Head: Dept of Environmental Science, Rhodes University, 6140 Grahamstown, South Africa. Tel. 046-6037002, Fax 046-6229319, e-mail c.shackleton@ru.ac.za



Undergraduate students evaluating a community fishery initiative at the Great Fish River estuary near Grahamstown

Fine Art

Rhodes Art School is the oldest in South Africa and offers courses at undergraduate and postgraduate level. The Department provides students with excellent scope to develop their creative and intellectual abilities within a flexible and supportive environment.

Fine Art offers two courses. Studio Practice involves the making of art while Art History & Visual Culture focuses on the analysis of images, from the past and present, but does not involve the making of art. Students studying Studio Practice must study Art History & Visual Culture. However students can study Art History & Visual Culture without also studying Studio Practice: most art historians are not in fact art practitioners.

UNDERGRADUATE COURSE OUTLINE

1. Studio Practice

The department offers training in painting, sculpture, printmaking, photography and digital arts.

The main and recommended undergraduate course for students who want to learn to make art is the BFA (Bachelor of Fine Art), which is a four year, Honours-equivalent degree. Students doing a BA degree may also major in Studio Practice. A DFA (Diploma in Fine Art) is also offered, which is identical to the BFA, except that students are not required to take extra credits in non-fine art subjects.

The first year course serves as an introduction to a variety of media, including drawing, sculpture, painting, photography and video. It is designed to facilitate a student's ability to define his or her preferred media. In second year, students have the opportunity to choose between two media offered concurrently by different lecturers each term. In third year students specialise in one of the core disciplines offered by the department and continue their training in this specialist

area in their fourth year. These disciplines are not seen as strictly differentiated, however, and students are encouraged to explore their interests in whatever medium is most suitable for the project they are working on.

Apart from Studio Practice, BFA students study Art History & Visual Culture as their second major from first to fourth year. BA students majoring in Studio Practice must also major in Art History & Visual Culture.

2. Art History & Visual Culture

BA students who are not majoring in Studio Practice are welcome to study Art History & Visual Culture. While the discipline can serve as an extra credit for one or two years, students may also major in the subject. Art History & Visual Culture is in fact an excellent choice for a BA degree, and for postgraduate studies, as there are an enormous number of career options for graduates and postgraduates of the discipline in South Africa and abroad.

In addition to representations that fall within the parameters of 'fine art', Art History & Visual Culture focuses on visual discourses that form part of the wider cultural production of a society, such as the clothing worn by sectors of its population or the advertisements it makes. The first year course is structured in terms of the following four broad themes: Popular Culture; Art Genres; Museums and Display; Space and Experience. It enables students to glean awareness of the kinds of questions that might be asked of an image, and to become familiar with the terms and language that will enable them to articulate responses to visual images verbally as well as in written form. The second year course offers a study of Modernism and Postmodernism in the West and Africa. The third year course is comprised of topics and themes that explore the relationship between images, power and society. It includes such topics as 'The Body in African Art' and 'Public Art in Contemporary America'.



POSTGRADUATE COURSE OUTLINE

1. Master of Fine Art

This postgraduate degree follows a Bachelor in Fine Art. For this degree, a student produces a body of practical work and writes a mini thesis.

2. Honours in Art History

This course is available to students who have studied three years of Art History & Visual Culture and would like to proceed with postgraduate studies in the discipline. The course comprises three course components (known as 'papers') and a mini thesis.

3. Master's in Art History

This degree is available to students who have completed a Bachelor of Fine Art (with at least 65% for Art History & Visual Culture 4) or an Honours degree in Art History & Visual Culture.

4. PhD in Art History

This degree is available to students who have completed a Master's degree in Art History.

CAREER OPPORTUNITIES

A solid training in courses offered by the Fine Art Department opens up a huge number

of vocational options to graduates and postgraduates. Bachelor of Fine Art and Master of Fine Art graduates can, besides becoming professional artists, enter a whole range of other fields. And so too can graduates and postgraduates of Art History & Visual Culture. They might make careers as commercial photographers, art museum directors or curators, museums educators, restorers, art consultants attached to corporate collections, art journalists, gallery owners, dealers, university lecturers, editors or designers at publishing houses, teachers (at colleges, schools or private studios) or even art therapists. They might also find careers in advertising, the tourist industry, heritage museums, set and costume design, or in the film and television industry where they might be involved in anything from art directing to make-up special effects to digital animation.

ADMISSION REQUIREMENTS FOR STUDIO PRACTICE

Students wishing to study Studio Practice must submit a portfolio of their work with their application. This portfolio should preferably be in the form of photographs or a CD.

Geography



The Geography Department at Rhodes places emphasis on both teaching excellence and high quality research. Our dynamic coursework programmes and academic links with numerous institutions around the world keep the department up to date and create benefits for our students. Our students consistently evaluate the Geography staff as some of the best teachers on campus, whilst our staff are all active researchers in their specialist fields. Our graduates have an enviable reputation for being sought after by many employers.

At Rhodes we produce graduates who are self motivated, independent, critical thinkers. Graduates acquire specialist knowledge within a broad training. They are equipped with the necessary skills with which to contribute to regional and national development. Geography plays a central role in guiding and effecting environmental and development related policies, and is thus of crucial importance, especially in southern Africa.

ACADEMIC STAFF

Professor and Head of Department:

Roddy Fox, PhD (Strathclyde), PGDip (HE&T)

Professors:

Kate Rowntree, MSc (Bristol), PhD (Strathclyde).
Etienne Nel, BA (Hons), HDE (Rhodes), MA (Wits), PhD (Rhodes)

Lecturers:

Gillian McGregor, MSc (Rhodes)
Gijsbert Hoogendoorn, MA (UFS)
Leanne du Preez, BSc (Hons) (Pretoria)

Teaching Assistant:

Linda Fraenkel, BA (Hons) (Rhodes)

WHY STUDY GEOGRAPHY ?

Geography exposes students to key aspects of the physical and human environment, its management and the fundamental links which exist between these two core components. Graduates find employment in fields as diverse as urban and regional planning, journalism, hydrology and environmental management. Geography bridges the Humanities and Sciences and can be taken as part of a Humanities (BA), Science (BSc) or Social Science (BSocSc) Degree. As such, it is a very useful co-major with many University subjects, especially Environmental Science, Geology, Zoology, Botany, Anthropology, History, Politics, Sociology and Journalism.

CAREER OPPORTUNITIES FOR GEOGRAPHERS

Our graduates are employed in a wide range of careers. Geography is strongly recommended for those of you planning to become teachers in either the social, earth or life science areas. Other common careers include (note: in most instances higher degrees are advised):

- environmental management and consultancy



Intrepid geographers off to explore the Cape St. Francis dunes.



3rd year students learn about development problems through participating in role playing games

- water resource management
- development studies
- town and regional planning
- Geographic Information Systems (computers in applied Geography)
- remote sensing
- journalism
- tourism
- research in various Geographical fields.

UNDERGRADUATE GEOGRAPHY CURRICULA

At Rhodes we teach Human and Physical Geography in separate semesters in the undergraduate courses while emphasising the importance of the links between the two areas and the holistic nature of the discipline. In the First Year the two semesters share a common theme, focusing on the global physical and human environment. In the Second Year the focus is on South Africa and in the Third Year on Africa's developmental problems and on pressing environmental issues. The use of Geographical Information Systems as a tool for environmental management is an important component of the third year course. Fieldwork is a key component of all courses as are practical sessions, laboratory work, and the undertaking of supervised research projects.

Key components of Geography I, II and III are:

Geography I

First Semester Earth Science 101: Solid Earth and Earth Surface Systems

Second Semester Human Geography 102: Introduction to Global Development (including: Geography of the World Economy, Development Theory and Practice, Environmental Resources and Development, Global Urbanization, and Population Processes).

Geography II

First Semester 201: Urban and Rural Structures.

Second Semester 202: Natural Systems: Processes, Resources and Management.

Geography III

First Semester 301: Environmental Resources and Development in Africa.

Second Semester 302: Geography in Theory and Practice.

GRADUATE PROGRAMMES

HONOURS

Courses we hope to offer from 2009 include: Research Philosophy and Methodology, Geographical Information Systems (GIS), Frontiers in Geography and Urban Geography. A specialist Honours degree in Environmental Water Management is also offered which incorporates the Research Philosophy and Methodology and GIS courses, as well as two exciting new courses, namely Catchments as Complex Systems and Integrated Catchment Management. All Honours candidates undertake and complete individual supervised research projects.

MASTER'S AND PhD

The Department has an active group of Master's and Doctoral students, undertaking research and writing theses in a wide range of fields, including: water resource management, economic development, fluvial geomorphology, tourism, rural development. Although we do not offer a GIS programme at Master's level, many Master's students develop proficiency in GIS through their research projects.

UNDERGRADUATE AND GRADUATE PROFILES

Our students come from many different backgrounds. Some of the views of our students about Geography at Rhodes are:



Honours students relaxing during a field trip to the Gamtoos irrigation scheme.

'Geography offers courses unlike any other subject at Rhodes. It builds up great general knowledge. Courses give a good overview of the world we live in.'

'Geography is an all encompassing field with human, physical and environmental contexts. The field of study truly equips you with a variety of skills.'

Why Geography, and why at Rhodes University?

'The courses offered by the department are academically stimulating and give students a well-rounded perspective of both physical and human Geography, particularly in the first two years of study. The department has a strong focus on undertaking research work in its undergraduate courses, which subsequently prepares and equips one to cope with postgraduate research projects.'

'I am doing geography honours because it is an innovative subject that has challenged my understanding about the world around me! It brings in a level of understanding that is useful and based on our own ideas and perspectives. Great teaching techniques. Very interactive, most useful practical course I department at Rhodes.'

BUILDING UP A DEGREE CURRICULUM

Geography can be taken in a wide range of degree programmes, as detailed above. There are no specific prerequisites for admission to



Members of the Geography Department studying gully systems in the Karoo.



Malixole Soviti collects and monitors water quality for his Master's research project.

Geography I and a matric or A-Level pass in Geography is not essential. Geography III has no specific prerequisites (other than passes in Geography I and II) and can be taken as a co-major with most Humanities, Social Science, Science and certain Commerce subjects.

FURTHER INFORMATION

Please contact the department at:
The Head of the Geography Department
Rhodes University
P.O.Box 94
Grahamstown 6140
Phone 046 - 603 8319
Fax 046 - 636 1199
E-mail: Geography@ru.ac.za
Further information can be found on our web page: <http://www.rhodes.ac.za/geography>

Geology

The Department of Geology was established soon after the founding of the University in 1904 and has developed a widely respected reputation for quality in both teaching and research. The Department's postgraduate programmes are highly regarded worldwide and this is reflected in the international flavour of both the student body and the academic staff.

Why Study Geology?

Geologists are scientific detectives requiring keen observational skills ranging in scale from the atomic to the global, logical thinking, imagination, and an interdisciplinary approach necessary to read the history of planet Earth that is hidden in rocks. Thus geology is the scientific study of the dynamic system of the solid Earth and its continuous interaction with the atmosphere and the oceans. Central to geology is the unravelling of this imperfectly preserved and complex record of what happened to our planet in the past. What can we learn from rocks 20 000 years old or 4 000 million years old? An enormous amount! Such information leads to a better understanding of the development of our home, planet Earth, and allows us to predict its evolution in the near future. Geology is essential to the continued health of our society because it provides fundamental knowledge for the exploration and discovery and sustainable exploitation of natural resources, for environmental protection and for monitoring of natural hazards and reducing their impact on society.

Career opportunities

With a qualification in Geology one can find employment in any endeavour which involves the solid earth and its interaction with the oceans and atmosphere. In the search for natural resources, the solution of environmental problems, and in minimizing the effects of natural hazards, geological knowledge is essential. Petroleum and gas, groundwater and mineral deposits form the fundamentals of industrial production. Their exploitation brings



environmental problems related to pollution of water and soils and requires engineering projects such as construction of harbours, dams, bridges, and roads. In all these, geologists have fundamental input and they find employment in companies involved with mining and mineral exploration, engineering and construction. They also work in government agencies and as consultants concerned with environmental monitoring and the search for groundwater resources. Geologists are also employed in agencies which work towards understanding and minimising the effects of the many natural hazards such as earthquakes, volcanic eruptions, tidal waves, sea-level changes, landslides and river floods, all of which threaten human society. Research geologists in universities and in private and government organisations work towards gaining fundamental knowledge of how the Earth works and thus provide the broad data sets used by geologists in the many applied fields of geology.

Geology Curricula: building a sound qualification

The underlying principles and concepts of geology are universal and geology is taught in a global context. The first year course in geology comprises two semester credits. The first, taught in conjunction with the Department of Geography, is called Earth Science. It is a broad introduction to the scientific study of our planet Earth, specifically the solid Earth and its atmosphere and hydrosphere as well as the processes occurring on its surface and within the Earth. The second semester credit is taught in the Geology Department and is focussed on the solid Earth. It covers many of the aspects touched on in the first semester in more detail. Enrolment in these courses does not require previous exposure to geology. The course involves both theoretical work and laboratory practicals and is supplemented by field excursions. This first year course is designed to form the basis on which the in-depth courses in second and third year are built, but it also serves as a well rounded course which can be taken by anyone who is interested in the physical nature of our planet. The second and third year courses complement one another and focus on the fundamental subdisciplines and some of the applied aspects of geology in greater detail. Field work is given more prominence and students are required to complete week long field courses in each year during which the main field techniques are taught.

When considering other subjects to combine with the geology major to complete the degree you should be mindful of building a strong degree.

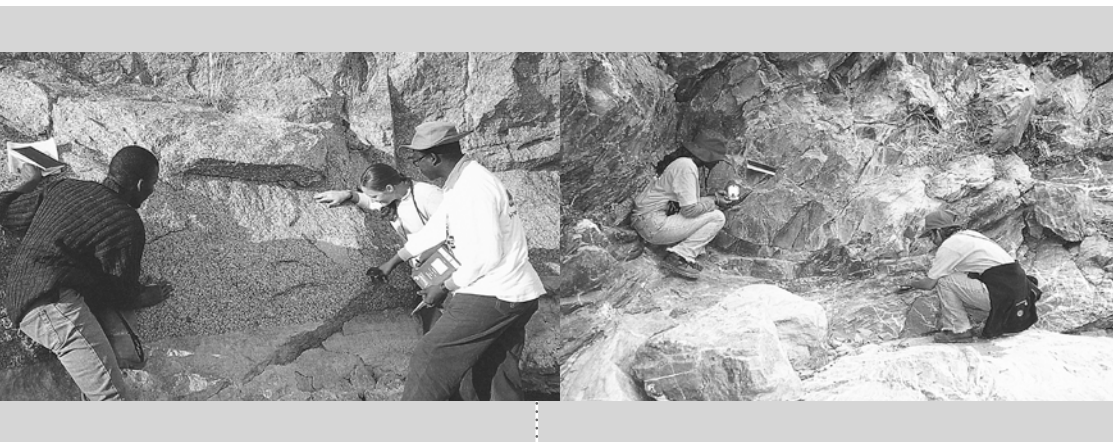
Geology can be combined with numerous other science subjects but it is useful to remember that geology is, in essence, the study of the complex physical and chemical processes operating within and on the Earth, and including courses in such fundamental science subjects as chemistry and physics in your degree structures can only enhance the value of your degree.



Career paths in Geology

For a career in one of the many branches of Geology certain course combinations are strongly recommended. Here are some examples showing which courses should be combined with Geology:

Exploration Geologist	Chemistry; Physics
Mining Geologist	
Petroleum Geologist	Physics; Chemistry; Life Science; Mathematics
Environmental Scientist	Chemistry; Environmental Science; Geography; Life Science
Environmental Management	
Groundwater Hydrologist	Chemistry; Physics; Mathematics; Computer Science
Engineering Geologist	Physics; Mathematics
Mineral Economist	Economics; Statistics
Palaeontologist	Botany; Zoology
Mineralogist	Chemistry; Physics



Postgraduate programmes

BSc Honours

This is the minimum qualification which students who wish to work as geologists should aim for. The entire year is devoted to broadening and deepening your knowledge of geology. You may build a curriculum from amongst a number of both fundamental and applied topics to suit your interests. Advanced training in geological field methods is an important part of the programme. Under supervision of a member of staff you will also carry out your first research project.

MSc and PhD programmes

The Department is well equipped to support fundamental and applied research leading to the research degrees of MSc and PhD. In addition the department has two professionally oriented MSc programmes involving course work and some research in Exploration Geology and Economic Geology.

Further Information

More information about the department and its activities can be found at the Geology website: <http://www.ru.ac.za/academic/departments/geology>

If you have any further queries about the science of geology, studying geology, or about a career as a geologist please contact us by writing to:

The Head of the Department of Geology
Rhodes University
PO Box 94
Grahamstown
6140
or phone 046 6038309
fax 046 6229715
e-mail geolsec@ru.ac.za

We also welcome visitors to our department and if you feel that your school could benefit from a visit by one of our staff please contact us.

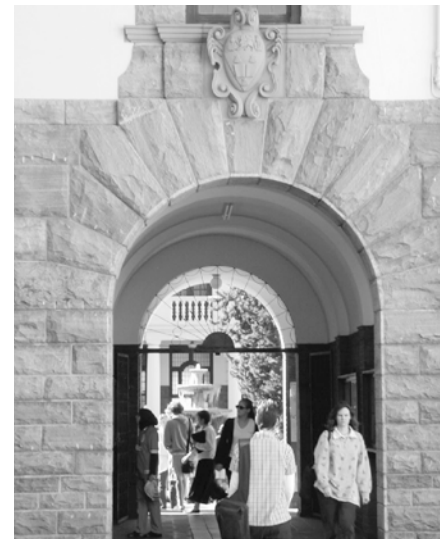
History

History is the study of human experience in all its dimensions – political, economic, social, cultural, religious, intellectual, psychological. Through this multi-dimensional approach to the past, we can obtain a better understanding of the world, the continent, the country and the region that we are living in.

The study of History at Rhodes University is not geared towards rote learning and the mindless absorption of facts (as is so often the case with school history). Rather you will be taught to develop skills which can serve you well both in your future careers and in your private lives: independent thinking; research skills – the ability to find evidence; analytical skills – the ability to develop arguments; harnessing appropriate evidence; the critical awareness that enables you to probe beneath the surface of history; the ability to present ideas in a readable, coherent form.

Fields of Study

As History covers all dimensions of the human experience it links up well with many other university disciplines – especially African languages, Anthropology, Economics, English, foreign languages, Geography, Journalism, Law, Philosophy, Political Studies, Psychology and Sociology. Thus a course in History will



complement courses in these other disciplines; and the History major combines well with any one of them.

Career Opportunities

History is a subject which opens up certain obvious career paths – such as teaching, research and museum or archival work. It also provides an excellent preparation for a career in law, administration, government service, journalism or politics. Moreover, many businesses like to employ History graduates who can generally be relied upon to think independently and exercise sound judgement.

History at Rhodes

All History courses at Rhodes operate on a semester basis. The study of History begins in the first semester with a brief introduction to the nature and relevance of the discipline. The rest of the first semester is devoted to an introductory survey of African history, including South Africa – as the history of this country needs to be studied in the context of the history of the African continent. This section of the course is designed in such a way as to give students who do not proceed beyond first year History a sense of the main themes, issues and debates in African history. It also prepares continuing students for the more in-depth South African and African second and third year courses. In the second semester students are introduced to global history in a course which provides a historical background to many of the issues that confront the world today.

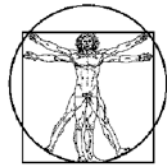
In the second year students take two semester courses: one examines the history of the world since World War One as represented in film and literature; the other focuses on South Africa during the nineteenth and twentieth centuries.

In the third year a set of more specialised course options are offered. These arise out of the special interests and expertise of the department's teaching staff. Students are required to take four courses in a wide range of fields.

The courses cover specialised aspects of the following areas: twentieth century South Africa; women's history; the African crisis; Islam; public history; US imperialism; the history of health and disease.

Human Kinetics and Ergonomics

Human Kinetics and Ergonomics (HKE) is a three year major subject which can be taken for degrees in either the Science or the Humanities Faculty. An HKE major requires four credits, i.e. HKE I, HKE II, Applied Physiology and Anatomy II, and HKE III.



Academic Staff

Professor and Head of Department

M Goebel, Dipl.-Ing. (MSc) (TU Darmstadt),
Dr.-Ing. (PhD) (Aachen University of Technology)

Senior Lecturers

CJ Christie, BA (HMS) (UPE), BSc (Med) (Hons) (UCT), MSc, PhD (Rhodes)
S Zschernack, Dipl.-Ing. (MSc), Dr.-Ing. (PhD) (Engineering) (Berlin)

Lecturer

A I Todd, MSc (Rhodes)

Junior Lecturer

MC Mattison, MSc (Rhodes)

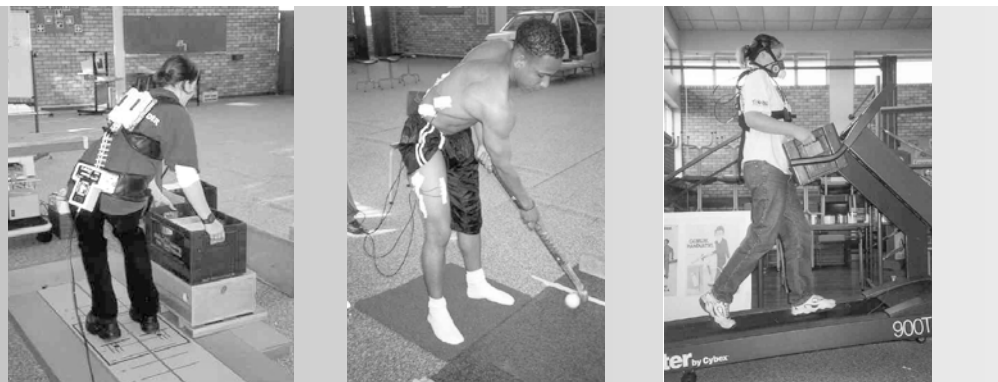
HKE at Rhodes

Over the years we have aimed to offer something special in the exciting and challenging field of the analysis of human movement. Humans move at work, at play and on the sportsfield throughout their lives. Movement is indeed an integral part of everyone's life. In an attempt

to understand the complex eclectic nature of *Homo sapiens* it is necessary to draw on a wide array of cognate disciplines such as anatomy, biomechanics, chemistry, physiology, psychology and computer science to name but a few. As *kinesis* is Greek for motion, the name of the department, **Human Kinetics** encapsulates the academic discipline which focuses on the scientific investigation of human movement.

In order to understand 'how' and 'why' people respond to different circumstances one must establish a rigorous knowledge base which can be applied in various situations. Although there are many fields in which this information is applicable, the three broad areas covered in the undergraduate programme at Rhodes are Ergonomics, Sports Science, together with General Health and Rehabilitation.

However, with a growing awareness of the demanding working conditions in South Africa, there is a clear need for **Ergonomics**, the analysis of human beings in their working



a)

b)

c)

Advanced lab work assessing

a) skeletal, b) muscular and c) cardiovascular response under various conditions.

environment. Therefore the emphasis of the postgraduate programmes offered in the Human Kinetics and Ergonomics (HKE) department at Rhodes is **Ergonomics**.

Facilities

The Department has its own library, and there are four well equipped laboratories for biomechanics, work physiology, motor learning, sport psychology, ergonomics and rehabilitation research.

Degree Options

An HKE BSc degree comprises nine credits of which four must be HKE credits, three are credits in a second major (which must be another science subject), plus another two credits. Admission into the BSc programme is subject to meeting the basic entrance requirements, i.e. Maths at the Higher grade plus another science subject.

An HKE BA degree comprises ten credits. Four must be HKE credits; three credits are taken in a second major, plus three other credits.

Undergraduate Courses

HKE 101

This course serves to introduce the fundamental concepts upon which the interdisciplinary analysis of human movement is based. Introductory anatomy and physiology modules are included.

HKE 102

Biomechanical, physiological and psychological perspectives are covered in separate modules which are then integrated to establish a solid base for understanding 'humans-in-motion'.

HKE 201

Biomechanics, ergonomics and statistical analysis of human responses.

HKE 202

Psychophysiology, human biology and functional anthropometry.

APA 201

The interrelationship between form and function; analysis of human movement in anatomical terms; basic physiology of supply organs and systems.

APA 202

Musculo-skeletal kinematics and kinetics; biophysics and physiology of muscle function in humans.

HKE 301

Includes psychokinetics, work physiology and the statistical analysis of human responses under varying environmental demands.

HKE 302

The course focuses on occupational biomechanics, work physiology and ergonomics.

Practical Experience

Practical experience permeates through the entire degree programme of the Department. Laboratory work in the form of scientific experimentation forms a major component of all courses. The students gather biomechanical, physiological and psychological data on their classmates under controlled performance situations and varying environmental conditions. It is upon such experiences that students can draw, first hand, in developing insights into the broad field of 'humans-in-motion'.



Undergrad involvement in tutorials and labs.

Career Opportunities

Research

At universities, the CSIR, in industry, in sports research units, medical research units.

Ergonomics

In industry and all other commercial domains: Analysis and design of work stations to improve worker well being and productivity.

Education

At schools, colleges and universities.

Private Practice/Consulting

Within the industrial setting solving human factor problems; 'fitness' institutes, health centres, sports associations and clubs.

Medical and Paramedical

Occupational rehabilitation, sports medicine clinics, institutes for the handicapped, and for gerontological patients.

The Media

Positions in journalism, radio and television.

Achievements

The Human Kinetics and Ergonomics department at Rhodes is unique in the country in that it is the only department offering Ergonomics at both the undergraduate and postgraduate levels.

The staff and postgraduate students are recognised both nationally and internationally for their academic rigour in the specialised field of Ergonomics; indeed we are accredited as being the Ergonomics centre of Africa. With a growing awareness of the critical role Ergonomics can play in improving working conditions and thereby enhancing worker well-being while at the same time increasing productivity, both company directors and government officials are beginning to acknowledge the need for Ergonomists. This recognition will ultimately result in exciting career opportunities for those with degrees in Ergonomics.

Staff and postgraduate students are involved in research projects in the automotive and forestry industries, the mines and in light and heavy industry, the main focus being to investigate the energy cost and the neuromusculoskeletal stresses being experienced by human operators in these diverse working conditions.

BASIC COMPONENTS OF AN HKE DEGREE

BSc
(9 full credits)

or

BA
(10 full credits)

First Year	Second Year	Third Year	Postgraduate degrees
HKE I	HKE II	HKE III	
<u>2nd M *I</u>	APA II	<u>2nd M III</u>	
I	<u>2nd M</u>		
I	----		Honours, MSc, MA and PhD

other first year credits

* Second Major Required

EXAMPLES OF SECOND MAJORS:

- Biochemistry
- Chemistry
- Computer Science
- Geography
- Maths
- Zoology
- Psychology

Ichthyology & Fisheries Science

Ichthyology (the study of fish) and **Fisheries Science** at Rhodes University began with the activities of Prof JLB Smith in the 1940s. He became world famous for his work on the coelacanth, a fish previously believed to be extinct. Grahamstown has since become an internationally recognised centre for fish research. Rhodes University's **Department of Ichthyology and Fisheries Science** (DIFS) offers both undergraduate and postgraduate courses, and works in close collaboration with the **South African Institute for Aquatic Biodiversity** (SAIAB) a National Research Foundation (NRF) National Facility next door to the DIFS.



Did You Know?

Fish are the largest group of vertebrates (animals with Backbones) with over 20 000 species, many still undescribed by scientists. Make a career of understanding the relationships between species and help to describe new species.

LIST OF STAFF

- Associate Professor and Head of Department: Peter Britz, BSc Hons (UCT), MSc, PhD (Rhodes)
- Emeritus Professor: Tom Hecht, BSc (UOFS), PhD (UPE)
- Associate Professor: Warwick Sauer, BSc(Hons), MSc, PhD (UPE)
- Professor: Anthony Booth, PhD (Rhodes)

- Associate Professor Horst Kaiser, PhD (Bonn)
- Mr Martin Davies, BSc (Hons) (Manchester), MSc (Southampton), Senior Aquaculture and Fisheries Scientist
- Dr Cliff Jones, PhD (Rhodes), Contract Lecturer
- Dr Niall Vine, PhD (Rhodes), Research Officer
- Mr Qurban Rouhani, Rural Fisheries Programme
- Dr Warren Potts, Research Officer

Associated Honorary Appointments

- Prof A Whitfield, SAIAB
- Prof P Skelton, SAIAB
- Dr P Heemstra, SAIAB
- Dr N Vine, Espadon Marine
- Dr P Cowley, SAIAB
- Dr P Shaw, University of East London
- Dr A Cockcroft, Marine and Coastal Management
- Dr M Smale, Bayworld
- Mr Q Rouhani, DIFS
- Dr E Anderson, SAIAB
- Dr W Vermeulen, NMMU
- Dr I Ansonge, UCT

WHY STUDY ICHTHYOLOGY AND FISHERIES SCIENCE?

An **ichthyologist** studies the fundamental aspects of fish biology, taxonomy and ecology, while a **fisheries scientist** performs research on the fish populations that people harvest through fishing. The Rhodes University Fisheries Science courses also include aquaculture, which is the farming of fish, other aquatic creatures and plants.

Life in aquatic ecosystems is just as exciting and complex as in those on land, and that is what ichthyology is all about: the study of fish and their associated environments, their interactions with each other, with plants, other animals and with man.

An ichthyologist is a person who studies fish, but this is not just about identifying

and discovering new fish (systematics and taxonomy). You can specialise as an ecologist (studying the interactions between fish and their environment), an ethologist (studying the behaviour of fishes) or even as an evolutionary biologist (studying how fish relate to each other and to other animals over time). Ichthyologists can also choose to specialise in either marine or freshwater fish or even in estuarine fish studies. In the field of applied Ichthyology, the main specialisations are **Fisheries Science** and **Aquaculture**. A **Fisheries Scientist** is involved in the study and management of fish resources, which often involves modelling of fish populations using sophisticated mathematical and computer software. An **aquaculturist** studies or practices fish farming. Aquaculture in sea water is known as **Mariculture**, and involves the culture (or growth) of marine organisms, such as perlemoen, mussels, oysters, and fish species.

Did You Know?

A career in Ichthyology or in Fisheries Science typically includes field data collection and observation, interaction with resource users, laboratory work on scientific samples, data analysis, report writing, people and travel to international scientific conferences to present your findings.

UNDERGRADUATE ICHTHYOLOGY CURRICULA

Ichthyology is offered as a major subject to be read in the second and third year of a three year BSc degree.

At second year level the course (ICH201 and ICH202) covers fundamental aspects of fish biology including fish diversity and habitats, form and function, genetics, behaviour, ecology, reproduction and development, oceanography, food and feeding, and sensory systems. A field trip, in collaboration with the Botany, Zoology & Entomology Departments, to introduce the ecological techniques, forms part of the course.

The third year course (ICH301 and ICH302) covers more advanced and specialised topics

such as: quantitative ecology, limnology, fisheries management, conservation, experimental design and aquaculture.

Field trips involving fish sampling, going to sea on research and commercial vessels, and visits to fishing and aquaculture businesses form part of both the second and third year courses.

GRADUATE PROGRAMMES



BSc Honours

The major themes of the Honours programme are **Ichthyology**, **Resource Management** and **Aquaculture**. This programme prepares students academically, technically and mentally for careers in these fields. The first part of the course embraces fundamental aspects of the general biology, anatomy, morphology, systematics, evolution, ethology, ecology and diversity of fishes. This is followed by coursework in population dynamics, fisheries management and conservation. In aquaculture theme students are taught the principles of modern aquaculture and are exposed to the local industry. The components of the Honours programme include a major research project, coursework lectures and group tutorials, essays, seminars, the development of an aquaculture business plan, field excursions, practical assignments and prescribed reading.

This programme is designed to teach students to work independently and to think critically through activities such as performing original research on a small scale and critically reviewing the work of others.

Did You Know?

The highest number of vertebrate extinctions in the last 30 years have been among the fishes. Destruction of aquatic habitats is a prime cause. Contribute to solving this problem through a career in ichthyology.

MSc and PhD Degrees

The DIFS has a large postgraduate school of students who perform research funded by research agencies and contracts from industry, government and development agencies. MSc and PhD degrees are supervised by members of the DIFS and South African Institute for Aquatic Biodiversity and both are research degrees examined by thesis. A coursework MSc in Fisheries Management is presently being planned. Applicants for MSc must have a BSc Honours in Ichthyology, Zoology or equivalent undergraduate degree.

Career Opportunities

A degree in Ichthyology or Fisheries Science offers a number of career options including fish research, fisheries and aquatic resource management, conservation, teaching and environmental education, environmental consulting, rural development work based on natural resources, environmental journalism, the fishing industry, ecotourism, and fish farming. About 80% of our graduates remain in these fields.

Ichthyologists in research and teaching posts are employed in museums, universities, research institutes, public aquariums and conservation departments.

Self-employment opportunities may be found in ecotourism, consulting work on ichthyological, conservation and management issues. Aquaculture is a rapidly growing industry, with many fish farms being run as small businesses, supplying fish to fish hobbyists and also for growing food fish.

Ichthyology, or fish research, is a very rewarding career and lifestyle. Most people involved in this field love their work and are 'fulfilling a childhood dream' according to Dr Eric Anderson, Marine Ichthyologist at the South African

Institute for Aquatic Biodiversity. How many people can wake up and look forward to going to 'office' each day, when your office may be the laboratory, the open air, or water? How many are lucky enough to call their love of nature, and especially the aquatic environment, 'work'?

Achievements

The department has become a unique African centre of excellence with students from 13 countries currently registered for postgraduate degrees. Graduates of the Department of Ichthyology and Fisheries Science (DIFS) serve in key research and fisheries management positions all over the world. Staff and postgraduate students in the DIFS are involved in flagship conservation projects, and work closely with Government and industry and provide advice on all aspects of fisheries management.

For more information contact:

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E-mail: P.Britz@ru.ac.za
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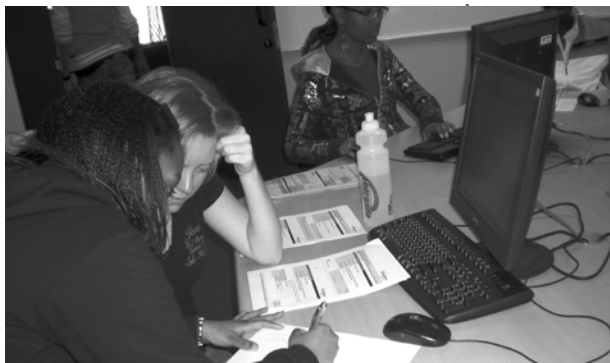
Information Systems

Introduction

Information Systems (IS) is a dynamic and growing discipline and very much a product of the increasing application of computing technology in organisations and society. At Rhodes University, Information Systems courses were first offered in the Department of Management, in 1980, and later by an independent Department of Information Systems (1990).

The discipline of Information Systems can best be described as the effective analysis, design, construction, delivery, management and use of information and information technology in organisations and society. An information system is an organised collection of people, procedures, data, computing technology, networks and services that work together to deliver information. Examples of commonplace information systems include payroll systems, banking systems (via automated teller machines (ATMs) and telephone and Internet banking), airline reservation systems, financial and accounting business systems. The Internet has also created huge opportunities for searching for information, communicating (with friends and business partners) and doing business electronically via a massive network of computers located throughout the world. Complex information systems are required for these activities.

The Department is characterised by an enthusiastic group of students and staff who thoroughly enjoy the exciting challenges offered by information technology.



Like other academic departments, the Department offers lectures daily, but also pays particular attention to the practical component of courses during which time students gain valuable hands-on experience with a variety of computer packages and information systems development tools. Students also have the opportunity to develop their own systems, as part of a team, using the skills that they have learnt during the course. A critical component of courses in the Department is the contact the Department fosters with industry. Industry experts in many fields of Information Systems frequently address students on topics of importance as a formal component of the curriculum.

Academic Staff

Professor and Head of Department

DA Sewry, MSc, PhD (Rhodes), FICSIT, MCSSA, MACM, MAIS

Associate Professor

GG Foster, PhD (Rhodes), MACM

Senior Lecturer

JB McNeill, BSc(Hons)(Rhodes), MS(SE)(Monmouth), MCSSA, MACM

Lecturers

RV Benyon, BA(Hons), MCom(Rhodes), MACM, MitSMF(SA)

DM Freeme, DipData(UNISA), BSc(Inf)(UNISA), BMgt(International Management Centres), MCom(Inf)(Wits), MACM

L Palmer, BCom(Rhodes), MBA(Rhodes), MCSSA, MACM

K Rafferty, HDipEd(JCE), BSc(Wits), PBL(UNISA), MBA(Rhodes), MACM

C Upfold, MBA(Rhodes), MACM

Senior Instructors

E de la Rey, BSc, BEcon(Rhodes), MACM

Visiting Professor

M Sainsbury, BSc(UNISA), MSc(Bath)



Why Study Information Systems?

Very few, if any, governments, organisations or businesses exist that do not have some form of information system at the core of their operations. Additionally, more and more opportunities are being found for the use of computers and the need for information systems in all aspects of society. That the world increasingly finds itself in the midst of the information age – in which information generated from information systems is used as the basis of all decisions – further underlies the importance of the discipline. Most importantly, the rapid deployment of information systems has not been met by an equally rapidly expanding pool of talented professionals who can create information systems. To study Information Systems places one in amongst a highly valuable and sought after group.

Undergraduate Information Systems Curricula

Information Systems is a two year major, that is, there is no first year course in Information Systems. However, all students are required to complete the first year semester course offered by the Department of Computer Science (CSC 101) prior to registering for courses in the Department. This course introduces students to a modern computing environment, and provides an accelerated introduction to core computer literacy skills such as office tools and networking. It also provides an in-depth introduction to problem solving techniques and principles using integrated computer toolsets and programming.

IS201: first semester

IT in the Organisation
Information Systems Theory
End User Development Tools
Information Technologies

IS202: second semester

Information Systems Analysis
Application Development and Tools

IS201 and 202 are the first courses for students wanting to major in IS, and provides students with a thorough theoretical and practical grounding to the discipline as a whole.

IS203: second semester

Accounting Information Systems

Accounting Support Tools
Information Systems Security and Control
Computer Assisted Audit Techniques (CAATS)

IS203 is the second semester module for students following an Accounting professional route, as set out in the Bachelor of Commerce (Accounting), who intend to register later for the Postgraduate Diploma in Accountancy or the Honours programme in Financial Management.

IS301: first semester

Corporate Communications for Information Systems Professionals
IT Project Management
Requirements Elicitation
Advanced Information Systems Theory
Information Systems Design

IS302: second semester

Advanced Data Manipulation
Advanced Application Development Concepts and Tools
E-Business Strategies
E-Business Tools

IS301 and 302 focuses primarily on Information Systems development, equipping students for entry into the Information Systems profession. Students also undertake a group information systems development project.

Graduate programmes

The Information Systems Honours course is structured around a number of theoretical course modules, and a group-based or individual Research Project comprising the development



of an information system, experimentation of a prototype information system or field work. Course modules include: Corporate Communications, Requirements Elicitation, Development Tools, Patterns, Network Design and Administration, Information Systems Management, Human-Computer Interaction, E-Business, Data Warehousing, Environmentally Sustainable Information Technology, Enterprise Architecture, Software Testing, Service Science and Research Methodologies.

Highlights of the year include an industry field trip and an industry internship.

The Department also offers MSc, MCom and PhD degrees in Information Systems by thesis. Here students undertake full or part time research studies in fields of Information Systems. Current areas of research include Information Systems Curricula, ICT for Rural Development, Service Management, Social Networking, HCI, Veterinary Informatics, Information Systems Development Methodologies.

Career Opportunities

Career opportunities in Information Systems are varied and numerous, as well as offering freedom, personal growth, job satisfaction and an above average income almost anywhere in the world. IT has become a vital part of business strategy, and the Information Systems professional faces a challenging task with high corporate visibility,

important decision-making opportunities, and a career path that could lead all the way to the top. Since there are frequently no right or wrong answers, creative abilities, communication skills and business knowledge are just as important as the underlying technology. It is also a career well-suited to both men and women, offering rapid promotion possibilities, interaction with people, and the ability to work from home.

Graduates of the Department occupy positions either in the training and support area, as end-user computer support specialists; in the systems area, as business analysts, designers, software engineers, or application programmers; or in the management area as project managers, Chief Information Officers, members of the Board of Directors tasked with Information Technology.

A combination of Information Systems and Management is recommended for students wishing to follow a managerial route in Information Systems. A combination of Information Systems and Computer Science is recommended for students wishing to follow an information systems development route where they would employ strong technical and analytical knowledge to develop efficient and effective information systems.

Journalism and Media Studies

Journalism and Media Studies (JMS) is located at the top end of Rhodes campus in the African Media Matrix building which is purpose built and well resourced to develop outstanding journalists, media workers and researchers. Also, we have Grocott's Mail down town which is the oldest functioning independent newspaper in South Africa, and here JMS students get hands-on experience producing media for the people of Grahamstown.

The degrees and courses offered at undergraduate and postgraduate levels aim to produce thoughtful and imaginative media practitioners and the approach of JMS is to integrate intellectual study with the production of media. Students also have the opportunity to work on a range of media projects which offer them rich experiences. These include Cue (the National Arts Festival daily, CuePix, CueRadio, CueTV, CueOnline), JQ (the JMS quarterly publication), reporting on Highway Africa, Scifest and in a range of other student media (such as Activate and RMR).

Study Options available:

At undergraduate level

A three year Bachelor of Arts degree (BA) majoring in Journalism and Media Studies and one other major subject.

The first year is designed to introduce media studies and basic journalistic skills. The course includes: Introduction to the Study and History of the Media; Introduction to Newswriting; Narrative and Genre.

Students need to work consistently as 120 students are selected to go on to second year. The selection is based on a number of criteria including a portfolio with a record of practical work produced outside the course (like working in a newspaper or radio station), multilingualism, the potential to contribute to the transformation of the media, commitment to the course and academic results. (Some students may elect to suspend their studies in JMS and later enrol for the PGDip in JMS.)

The second year is designed to establish a sound knowledge of media production and media studies. The media studies component includes SA Media Histories (both print and broadcast), Media Sociology and Institutions, and Representation and Reality. These courses feed into the Media Production courses and students do a semester each in broadcast (radio) and print (Writing, Editing and Design) production skills.

The third year aims to deepen and consolidate students' critical knowledge and skills of the previous 2 years to prepare them for a career path in an area of journalistic specialisation (photojournalism, writing, radio, television, or design). Journalism is foregrounded in both the media studies courses of Media and Society; Media Law and Ethics; and Journalism, Democracy and Development, as well as in the production specialisations.

After completing a BA with a major in JMS students can then continue studying in the field by registering for a BJourn or Honours degree.

At postgraduate level

The Bachelor of Journalism and Media Studies (BJourn) allows students who have completed JMS3 to deepen their critical knowledge and practice within their chosen specialisation (photojournalism, writing, radio, television, design and new media) and also to develop expertise in one additional specialisation.

Honours in Journalism and Media Studies enables students to develop insights into a number of fields including Media and Modernity, Journalism Studies, Introduction to Media Research, Representations in Africa (with a production focus), Textual studies and Cultural studies. Students can undertake a research project that interests them.

The Postgraduate Diploma in Journalism and Media Studies (PGDip JMS) is aimed at students who have typically done a non-journalism degree and are looking for a postgraduate route into the media industry. It is a one year intensive programme in which media studies and media

practice are blended to enable students to begin a career in news media.

The Postgraduate Diploma in Media Management is a one year diploma that equips students to perform mid-level management positions within public, corporate and community media organisations. This course is presented by experienced industry professionals in the Sol Plaatje Media Leadership Institute.

MA in Journalism and Media Studies.

This is where the future generation of academics and researchers is born! Mid-career journalists, media workers and recent graduates find this a stimulating site to reconsider and invigorate their practices. The fields of study include Media and Society, Media and Texts, Media Institutions and Policy and Media Research Methods. All students conduct in-depth research into an area of interest to themselves and contribute to the knowledge about media in Africa.

Career potential

With its journalistic focus, JMS educates graduates who potentially play an important transformative role in the world of journalism. This world of media incorporates print whether newspapers or magazines, broadcast radio and TV in all its forms (public, private and community), and online media; both mainstream and alternative.

The graduates that have come through JMS work across the media – consider just a few names:

Will Bendix, (BJourn Design 2002), editor of Zig Zag magazine;

Ray Hartley (BA Hons 1987), current editor of The Daily Times;

Shaun Johnson (BAJ 1981, Hons 1982), Managing Director of the Cape Independent Newspapers; author of award-winning novel, *The Native Commissioner*;

Hayes Mabwazara (MA 2006), currently reading for a PhD at Edinburgh;

Siki Mgabadeli (BJourn 2001), anchors the daily SAFM business and economics programme, Market Update, and the Saturday edition of Weekend AM Live;

Haru Mutasa (BA 2004), TV reporter for Al Jazeera English in the Kenyan bureau;



Vincent Maher (BA Hons 1996, HDip 2007), strategist at the Mail & Guardian Online;
Paula Frey (BAJ 1986), former editor of the Saturday Star, 2001 Nieman Fellow at Harvard, heads Paula Fray and Associates, media trainers and consultants;
Krivani Pillay (BJourn 2001), SABC radio announcer, won the Vodacom Journalist of the Year Award (editor's choice) when working for Lotus FM;
Sahm Venter (MA 2005), free lance foreign correspondent and producer for radio and television, is co-editor of the book, *Something to Write Home About* (published by Jacana in May 2004).

School of Languages

Why go to the trouble of learning another language? Extending your knowledge of languages can be fun, interesting and helpful in your future career. Posts in the diplomatic corps, journalism, computers, law, commerce and politics as well as tourism and the hotel industry increasingly require knowledge of a wider world culture and the ability to use different languages.

Get a passport to the global village by learning French, German or Dutch, modern European languages which are also spoken elsewhere in the world. Explore the origins of modern culture by studying the achievements of the ancient Greeks and Romans.

Closer to home Afrikaans and IsiXhosa put you in closer contact with many of your fellow South Africans. And our Modern Fiction course provides you with access to world literature, studied in English translation.

If you are interested in language, literature and culture, there is ample opportunity for you to broaden your horizons at Rhodes.

African Languages

IsiXhosa, the African language offered at Rhodes at present, is spoken by almost 18% of the South African population. It is also one of the most widely distributed languages in South Africa. Together with isiZulu, which is mutually intelligible with isiXhosa, they are spoken by almost half of the South African population (42%)!

IsiXhosa at Rhodes is offered as both additional language (L2) and first language (L1). The aim of the L2 courses is to equip students with both linguistic and cultural competence so that they are able to cope in a multilingual and culturally diverse society. Students enrolled in these courses are exposed to themes that are appropriate to foster speaking and understanding of the structure of the language. Further, they also get introduced to various literary discourses, as well as to issues of inter- and cross-cultural communication.

IsiXhosa L1 was re-introduced in 2008. In this course, students are equipped with skills related to isiXhosa which will match the demands of the employers when they graduate with a major in the language. This course offers modules such as translation/interpreting, African languages and

technology, language and education, language and media, introduction to publishing, literary studies, etc.

Both isiXhosa L1 and isiXhosa L2 are three year majors that can lead to Honours, MA and PhD.

IsiXhosa for Journalism (mother tongue) is a one-year semesterized course. This course is compulsory for all fluent Nguni speakers majoring in journalism. The two semester courses can be taken at any point during the degree but must be completed before a student can graduate. The course includes material on writing skills and orthography as well as developing fieldwork competencies and intercultural skills. Once the course has been passed, students can also proceed to isiXhosa 2 (mother tongue).

IsiXhosa for Journalism (additional language) is a one-year semesterized course. This course is compulsory for all students who have little or no competency in isiXhosa and who intend majoring in Journalism. The two semester courses can be taken at any point during the degree but must be completed before a student can graduate. This course includes developing interviewing skills in isiXhosa, as well as creating an understanding of how one works with an interpreter/translator both in the field and in the editing room. The course is particularly designed to develop vocation specific communication and listening skills as well as intercultural skills and basic skills in how to edit isiXhosa recordings. Once the course has been passed, students can also proceed to isiXhosa 2 (second language).

Students in the African Language Studies Section can be assured of the real practice of ubuntu (the spirit of humanity – sharing and togetherness).

Afrikaans and Netherlandic Studies

Afrikaans, the mother tongue of 6 million people, is accessible to 15 million South Africans and provides students with a window to Africa. At the same time speakers of Afrikaans have easy access to Dutch, one of the languages of the European parliament, spoken by more than 20 million people in the Netherlands, Belgium and Suriname. Afrikaans literature at Rhodes has a strong theoretical component relevant to the study of literature in other languages and which as general cultural theory is relevant to subjects

such as journalism, drama, the social sciences and law.

Every student registered for Afrikaans at Rhodes enjoys personal attention from members of staff and great care is taken that the course material is contemporary, relevant, topical and both academically and socially useful.

The Afrikaans course at Rhodes is significantly different from Afrikaans offered as a school subject. The aim of the course is to introduce students to the South African as well as the international literary discourse via topical (and sometimes controversial) contemporary literary texts, covering themes such as **Literature and Ecology, Politically engaged literature, Cabaret, contemporary Afrikaans Rock Music**, etc.

Afrikaans 1 can lead to a three year major, as well as to research at Honours, Master's and PhD level.

Information regarding Bursaries can be obtained from the subject head.

Several nationally and internationally renowned writers and scholars have taught or studied Afrikaans & Nederlands at Rhodes and ex-students occupy interesting and challenging jobs in South Africa, as well as overseas, in fields such as journalism, drama, teaching, law, publishing and the international film industry.

Chinese Studies

Chinese Studies 1 (CS 1) at Rhodes University is a language course for non-mother tongue students who wish to acquire essential communicative skills in both spoken and written Chinese. CS 1 covers a sizable repertoire of Chinese characters as used in everyday communicative situations, and develops an awareness of and understanding of the cultural aspects of the unique Chinese writing system. There is no prerequisite for CS 1.

Chinese Studies 2 expands and refines the skills and content of CS 1. CS 1 is a prerequisite for CS 2.

A major in Chinese Studies is envisaged and will in all probability be launched in 2011. This major will offer, in addition to a focus on the Chinese language, the opportunity of doing modules on Chinese civilization and history, philosophy, legal and political systems, social and economic systems, and business.

Scholarships for study tours of China, and intensive short summer courses or even semester

or year study in China are available for students who perform well.

Who should learn Chinese?

- Students who plan to major in Commerce subjects - China is fast becoming a dominant economic and business influence in Africa.
- Students who plan to major in Political and International Studies - China is already a major global political force.
- Students who are doing linguistics - Chinese is a prime example of a non-Indo-European language.
- Students who plan to teach English as a second language in China - this will give you a head start in this foreign environment.
- Anyone who is interested in Chinese culture, literature and history.

More: www.ru.ac.za/international/aboutus/confuciusinstitute

Classical Studies

'Classical Studies' or 'Classics' refers to the literature, history, art, thought and daily lives of those men and women in ancient Greece and Rome who have so profoundly influenced today's world. At Rhodes University Classics is offered as three separate but interrelated subjects – Classical Civilisation, (ancient) Greek and Latin.

In Classical Civilisation you will study (through the medium of English) such things as the epics of Homer and Vergil, the tragedies of Sophocles and Euripides, the philosophy of Plato, great art works and the lives and times of such influential figures as Alexander the Great, Cleopatra and Julius Caesar.

If you study Classics by taking either or both of the original languages, you will be more intimately in touch with the classical world. Will this be a problem if you have not studied Greek or Latin before? Not at all. You can start these subjects at Rhodes, and still take them as majors.

French Studies

French provides an important means of communication in the modern world. This Romance language is the most widely spoken European language in Africa, and there are 110 million

speakers worldwide. French Studies at Rhodes aims to foster a love of the French language, literature and culture. A multimedia approach is used in our language teaching. The courses offered, which start at beginners' level, enable students to understand, speak, read and write the language. The practical components include business and touristic French, a knowledge of which can prove valuable in a variety of careers. Mother tongue French students are employed to conduct weekly conversation tutorials.

German Studies

With a united Germany as the most populous state within the enlarging European Community, a knowledge of a major European language such as German is of great advantage for a successful career in the world of commerce and industry, of teaching and journalism, of science and the arts.

German Studies at Rhodes starts in the first year course with an introduction to the language for beginners. Yet the focus in this and subsequent courses is not only on competence in written and spoken German language, but, since real competence also entails cultural knowledge, students are familiarised with German, Austrian and Swiss culture in the broadest sense, including modules on German literature, on history and geography, on customs and institutions. The aim is to render students as adaptable and versatile as possible in preparation for their professional life, so modules in which skills such as translation are taught are also included.

Weekly conversation tutorials facilitate consolidation of materials covered in lectures and enable students to enhance their level of spoken German.

Modern Fiction

A course in MODERN FICTION in English translation is offered by the School of Languages at Rhodes University. This course is open to students who have already obtained at least two credits and it is therefore an ideal choice for a student in the second or third year of his or her degree studies.

Candidates who have not obtained a credit in English II may, with the permission of the Head of the Department of English, proceed directly from Modern Fiction to English III.

Modern Fiction is designed to augment and supplement the study of fiction dealt with in other literature courses at Rhodes. The course is also intended to serve as a general cultural background course for students registered for courses in Journalism, Law, Politics, International Studies, Sociology, Anthropology, History, Commerce, etc. It offers a broad perspective on the development of fiction in world literature from about 1850 to the present day, comprising authors like Flaubert, Tolstoy, Dostoevsky, Proust, Kafka, Mann, Camus, Grass, Robbe-Grillet, Calvino, Marquez, Borges and Kundera.

The major part of the course is devoted to a study of novels and short fiction (in English translation) by authors like the ones mentioned above. In addition, these texts are placed within general streams of cultural and intellectual developments; and strategies of contemporary fiction are studied.

There are four periods per week (one theory, and three textual studies).

Lecturers are drawn from all the Divisions in the Rhodes School of Languages as well as from the School of English Studies.

Management

The study of Management at Rhodes University originated in 1922 with the introduction of the degree of Bachelor of Commerce. Over the years, various departments were created from the 'Department of Commerce', now the Faculty of Commerce. Of these, the Department of Management, formerly Business Administration, was among the first to be developed. It now strives to keep pace with the developments in its field in order to achieve national and international recognition as a provider of quality management education and relevant research in a rapidly changing world.

Academic Staff

Prof. Lynette Louw: Head of Department (HOD)

Raymond Ackerman Chair of Business Administration; BCom; BCom Hons(Cum Laude); MCom(Cum Laude); DCom(UPE)

Trevor Amos: Senior Lecturer

BSocSc(Hons)(Economics); BSocSc(Hons)(Psychology); MSocSc(Rhodes)

Hans-Peter Bakker: Senior Lecturer

BA; BHons(Journalism); Hons(Business Admin)(Cum Laude); MBA(Stellenbosch)

Theus Louw: Lecturer

BA(UPE); BA(Hons)(Stellenbosch); MBA(Stellenbosch)

Mark Maritz: Lecturer

BCom(Hons)(Rhodes); PMICSSA; MACM

Shafeek Sha: Lecturer

BCom(Hons)(Rhodes); MCom(Rhodes)

Stanislaus Zindiye: Lecturer

BCom(Cum Laude); BCom(Hons); MCom(UFH)

WHY STUDY MANAGEMENT?

Management, which is a core function in any organisation (large or small), especially in the world of commerce, is a dynamic process whereby people in leading positions use human and other resources as efficiently as possible in order to provide certain products and/or services, with the aim of meeting the needs of consumers/target groups and

achieving the stated goals of an organisation. Since managers in the new millennium need to manage holistically and globally, the core competencies of 20th century management (planning, organisation, leading and controlling) are no longer sufficient. Managers now also need to be able to think and act strategically, to communicate effectively, to identify and solve problems, to manage themselves effectively, to demonstrate innovation, creativity and entrepreneurship, to manage across the various functional areas, and to manage in a global context. With these competencies, leaders can make decisions within the constraints of resources, continually changing environments, uncertainty and competition.

Students who see themselves as future leaders in the business world in particular should therefore major in Management.

CAREER OPPORTUNITIES FOR MANAGERS

Students who major in Management are able to pursue career objectives in the various areas of management, e.g. as general or strategic managers, or as managers in functional areas such as marketing, financial management, human resource management and supply chain & logistics management. The basic competencies obtained through a first degree are enhanced by a postgraduate year as an Honours/4th year Business Science student.

Research areas can be developed through Master's degrees and Doctorates and can lead to alternative



careers as leaders of **Research** within a variety of fields in organisations, or as **Educators**, providing skilled teachers, lecturers and researchers, without whom development cannot take place.

UNDERGRADUATE MANAGEMENT CURRICULA

First year curriculum

MAN 101: first semester PRINCIPLES OF MANAGEMENT A:

An overview of management, the business environment and managing strategically, decision-making and leading.

MAN 102: second semester PRINCIPLES OF MANAGEMENT B:

Organising, controlling and evaluating, change and innovation; business operations.

Second year curriculum

MAN 211

HUMAN RESOURCE MANAGEMENT A:

The Human Resource Management function with emphasis on human resource planning, staffing, compensation and human resource maintenance.

MAN 212

SUPPLY CHAIN MANAGEMENT

- Introduction to supply chain management: concepts and demarcation
- Understanding supply chain strategy and obtaining an insight into important supply strategies
- Organisation of the supply chain, and customer service; a supply chain focus
- Managing inventories, and quality management in the supply chain
- Total cost of ownership; and supply chain and integrated logistics management
- Distribution management, and the role of transport in the supply chain
- Managing the global supply chain; and project management.

MAN 213

PRINCIPLES OF MARKETING A:

The marketing concept; an introduction to the marketing mix, with the emphasis on product, price, promotion and distribution; an introduction to marketing research, business markets and business buyer behaviour, market targeting and market positioning.

MAN 214

FINANCIAL MANAGEMENT A:

The goal of Financial Management, financial statements, introduction to valuation, performance analysis, working capital management.

Third year curriculum

MAN 311

HUMAN RESOURCE MANAGEMENT B:

Organisational behaviour, with the emphasis on understanding the behaviour and leadership of people in the organisation; labour relations, with the emphasis on South African labour relations, systems and management.

MAN 312

STRATEGIC MANAGEMENT

A study of the principles of strategic management, in accordance with the constraints and opportunities imposed by both internal and external environmental factors.

MAN 313

PRINCIPLES OF MARKETING B:

Advanced aspects of the traditional marketing concept; specialised and contemporary developments in marketing theory and practice; including international marketing, brand management, relationship marketing, and services marketing.

MAN 314

FINANCIAL MANAGEMENT B:

The investment, finance and dividend decisions; and introduction to risk and return.

Features of the second and third year curricula include group projects in which students liaise with organisations, small or large, conducting research (which could be developed further into journal articles) to develop practical insights into the business world.

GRADUATE PROGRAMMES

BCom(Honours)/BBS4

The Management Honours/BBS4 programme is an intensive programme in which students read advanced papers in the four basic functions of Management, namely Strategic Management, Human Resource Management, Marketing and Financial Management, undertaking research and making presentations in seminars, besides preparing

a year long Research Paper or Business Report on a topic approved by the Department and working with other students in a group and undertaking research on behalf of an organisation.

Honours/BBS4 curriculum

- Strategic Management
- Human Resource Management
- Marketing
- Financial Management
- Research Paper; or
- Business Report

Either the Research Paper or the Business Report is compulsory for all Management Honours and BBS4 students (including both those taking 100% of their papers in these courses and those taking only 60%).

Postgraduate Diploma in Enterprise Management (PDEM)

As the Department of Management is committed to making a significant contribution to the development of an entrepreneurial culture in South Africa, it has initiated the Postgraduate Diploma in Enterprise Management, which is designed to lay the foundations for students who wish to pursue the idea of starting their own businesses, thus creating their own employment, as well as employment for others. It also equips students to pursue a career in business if they do not wish to pursue the entrepreneurial path.

The programme is based on the action-learning philosophy. Students on the programme are expected to learn by doing and to develop conceptual understanding and practical skills through a process of simultaneous interaction. The programme is therefore different from the typical university

course. The main objective is to teach students **for** entrepreneurship, **about** entrepreneurship and **through** entrepreneurship. The Alpha Project embodies the practical experience of running a micro-enterprise, while seven papers provide the theory.

Postgraduate students from any faculty who have NOT majored in Management, Business Administration or the equivalent are eligible to apply for a place.

Postgraduate Diploma in Enterprise Management curriculum

- Paper 1: Computerised Accounting for Small Business
- Paper 2: Financial Management
- Paper 3: Strategic Marketing
- Paper 4: People Management
- Paper 5: Entrepreneurship
- Paper 6: Supply Chain and Project Management
- Paper 7: Legal aspects of Entrepreneurship

Alpha Project: Embodies the practical experience of running a micro-enterprise, while the seven papers provide the theory

Master of Commerce and Doctor of Philosophy (MCom and PhD) degrees

The Department of Management focuses on research from Honours/4th year level onwards to develop potential Master's/doctoral research areas/problems. Students are encouraged to read Master's degrees following their Honours programmes in fields such as Entrepreneurship, as well as the main functional areas of Management, and at the same time to participate in the Department's tutorial and teaching programmes, thereby gaining additional experience.



Graduate profiles



Michelle Burt (Honours 2007)

I look back on my 4 years at Rhodes with great nostalgia. It was definitely four years of my life worth treasuring, and the knowledge gained created a powerful person ready to take on the challenges life presents. Rhodes provided a sanctuary where one was free to be an individual, be daring and be different.

Each year at Rhodes was unique, starting off with life in residence to my final year living off campus with good friends. I felt overwhelmed with the abundance of activities to choose from whether it be in the sporting, academic or cultural field.

I always envisaged myself as a successful business entrepreneur, and so chose to study for a Bachelor of Commerce degree. It was diverse, and stimulating. So much so that after getting my degree, I decided to further my studies and embark on honours in management. The 2007 honours class formed a tight knit group and with help from enthusiastic and dedicated management lecturers we had a thoroughly enjoyable year. We undertook large research projects of our own choice, and had varying hands-on experiences. Trips were organized providing us with the opportunity of putting our theory into practice, and while we worked hard we also played hard.

Making Rhodes my university of choice was without a doubt one of the best, most influential and worthwhile decisions I have ever made.

James Arnott BEcon 1991

I joined Accenture in 1994, having graduated in 1991.

At present, I am a Senior Manager at Accenture in the Human Performance Service Line, and am deployed to Accenture's global utility practice.

I have worked extensively in the Government and Utilities industry in a variety of major world

class management, information systems and financial and commercial process consulting projects. These projects have included the development of various Change Management strategies, communication, business cases, journey management, training and role mapping, as well as the management of large scale multiple site rollouts and programmes.

I am currently working as a Programme Manager with Eskom's Distribution and Information Strategy Department in the design, development and implementation of new processes, procedures, technologies and human performance interactions to reduce non-technical losses within Eskom's pre-paid electricity environment.

I continue to be actively involved with Rhodes University through Accenture's Graduate Placement Recruiting Programme, as well as participating in the Information Systems Department's Value Added Lecturer programme. I also represent Accenture and the Consulting Industry on the Rhodes Board of Advisers for the Information Strategy and Management Departments and the Rhodes Investec Business School.

Rhodes is indeed 'Where Leaders Learn'. From my personal experience I have found that the knowledge and skills that I developed while at Rhodes, through the Department of Management, are world class and have certainly assisted me in achieving my career goals. The course curriculum for the Department of Management was relevant and holistic in its content. The active management and review of the Department of Management's curriculum on a yearly basis seeks to ensure its relevance.

Each year, when I return to Rhodes to assist in Accenture's Graduate Recruiting and Student Leadership programmes, I am impressed by the standard and quality of the students that Rhodes and the Department of Management produces, as well as the facilities that the University has to offer. The students exhibit a keen understanding of economic, political, social and environmental issues facing South African business, as well as a practical experience in utilising the skills

and knowledge that they have gained over the course of their studies. These practical experiences are exhibited in the students' active involvement in and contributions to various university societies, house and hall committees, as well as community projects.

I have no doubt that Rhodes and the Department of Management will continue to contribute to the human capital development of South Africa and, in so doing, ensure that tomorrow's leaders are equipped with the right skills and knowledge to make a difference in the lives of all South Africans.

Sandra Emslie (Ansell) BCom(Hons) 1991

After graduating in 1991, I began my career as a Marketing Trainee at Iscor in Pretoria, but decided that I preferred the world of FMCG and the coast and moved to Johnson and Johnson in East London, where I am now Franchise Manager with responsibility for Adult Toiletries. My job entails not only classical marketing but the structure of the company allows involvement in other areas of the business, such as company strategic planning, project management, employee development and finance.

The Management programme at Rhodes, especially the Honours component, not only gives one exposure to the areas mentioned above but also provides a fundamental understanding of the total business and global economy in which we operate. It is very different when one actually gets out into the real world but at varsity I learnt how to think beyond the conventional and to challenge the status quo, and this has stood me in good stead.

Romuald Rwamamara PDEM 1997

I now live in Sweden and I should like you to know that the enterprise management course has been really helpful in my studies and research.

I have been able to pursue Master's studies in Sweden, supported by the recommendation of the Department of Management, and

have obtained an MSc in Ergonomics and am now doing PhD research in Steel Structures Engineering.

Joanne Coates PDEM 1997

I worked at the Electricity Pool of England and Wales for a few years, doing data inputting on the 98 programme for the deregulation of electricity. I then coordinated one of their bigger projects called Market Domain data as a business analyst. I did auditing, problem analysis, project coordination and liaison. I set up my own company 'Chevron Commercial Limited' but was headhunted to the New Electricity Trading Arrangements at Logica as Problem Manager. I decided after a while to move on to a new field and am now at the Law Society in their IT Department as an account manager. It is rather hectic but I am enjoying it nonetheless and am learning so much.

Our course (PDEM) did wonders not only for my CV but for me as a person, as I know now that anyone can be capable of doing anything they set their minds and hearts to, and that is something you taught us ...

Beth Houston PDEM 1997

When I left Rhodes I decided to travel and found myself in London, ending up at JP Morgan, an American investment bank, as a personal assistant to two managing directors and a vice-president. After a year in that position, I was promoted to marketing officer for the Mergers and Acquisitions department in London, covering Europe, the Middle East and Africa. Looking back at my first role at the bank, I realised that my promotion came as a result of hard work, a lot of initiative and a little bit of luck. My willingness to work the demanding hours and ability to remain client-focused was a direct result of the skills I learned during the PDEM year.



My focus as marketing officer required that I make the bank's successes known to my colleagues. There was great focus on cross-selling services at Morgan, but because so many people worked there it was a challenge to keep everyone up to date. We used a number of tools, traditional ones like training sessions and hard copy newsletters, and newer ones like e-mail announcements, intranet sites and databases. My job also required that I write and research credential material that was included in presentation pitches to clients. Sometimes business is won on the strength of what the bank (or any other business) has done before and it was a real buzz to be part of that.

I moved on from that role and London because I met a New Zealander who was offered an opportunity back in his hometown, Wellington. I now work for a major national law firm in New Zealand as the marketing and communications adviser. The role is similar to the last one, only the 'products' that I sell are different. I am responsible for client seminars, newsletters and media statements, and I am also involved in some strategy and branding.

I believe the PDEM equipped me with many tools to work in a corporate environment. The lecturers had high expectations of us that paid off in the 'real world'. It was really difficult to get to lectures by 08:00 but I was much more prepared than my friends when we all started working the next year.

If I had to name a single skill the PDEM gave me, it would be determination; especially the determination to try new things. I'm determined to own my own in the future and I know I can do it because I've done it before.

Adrian Ristow BCom(Hons) MCom 1998

My current position is that of Communications Manager for Coca-Cola SABCO (CCS). As the Anchor Coca-Cola Bottler for Africa, CCS operates in South Africa, Namibia, Mozambique, Kenya, Uganda, Tanzania and Ethiopia. In my role, I am responsible for external and internal communication for the

Group Office (Head Office) and I provide guidance and support for our operations in all of our countries on communication issues. My role also includes providing overall guidance for corporate citizenship issues and I also work closely with The Coca-Cola Company franchise office on communication and public affairs issues.

I believe that my time at Rhodes had a significant impact on my career development. I believe that my studies provided an ideal platform for me to pursue my chosen career. On top of this my time spent lecturing (**Junior Lecturer: 1999**) was also a significant growth period for me. Besides the sound functional knowledge that is developed at Rhodes, the academic environment certainly helps to develop the type of analytical, conceptual and interpersonal skills that are vital for success in business.

Andrea de Kok and Michelle Miles B Com(Hons) 2001

We joined Colgate Palmolive as Junior Brand Managers on graduating from Rhodes through the wonderful Management Department, and are putting all that fabulous knowledge we gained at Rhodes into good practice: Andrea is working with the Personal Care category, while Michelle is working on the Oral Care category. Our jobs are very interesting and rewarding – and what a great company to work for!

Brett Hayward BBS 2002

After graduating in 2002, I joined the Kempston Group as a Management Trainee, with the owner of the group being my mentor. The key result areas of my job are centred around special projects that cover a variety of business disciplines. It is my aim to gain sufficient practical experience at grass roots level, about general business practice, and then to apply such in the competitive business environment of today.

The Rhodes statement of 'Where leaders learn' is a manifestation of a Rhodes graduate's success.

My success in my academic and social life can be attributed to the principles and interactions experienced during my four year association with the Management Department. The knowledge and skills that I developed while at Rhodes, through the Department of Management, will definitely assist me to be successful in my career and future endeavours.

The Bachelor of Business Science degree, and in particular the Management curriculum, has prepared me to appreciate the complexity associated with running a business today. I have learned that for a manager to be successful and grow in competence, one needs to be a dynamic leader. This foundation was laid in the learning curriculum followed by the Management Department.

The Management IV programme provides one with valuable insight for those committed to successfully leading and managing organisations in the 21st century and beyond. The relationship established during my four years will definitely continue into the foreseeable future, as I grow and develop into a dynamic leader. I have also embarked on reading for a Master's degree through the Department of Management.

Roger Elliott

BCom (Rhodes) 1983, LLB (Rhodes) 1986, MBA (UCT) 1997, PhD 2005, PGDHE(Rhodes) 2006.

I joined Rhodes as a lecturer in the Management Department at the end of 1999 and started lecturing in 2000. Before starting at Rhodes, I had spent much of my career practising as an attorney. However, in many instances, I had to deal with the management challenges facing managers in most organisations such as marketing and human resource issues. I found this aspect of professional practice particularly gratifying and consequently enrolled for a Masters of Business Administration (MBA) degree at the Graduate School of Business (University of Cape Town) in 1997. This year proved to be a watershed in my life in many respects. I found the challenge and stimulation of full time academia, although hard work, both stimulating and exciting.

After graduating with an MBA, I started work with an anti-corruption agency known as the Special Investigation Unit (formerly known as the Heath commission), under the leadership of Judge Willem Heath. I thoroughly enjoyed my time with this organisation but when I saw an advertisement in the newspaper for the post of a marketing lecturer at Rhodes University, the lure of academia was irresistible.

Although the Management Department at Rhodes has a collegial atmosphere, it has an ethos of excellence, both in its teaching and research. This environment in no small way contributed in my graduating with a PhD in May 2005 with my thesis investigating the managerial issues contributing to the success of Internet marketing of small tourism businesses. Subsequent to the completion of this project, I have become involved in research in the FMCG sector, which is directed towards improving the efficiency of this industry.

What do I need to know?

Building up a degree curriculum

Management may be a major subject for a Bachelor of Commerce degree, a Bachelor of Business Science degree and a Bachelor of Social Science degree. Majors commonly undertaken with Management include Economics, Psychology, Statistics, Legal Theory, Commercial Law, Accounting and Information Systems.

Assessment

Undergraduate Management 1 courses are divided into half year semesters with theory examinations in June and November, while Management 2 and 3 courses are divided into term modules, for which theory examinations are written in June for Terms 1 and 2 and November for Terms 3 and 4. Classwork is assessed by means of assignments (individual or group), class tests and tutorial participation. The class mark forms part of the final mark for each course. The Honours/Management 4 course also consists of term modules and a Research Essay or Business Report (see curricula) which is prepared over the course of the academic year. The term modules are assessed by class work (seminar presentations and group projects) and theory examinations in June and November. The Postgraduate Diploma in Enterprise Management course is also assessed by class work assignments and tests for each paper and by theory examinations in June and November, besides the successful mounting, operation and winding up of the Alpha Project micro-enterprise businesses.

Applications and further information

* Further information on the department may be found on our website at <http://www.ru.ac.za/management/>

* Visits to the Department can be arranged with:

The Head of the Department of Management
Rhodes University, Grahamstown, 6140
Telephone: 046 603 8245/6
Fax: 046 605 8913
e-mail: l.louw@ru.ac.za

* Details of degree structures and requirements, and general information about the University, may be obtained from:

The Registrar
Rhodes University
Grahamstown, 6140
Telephone: 046 603 8214/8276
e-mail: registrar@ru.ac.za

Mathematics

MATHEMATICS is the science which is concerned with structure and relationship. In 'structure' and 'relationship' we do not think only of geometric structures and relationships, but logical (deductive) structures and relationships between abstract concepts. The mathematician solves problems by means of logical deductions made from abstract models of concrete cases. In most scientific disciplines a knowledge of mathematics is essential, since the scientist, by translating a practical problem into mathematics and solving it according to mathematical rules and systems, can interpret it in the context of the original problem and thus solve it.

Pure mathematics concerns abstractions and their methods in order to achieve better insight, while *applied mathematics* involves the use of these methods for solving specific problems.

Mathematics has its origins in ancient Egypt and Arabia because of man's need to measure land and to count things (e.g. money). The Greeks in the heyday of Athens, elevated mathematics, particularly geometry, to a viewpoint which is still valid today. This is that mathematics is a deductive system based on some fundamental assumptions (axioms) and logical conclusions. These conclusions are called theorems or propositions. This viewpoint opened up seemingly limitless possibilities to the creative mind, and mathematics became in the final analysis the science in which carefully formulated new ideas can be tested with the greatest possible rigour.

If we take the amount of mathematics published as criterion, we must be living in a golden age of the subject. 'Mathematical Reviews' of the American Mathematical Society lists about 2 400 journals which publish papers in mathematics. The same 'Reviews' classifies Mathematics into 94 different topics with about 3 400 subcategories. In 1868 the 'Jahrbuch über die Fortschritte der Mathematik' had only 12 topics with 38 subcategories. The best any active research mathematician of today can hope to do, is to keep abreast of developments in about three of these topics.



CAREER OPPORTUNITIES

Mathematicians are in demand not only for the mathematical knowledge that they possess, but also for the logical approach which they have been trained to bring to diverse scientific and technical problems. They find employment in commerce and industry, research institutes and various government departments. Careers in, for instance, the physical sciences, engineering, actuarial science, computer science and statistics are impossible without a sound preparation in mathematics. The biological, social and economic sciences depend increasingly on mathematical model building, and those subjects will have an ever increasing need of mathematical knowledge. Since there is a great shortage of trained mathematics teachers in South Africa, the prospects for teachers of mathematics at all levels are excellent.

MATHEMATICS AT RHODES

Rhodes, Grahamstown, is in the fortunate position of having a combined Pure and Applied Mathematics Department. This is a healthy situation since both of these are aspects of the same vast subject between which a distinction is often difficult if not impossible. At the first year level, the department offers different types of Mathematics 1 to suit the needs of the various categories of students, e.g. scientists, liberal arts students, pharmacy students, commerce students, etc. A first semester course, Mathematics 1L, provides mathematical literacy

for students who do not qualify for entry into the other first courses in mathematics, or are admitted into the four year Extended Studies Programme of the Science Faculty with only a Standard Grade matric Mathematics pass. In the second and third years, Mathematics 2 and 3 and Applied Mathematics 2 and 3 are offered. These second and third year courses are subdivided into options which allow students to combine some aspects of mathematics with applied mathematics. In all these undergraduate courses, lectures are supplemented with small group tutorials.

The Honours course consists of ten topics of about 26 lectures each, chosen from the following general areas covering a wide spectrum of contemporary mathematics and applied mathematics:

Topology; Algebra and applications (e.g. Coding Theory and Cryptography); Mathematical Logic and Set Theory; Fuzzy Sets with applications to Topology, Algebra and Control Theory; Measure Theory and Functional Analysis; Lattice Theory; Combinatorics; Category Theory; Differential Equations; Differential Geometry; Group representations; Quantum Field Theory; Mathematics of networking; Wavelet Analysis; Approximation Theory; Neural networks; Information and Control; Fuzzy linear programming; Mathematical modelling.

The Master's programme consists of further courses and a thesis on a specialised topic. The PhD is a research degree for which the department offers supervision in specialised topics in Analysis, Topology, Algebra and Differential Equations.

FACILITIES

Since mathematics is essentially a pen and paper subject, little more is required than congenial surroundings and facilities for guidance and research. All this is offered in the department, which is centrally situated on the campus in a historical old building built by the Royal Engineers in the first half of the 19th century. Students have access to excellent computer facilities and the library holdings in mathematics are adequate and constantly expanding.

BUILDING UP A DEGREE CURRICULUM

Mathematics and Applied Mathematics may be taken as a major subject for the degrees of Bachelor of Science, Bachelor of Science (Information Systems), Bachelor of Arts, Bachelor of Commerce, Bachelor of Economics, Bachelor of Social Science, Bachelor of Business Science, Bachelor of Journalism and the Diploma HDE (Sec). No compulsory ancillary courses are required for a major in Mathematics or Applied Mathematics, and it can be usefully combined with almost any other major subject offered in the Faculties of Science, Humanities and Commerce.

FURTHER INFORMATION

More information about the courses in the Department can be obtained from:

The Head of Department

Mathematics (Pure and Applied)
Rhodes University
6139 GRAHAMSTOWN
Tel: 046-603 8339
Fax: 046-603 8897

Details of the degree structures and requirements, and general information about the University, may be obtained from:

The Registrar

Rhodes University
6139 Grahamstown
Tel: 046-603 8214 / 603 8276

Music & Musicology

Founded in 1923, the Music Department is one of the oldest music departments in South Africa, and has established itself as a centre for excellence in music studies. The department has seen major changes in recent years in terms of staff, curriculum, and above all the national profile it has attained. The International Library of African Music is now affiliated to the Music Department, offering greater focus on postgraduate research in ethnomusicology. Rhodes music has eagerly taken on the challenges of a changing country and world, reflecting not only the music diversity of our country but also the technological sophistication of the IT age, and is a vibrant centre for the training and development of young musicians.

Academic Staff

Head of Department

Prof Marc Duby, BA (UCT), BMus (UCT), MMus (UN), PhD (UP)

International Library of African Music (ILAM): Director

Assoc Prof Diane Thram, PhD (Indiana)

Senior Lecturers

Dr Tim Radloff, BA, HDE, MMus, RULM (Rhodes), UTLM (UNISA), PhD (Rhodes)

Ms Daniela Heunis, BA (Mus), BMus (Hons), HED (Stell), MMus (Rhodes), UPLM, UTLM (UNISA)

Ms Catherine Foxcroft, BMus (UCT), UPLM (UNISA), Kunstlerische Ausbildung (Hochschule fuer Musik und Theater Hannover Germany), Kammermusikdiplom (HMTH), Konzertexamen (HMTH)

Mr Juan Munoz, Performer Degree (Catholic University of Santiago – Chile)

Lecturers

Dr Jeffrey Brukman, BMus, MMus, DMus (UNISA), UTLM, UPLM, UALM (UNISA), LTCL, ATCL

Jazz Studies: To be appointed.

Ethnomusicology: To be appointed.

Librarian

Ms Fiona Still-Drewett, NDPhoto, BsocSci, Hdiplis (CT), Bbibl (UNISA)

Why study music?

Music is one of those few areas in life that combines the categories of 'leisure' and 'work', so you can be truly passionate about and enjoy the subject you study at university. It is a highly diverse discipline with something to offer most people, and is extremely flexible, complementing both the physical and information sciences, as well as the social sciences and other arts.

Most importantly, music is a strongly social art, offering you lifelong interaction and sharing with your fellow humans. It is a multi-skilled discipline with a human face, the study of which opens its graduates up to a range of careers.

Career Opportunities for music graduates

The music profession offers an enormous diversity of career opportunities; graduates are able to build and create a career from one or more of these options: teaching at primary, secondary, or tertiary level; ethno/musicological research; performing; composing and arranging; sound engineering; arts administration, management and publicity; music publishing; arts journalism; music librarianship, music therapy and theatre work.

Undergraduate Music Studies

There are three year long credits in music theory and history, ethnomusicology, and instrumental music studies. In the four year BMus degree you take three music courses for the first and 2nd year, two for 3rd year and choose from 18 subjects for your 4th year, enabling you to either specialise in the academic, composition, or performance spheres, or a combination thereof.

Our courses are:

Music 1, 2, 3

Ethnomusicology 1, 2, 3

*Instrumental Music Studies 1, 2, 3

Sound Technology 1

**All applicants wishing to take IMS are required to undergo an audition prior to acceptance*

In an **interdisciplinary degree** (BA or BSc with music), students are able to select from the above credit-bearing courses as well as **History & Appreciation of Music** (HAM) and **World Music & Culture** (½ credit semester course).

Music 1, 2, 3

The first 2 years of this course focus on Theory and History of Music, including introductory modules in Composition, Arranging and History of Music. In the 3rd year, students choose between the theoretical and historical/musicological streams.

Ethnomusicology 101/102, 2, 3

This course is taught in conjunction with the International Library of African Music, a unique resource centre for African music studies. Aside from learning about the musics of Africa in particular, and world music in general, you'll learn specific 'fieldwork' skills such as how to transcribe music.

There is a strong theoretical component to the course, with modules such as Music and Diaspora, and an emphasis on the performance of African music. Recent projects in this course have included the writing and presentation of programmes for the community radio station, RMR, and 'applied ethnomusicology', where you get to give something of what you've learned back to the local community.

Instrumental Music Studies

BMus students take a major instrument and also take ensemble training. All students are required to participate in ensemble work, and the Department has groups to cater for almost every performance taste: the African Music Ensemble, Steel-Band, RU Chamber Choir, RU Jazz Ensembles, Brass Ensemble, String Ensemble / Chamber Orchestra, RU Voices (Jazz) and the Rhodes Vocal Ensemble, which works closely with the East Cape Opera Company.

Weekly performance classes plus a host of concerts presented by the department during the year in Grahamstown's many fine

concert venues give keen performers excellent opportunities and experience in this field.

The National Arts Festival (June/July) which takes place in Grahamstown, and for which Rhodes Music students often present productions, also gives students incomparable exposure to the professional performance environment.

Sound Technology

This course is now offered as a full credit at undergraduate level, and is open to students from both the Humanities and Science Faculties. BMus students need to note that this course does NOT count as one of the two required Humanities credits towards their degree.

The course covers both the analogue and digital aspects of studio recording and engineering technology. Students who successfully complete the course will be able to engineer the entire recording process from setting up microphones, operating multi-track recorders and editing the recorded material, to mixing down the final product. A theory component underpins the practical component. The department has a fully equipped recording studio in which students may gain practical experience.

Rhodes University Licentiate Diploma in School Music (RULS)

This qualification covers all aspects of the state school music syllabus grades 1–12. It is only available to BMus students and taken as ancillary to the degree. Registered with SAQA, it provides the required professional qualification for state school teaching positions.



Philosophy

PHILOSOPHY is the most irreverent academic discipline precisely because it invites us to question our most basic beliefs about ourselves and the world. How willing are you to challenge the blind prejudices informing your current existence? If you are happy to live with what you have already come to believe, then by all means stay away from philosophy. But if you are inquisitive and want to understand the basic puzzles of human existence, then philosophy is for you.

Philosophers often appeal to general contrasting ideas such as truth and falsehood, knowledge and belief, purpose and cause, thing and person, law and freedom, justice and injustice, good and evil, society and individual. But what do these ideas involve? And how could one decide which of possible competing theories or frameworks aimed at understanding these ideas are correct? Philosophy deals with ideas and questions of this kind. It aims to understand these ideas and address these questions by careful argument and criticism, and to foster a critical attitude to one's own and other people's opinions and theories. But ultimately, the aim of philosophy is practical, since it invites us to live our lives in accordance with our best understandings of the world and our place in it.

Fields of Study

The main fields of study in Philosophy are

- Ethics: What is the right thing to do? How should we live?
- Epistemology: What is knowledge? And (how) can we have knowledge?
- Metaphysics: What kinds of things are there? Why is the world the way it is?
- Logic: What is a valid argument? How can we determine whether an argument is valid?

Career Opportunities

Philosophy does not provide a direct training for any specific profession. However, it offers an education that can be invaluable in any other academic subject or subsequent professional

career that requires lucid and creative thinking, analysis and argumentation skills.

Philosophy at Rhodes

The Rhodes University Academic Review Report for 2005 notes the following: 'The Philosophy Department has a long tradition and record of excellence in teaching. Its graduates speak very highly of the kind of education they were exposed to.'

The Department strives to create a stimulating intellectual environment for its students. For advanced students, there are the weekly Reading Group and Departmental Seminar, and the Spring Philosophy Colloquium in September. The Department has a healthy research and publishing record, and edits and publishes the international journal, *Philosophical Papers*.

The Department prides itself on having a wide range of interests which span most traditions of philosophical thinking, including Anglo-American, Continental and African traditions. This is a distinctive feature of our department which sets us apart from other departments of philosophy in South Africa.

Facilities

Philosophy is an abstract subject and does not require laboratories and equipment. The Department is housed in a pleasant renovated house on Prince Alfred Street. Philosophy



students have access to an excellent and up-to-date collection of books, journals and electronic resources in the Rhodes Library.

Building up a degree curriculum

Introduction to Philosophy (ITP) covers topics in the following areas: reason and religious belief; human knowledge; mind and its place in nature; determinism, free will and responsibility; and morality and its critics. Particular attention is given to developing (philosophical) reasoning skills. ITP can be taken by students in any year of study and is open to all students. It is a recommended but not required course for students who want to major in Philosophy.

Accounting Ethics is offered to Accounting 3 students.

Students who want to major in Philosophy must do Philosophy 2 (students have to be at least in their second year of study) and Philosophy 3. Students who have passed ITP or Anthropology 1 or Journalism 1 or Legal Theory 1 or Politics 1 or Psychology 1 or Sociology 1 may register for Philosophy 2.



Contact

The Secretary
Philosophy
Rhodes University
Prince Alfred Street
Grahamstown 6140

Telephone: 046 6038351
Email: philosophy@ru.ac.za
Web: www.ru.ac/philosophy

To do Philosophy 2, you must do at least one of the following:

- ITP
- Anthropology 1
- Journalism 1
- Legal Theory 1
- Politics 1
- Psychology 1
- Sociology 1



Philosophy 2



Philosophy 3



Honours/MA

Physics and Electronics

PHYSICS is the fundamental science that underpins all of the other natural sciences. It is an exciting intellectual endeavour that is both challenging and rewarding. Physics serves two apparently disparate purposes in our society: one almost intangible and the other very practical. On one hand it satisfies our intellectual curiosity about all the objects and processes in the Universe, and on the other it spawns the technologies that improve our quality of life. Physics has fuelled the incredible expansion of knowledge and technology that has occurred in the recent past, and will continue to be a major influence in our lives in the future.



Physics students from Rhodes University on a visit to the Hermanus Magnetic Observatory learn how small apparent movements of a fixed GPS receiver can yield information about the free electron concentration of the upper atmosphere.

Why do we need Physicists?

PHYSICISTS are acknowledged to be valuable assets in our modern society. They provide us with an understanding of the fundamental processes that govern the Universe, and they harness the laws and materials provided by nature to stimulate economic growth and improve our standard of living. Some physicists study exotic and ethereal objects, such as subatomic quarks and massive cosmic black holes, while others develop practical technologies that are used in common commodities, such as cell-phones and computers. Some physicists even manage to combine their esoteric research interests with the development of practical technologies.

The skills of the physicist have application far beyond the classroom and the laboratory. Physicists are trained to apply logical and rational reasoning in all situations, and to use systematic and analytic techniques when solving problems. These attributes are highly valued in all spheres of society, and many respected leaders in finance, industry and politics were trained as physicists.

Physics and Electronics at Rhodes

The Physics curriculum at Rhodes is unique in Southern Africa in that it is a combination of 'traditional' Physics and modern Electronics courses. Our curriculum is designed to train empirical scientists of international standard who will have the requisite knowledge and skills to pursue a wide range of careers and vocations in the African context.

Our curriculum covers a great range of topics that are recognised by the international Physics community. These topics include classical mechanics, electrostatics, electrodynamics,

relativity, quantum mechanics, thermodynamics, statistical physics, nuclear physics and particle physics. In teaching these courses we concentrate on practical application of the material rather than rote repetition of textbook knowledge. A variety of innovative teaching and evaluation methods are employed by our lecturers to ensure that our students acquire a proper understanding of the material.

Our laboratory courses focus on experiment design, the construction and operation of scientific instrumentation, the understanding of measurement processes, the application of appropriate data analysis techniques, and the interpretation of experimental results. Extensive use is made of computers to apply data processing techniques and numerical analysis algorithms to the empirical data.

Our Electronics courses are mostly conducted in our specialist Electronics laboratory, with the more mathematical topics (such as signal processing) being taught in the lecture theatre. Carefully designed exercises and experiments introduce students to the devices and techniques of modern analogue and digital electronics. Our curriculum includes a substantial fraction of the material covered by specialist Electronic Engineering schools. Waveguides, microcontrollers, digital signal processors (DSPs) and field programmable gate arrays (FPGAs) are some of the sophisticated devices that are covered in our Electronics courses.

One of the main purposes of our Electronics

curriculum is to provide our students with the skills necessary to design, build and operate the sophisticated instruments used in cutting edge Physics and Astronomy research. These Electronics skills may also be applied to industrial electronic instrumentation, and many of our graduates are making valuable contributions in the burgeoning IT and technical computation sectors.

A degree curriculum at Rhodes consists of two major subjects and a number of ancillary courses. Courses that combine particularly well with Physics and Electronics include Mathematics (Pure and Applied), Computer Science, Chemistry and Geology. Including Physics and Electronics courses in any curriculum will add value to your degree.

Careers in Physics and Electronics

Our unique combination of Physics and Electronics provides our graduates with a wide range of career opportunities. Broad areas of employment opportunity include academic research and teaching, school teaching, health science, manufacturing and mining industries, law, journalism, finance and commerce. Past graduates from our Department have embarked on an eclectic range of careers that include high level scientific research, university lectureships, management of industries, law, geophysics, school teaching, piloting helicopters and art. A background in Physics prepares you for all eventualities, and all of our graduates are highly successful in their chosen careers.

Research in Physics and Electronics

The Department conducts world class research in radio astronomy, space science, solid state physics, theoretical particle and nuclear physics, and electronic instrumentation. All of these research groups maintain active links with major international institutions, South African National Facilities, and other local universities. These links give our postgraduate students access to the most exciting research topics in the world. Our international partners include: University of Cambridge, University of Oxford, University of Manchester, The George Washington University, The University of Melbourne, and facilities such as CERN, Brookhaven National Laboratory and RIKEN, Japan.

The Radio Astronomy Group have a long association with the HartRAO National Facility, and have recently become actively involved in the international Square Kilometre Array (SKA) radio telescope project. The SKA might be located in South Africa, and will be one of the largest scientific instruments ever built. As a precursor to the SKA, the South African government has granted special funding for the design and construction of the Karoo Array Telescope (KAT) in the central Karoo

region. The KAT will be the largest investment ever made in a scientific instrument in South Africa, and it will be the most powerful radio telescope in the world until the SKA is finally built. The Department of Physics & Electronics is playing a major role in the design and implementation of the KAT. The Group's research contributes to the understanding of the formation and evolution of the universe and its constituent parts, such as galaxies, stars and the cosmic magnetic field.

The Space Physics Group works closely with the Hermanus Magnetic Observatory (HMO) and HartRAO National Facilities. They monitor 'space weather' using worldwide networks of ionosphere radars (ionosondes) and Global Positioning System (GPS) receivers. The Group has developed a neural-network computer model that predicts the global behaviour of the ionosphere and that is used to ensure reliable global telecommunications. The condensed Matter Physics group conducts research concerned with defects in materials using luminescence techniques. Defect studies are an essential element of physics because many properties of solids are defined by the imperfections and defects within them. The group has made significant contributions in the development of theory, methodology, instrumentation and applications of time-resolved spectroscopy, an area of topical research interest in luminescence physics.

The Theoretical Physics Group conducts research in Nuclear and Particle Physics, and the particles that make up the fundamental building blocks of matter in the universe. The research involves the use of high-level mathematics and computing, to analyse and understand the data coming from research facilities such as CERN and RIKEN. There are also close ties with iThemba Labs and the Centre for High Performance Computing, Cape Town.



Rhodes Staff and students at iThemba Labs, a nuclear physics research facility with which the Physics Department has close ties.

Political and International Studies

What is the study of Politics all about?

It is sometimes supposed that to study Politics is to study 'what politicians do'. If that were the case, it would be a very dull field and would be unlikely to attract the brightest minds. Fortunately, we have for centuries understood that Politics is really about the sorts of problems that have fascinated and perplexed humanity throughout our existence.

Perhaps the most central problem of all in Politics is to create the conditions under which power can be controlled. The cliché about power is that it corrupts and that absolute power corrupts absolutely. Democracy implies power with limits – the antithesis of totalitarianism in which the power invested in leaders is not controlled or limited in any way; it is total.

If Politics is about power, then as citizens of a democracy we might say that we have a particular interest in developing an understanding of Politics; that it is our duty to take an interest in political ideas because that which is 'political' is by definition that which is human.

The study of politics and power is also what International Studies interrogates: on how states, organisations and individuals across borders advance, resist or organise themselves towards war, peace, cooperation or a better world.

What kinds of things do we study in Politics?

What makes the study of Politics both exciting and interesting is that it involves those problems that are within humanity's power to change: poverty, ignorance, unemployment, despotism, international conflict and war. These are all things that cause more human suffering and damage to the planet than hurricanes, earthquakes, or volcanoes. And they are all things that are in humanity's power to do differently. But to organise social and political life at a national, international or global level differently, we need to understand, to analyse, to read, to debate, to interpret. These are the core activities of students of Politics.

Politics – that is to say, relations of power and subordination – are found everywhere:



and cures of social problems. We might, for example, want to look at the institutions of Politics and how they operate in different countries. How do people run their elections? What kinds of leadership structures exist? Or we might wish to learn about different kinds of political ideology or beliefs about politics such as socialism, liberalism or anarchism for example, and how they differ from one another. If we are interested in maximising human freedom or creating greater social equality then we need to know what we mean by 'freedom' or 'equality' and how thinkers over the centuries have debated these questions.

International Politics

International Politics or International Studies deals not only with the analysis of the relations between states, but also with the political, economic, social, environmental, legal, and health issues that extend beyond national boundaries. All this, with a view to bringing about a world where power is accountable, at peace, learning how to cooperate in ways which recognise and include difference and achieve equity in the relations of states and societies with each other.

in the international relations between states, in the relationships between governments and people, in the private domains of friends, family, clan and kin, in public agencies and private companies, in clubs or corporations. Politics is an inescapable and intrinsic aspect of all collective human activity. To understand human behaviour, then, we need also to understand it politically. And that is why the study of Politics and International Politics is so important.

An interest in power – in who gets what, when and how – immediately suggests further concerns. One of the big questions we ask in the study of Politics is under what conditions is the wielding of power over others legitimate? Those who have power in society control resources – guns, budgets, armies, prisons, labour, sex, people, time, education, status, opportunity, knowledge – and to say that we are interested in problems of legitimacy is to say that we want to know under what conditions this power, and the control over resources that it offers, is acceptable. How can we ensure that power is wielded in such a way that many people benefit rather than a few?

Politics is not simply about institutional processes. Learning and thinking about Politics helps us to live better as individuals – as well as enabling us to think meaningfully about the causes



Why study Politics?

For democratic citizenship to be meaningful the citizenry must be politically educated. 'Politics', as the French statesman Charles De Gaulle put it, 'is much too serious a matter to be left to politicians'. If democracy is to work it relies on an active and informed citizenry who debate laws, who understand questions of justice, rights, ethics and morality. We need citizens who are able to think for themselves and who are equipped to participate meaningfully in public and international affairs. The study of Politics at Rhodes equips students with these critical capabilities and with the knowledge to use them effectively in whichever walk of life they may ultimately find themselves.

Because these capabilities are rare and sought-after, our graduates have found high-level employment in diverse fields ranging from national or provincial government to research institutes, industry to the NGO world, in development, trade, education, journalism, management, law, diplomacy, science and technology. In all these fields the ability to synthesise information, to critically interpret, to clearly articulate complex ideas, to marshal arguments and to understand the social and political context within which human endeavour takes place mean that graduates of Political and International Studies at Rhodes are at an advantage.

Psychology

The subject matter of psychology is people: people from before birth through infancy and childhood, through adolescence and young adulthood to mature adulthood and old age, and, ultimately, people facing death. Psychology attempts to encompass the full range of human experience as it is lived in different political, socio-economic and cultural settings. It examines people's attitudes and motives, both conscious and unconscious. The work of psychologists has many practical applications in organizations, schools, hospitals, clinics and counselling centres. The study of psychology can also be personally enriching, providing insight into your experience of relationships, motivations and goals and emotional life. It also offers guidelines for more skilful living and successful handling of everyday problems in the family, in relationships and in the work setting.

Fields of Study

Some of the important areas of study in Psychology include:

Clinical and Counselling Psychology

The understanding of everyday problems in human living and the development of methods of guiding and assisting people to face such problems. These problems range from difficulties of adjustment to new life situations through to the severe disorders involving psychotic symptoms and disturbances of identity.

Organizational Psychology

The application of psychological research and theory to organizations, including enhancing the work lives of individuals & optimising organisational systems.

Personality

Psychodynamic, humanistic, cognitive and behavioural approaches to understanding personality and personal growth.

Social Psychology

The individual in society, with the emphasis on attitudes, communication and interpersonal and intergroup relations.

Research Methodology

The principles and methods (both quantitative and qualitative) employed by psychologists in undertaking research.

Cognitive Psychology

The study of perception, memory, learning and the development of understanding.

Developmental Psychology

The genesis and growth of personality, of emotions, of intellect and behaviour throughout the lifespan from birth to death.

Biological Psychology

The relation of biological structures and processes to perception, emotions, consciousness, learning, memory and motivation.

Psychological Assessment

The assessment of personality, intelligence, aptitudes, special abilities and disabilities, as applied in Organizational, Clinical, Counselling and Educational Psychology.

Community Psychology

The relationship between the person and his/her social and political environment, as well as the ecological interaction between settings and systems.

Career Psychology

The study of career choice and the stages of career-related behaviour such as pre-entry exploration, job entry and establishment, and preparation for retirement.

Human Resources

The application of aspects of organizational Psychology to managing employees in the workplace, including selection, training/development, remuneration, incentive, and performance management.

Gender Psychology

Approaches to understanding gender issues such as sexuality, masculinities, reproduction, parenting and gender relations in a range of settings.

Psychology and Organizational Psychology Undergraduate Programmes

From the second year of study, students in the Department are offered the choice of majoring in either Psychology or Organizational Psychology. The second and third year courses each include an 18 week practical programme which provides opportunity for training in research, for practical application of concepts learned in the lectures, and for experiential learning.

The Psychology course is recommended for students who intend completing postgraduate training in counselling or clinical psychology or who have a general interest in Psychology. The Organizational Psychology course should prove useful to students who intend pursuing a career in business or industry, particularly those who are interested in human resources work.

The courses are officially recognized for professional training purposes, which means that students may go on to complete postgraduate training and ultimately register as Psychologists with the Professional Board for Psychology.

Building up a Degree Curriculum

Psychology and Organizational Psychology may each be taken as a major subject for a Bachelor of Arts, a Bachelor of Social Science, a Bachelor of Commerce or a Bachelor of Science degree. A major in Psychology requires no compulsory ancillary subjects and is compatible with most other Arts and Social Science courses.

Majors taken with Psychology and Organizational Psychology include Anthropology, Management, Computer Science, English, Human Movement Studies, Journalism, Philosophy and Sociology. Suggestions for building up a degree curriculum are given in the respective leaflets of the Humanities, Commerce and Science Faculties.

FURTHER INFORMATION

Details of the degree structures and requirements, and general information about the University, may be obtained from:

The Registrar
Rhodes University
6140 Grahamstown
Telephone 046 - 603 8214/603 8276



Sociology

Rhodes University is a residential campus in Grahamstown, the cultural capital of South Africa (the National Arts Festival and various School Festivals are held in Grahamstown every year). The University prides itself on its excellent facilities and, because of its relatively small size compared to the larger universities, on the specialised attention staff are able to give to their students. The Department of Sociology is no exception.

Well-qualified staff, with years of teaching and research experience, nationally, continentally and internationally, specialise in providing a learning environment that is challenging and supportive of students. A major emphasis in the Department is the development of hands-on research training. From second year onwards a good theoretical grounding is supplemented with practical research projects, comprising both group and individual work.

Academic Staff

Head of Department

KD Helliker, MA (Memorial University of Newfoundland), PhD (Rhodes)

Professors

JOT Adesina, BSc (Hons), MRL (Ibadan), PhD (Warwick)

JK Coetzee, MA, BD, DPhil (Pretoria)

FT Hendricks, BA (UWC), MSocSci, PhD (Uppsala) (currently Dean of Humanities)

Associate Professor

DD Drewett, MSocSc (Rhodes), PhD (Rhodes)

Senior Lecturers

GG Klerck, MA, LLB (Natal), PhD (Rhodes)

JJ (Monty) Roodt, BA (Hons)(Rhodes), MA (Wits), PhD (Rhodes)

Lecturer

HB Sishuta BA (Fort Hare), MA (Rhodes)

Junior Lecturer

J Chisaka, BSc (Hons) (Rhodes), MA (Rhodes)

Why Study Sociology and Industrial and Economic sociology?

If you want an interesting, relevant major that will be valuable to you no matter what your degree, then Sociology is for you. Sociology 1 is one of the most exciting courses the University has to offer.

Take a look at what it consists of:

- Learn about the great theories of society and see yourself and the world in a whole new way
- Begin to understand yourself as you've never done before by looking at the impact of culture, class and group membership on your values and actions
- See how prejudice, racism, sexism, conformity and deviance are all closely linked to historical and contemporary economic realities
- Learn about families and interpersonal relationships
- Learn how to use sociology to make informed choices about your life, your career, your community and your power to bring about change

Understanding yourself cannot be accomplished without understanding society and that's what Sociology is all about – learning about social life and your place in it. You won't want to stop once you've started. To continue with Sociology as a major subject in your degree you need to choose between Industrial and Economic Sociology or General Sociology at second & third year level.

INDUSTRIAL AND ECONOMIC SOCIOLOGY

An essential major if you want to learn about industrial and workplace issues:

- Human resource management
- Industrial relations
- Trade unions
- Management strategies
- Public relations
- Negotiation & mediation

Combines well with majors in
Economics
Management
Psychology
Accounting
Journalism
Politics

GENERAL SOCIOLOGY

An essential major if you want to learn about society, people, social behaviour, and how to conduct social research. Specialised areas include the family, the media, education, gender, health, politics and development. At present the Sociology 2 and 3 courses are especially geared to understanding the developmental problems faced by South Africa as part of Africa in a globalized world.

Combines well with majors in
Psychology
Economics
English
Politics
International relations
History
Education
Law
Journalism

No matter what career path you may have planned, Industrial and Economic Sociology and General Sociology provide you with invaluable practical and critical thinking skills that will prove indispensable to your success at university and in your chosen career.

Undergraduate Curricula: General Sociology and Industrial and Economic Sociology

Sociology 1

The first half of the first year course is devoted to introducing students to the concepts (i.e. language) used by sociologists as well as the theories they employ when analysing society. Many students have not encountered Sociology in their studies prior to university, so the first question that the course looks at is: 'What is Sociology?' We then move on to look at social inequality and institutions (such as the state, the family, education, the media and the economy). During the second half of the first year, we look at topical issues such as deviance, population, urbanisation, globalisation, the environment, gender, sexuality, poverty, social and cultural change. South African examples are used throughout the course.

General Sociology 2

The second year in General Sociology consists of four courses. Two of these are chosen from specialised areas such as Health, Sociology of Developing Societies, Race and Class; Environmental Sociology: Crime and Deviance; the Sociology of Politics; Family Sociology; the Sociology of Language; Mass Communication; Migrant Studies; Education. The remaining two courses consist of a Classical Social Theory course, and a course on Research Methods.

General Sociology 3

The final year of General Sociology broadens and deepens your understanding and knowledge by offering a course on Contemporary Social Theory as well as one on Research Methodology. In addition, two specialised area courses are offered from a list that includes the Sociology of Identity, Sociology of Education; Gender Studies; the Sociology of Religion; State and Society; the Sociology of Work; the Sociology of Law; Environmental Sociology; Sociology of Culture; and Critical Issues. You are also taught practical research skills and will undertake a research project with one of the lecturers in the Department acting as your supervisor.

Industrial and Economic Sociology 2

Three courses providing greater insight and understanding of industrial society are: Classical and Contemporary Theories; Trade Unions and Comparative Labour History; and Work Organisations. A fourth course on Research Methods provides students with the theoretical and practical tools to undertake quantitative social research.

Industrial and Economic Sociology 3

At third year the social research experience of students is deepened through a Research Methodology course, with an emphasis on qualitative research. The other courses offered are normally Sociology of Work, Industrial Relations and the Sociology of Labour Markets, but other specialised areas of study may be selected, including Development and Industrialisation; Critical Management Studies; State, Law and Labour; Contemporary Capitalism

and Globalization; Advanced Theories of Contemporary Industrial Society; the Political Economy of the Industrial State; Social Research in Industrial Societies; Urban Sociology; Advanced Labour History; Labour in the Developing World; Work Organization in Eastern Europe; and Critical Issues. You are also taught practical research skills and will undertake a research project with one of the lecturers in the Department acting as your supervisor.

Postgraduate Programmes

The Department offers:

AT HONOURS LEVEL:

Industrial and Economic Sociology or General Sociology or Development Studies.

Students are able to take four papers offered by the Department in the streams listed below. Not all courses will be offered every year. With the approval of the Head of Department, students may take papers in other departments. In addition to the four written papers, students entering these programmes will be afforded the skills and expertise to undertake and complete a research dissertation.

INDUSTRIAL AND ECONOMIC SOCIOLOGY

- Research Methodology (compulsory)
- Trade Unions
- Industrial Relations
- Industrial and Economic Policy
- Advanced Sociology of Work

GENERAL SOCIOLOGY OR DEVELOPMENT STUDIES

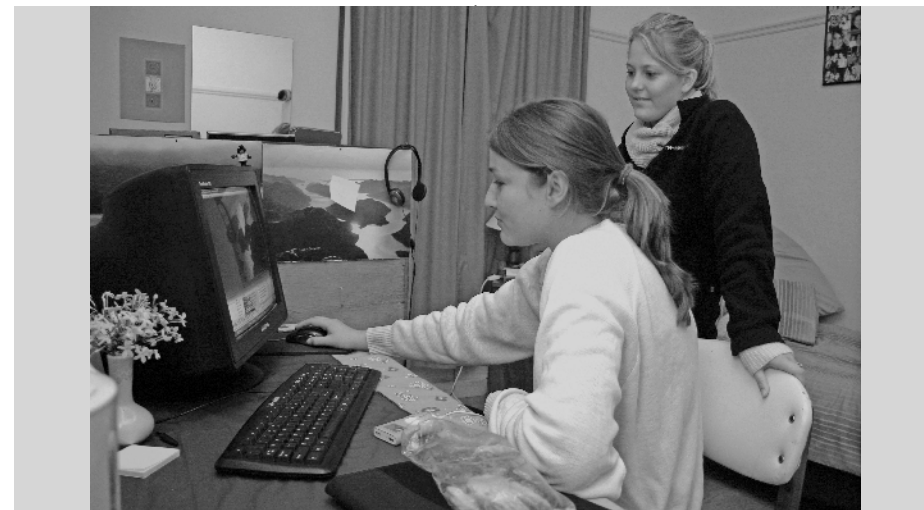
- Research Methodology (compulsory)
- Sociology of Development
- Gender Studies
- Environmental Sociology
- Social Policy in Development

AT MASTER'S LEVEL:

The Department offers a Master's degree by thesis on a wide range of research areas, ranging from Industrial and Economic Sociology to Gender, Family, Narrative Study of Lives and Development. The Department has a strong connection with and focus on Africa.

DOCTORAL DEGREES

A Doctoral Degree (PhD) in either Sociology or Industrial and Economic Sociology may be taken by thesis.



Statistics

At Rhodes we consider a Statistical knowledge to be essential for the majority of students and hence we offer Statistics in almost all degrees, as introductory courses and as courses for those intending to be Statisticians. We structure our courses to best complement the degree in which the course is being taken. In our Department, there is close interaction between students, tutors and staff.

What courses do we offer?

Undergraduate Courses

At the first year level, we offer a number of introductory courses; these are usually taken as one or two semester credits. Commerce students should consider doing Theory of Finance (STA 140) and Statistics 1D (STA 130). Sciences, Pharmaceutical Science and Life Science students could consider Statistics 101 (STA 101) and Statistics 102 (STA 102).

If you wish to major in Statistics, you should consider doing Mathematical Statistics 2, followed by Mathematical Statistics 3 or Applied Statistics 3. These courses commence in your second year and to register for the course you will need to have completed some mathematics and/or statistics courses in your first year.

If you choose to major in Statistics, you will be able to adapt the focus of the course so as to match your field of interest. In the second and third year, we offer both business topics as well as topics more suited to science students.



Postgraduate Courses

After graduating with Statistics as your major, you may choose to study for Honours, Master's and Doctoral Degrees. The Honours course is completed by coursework and ordinarily takes one year of full time study. The course is very flexible, and allows you to choose subjects from a variety of modules.

The Master's course can ordinarily be completed in two years and may be taken either by thesis or by a combination of coursework and thesis. Modules offered at Honours and Master's level include: Econometrics, Linear Models, Multivariate Analysis, Probability Theory, Stochastic Processes, Time Series Analysis, Survey Methods and Sampling Techniques, Stochastic Calculus in Finance, Queueing Theory and Simulation, Neural Networks and Applied Data Analysis.

Staff

Associate Professor and Head of Department:
G Jäger, PhD (University of Karlsruhe)

Professor of Statistics:

SE Radloff, MSc, PhD (Rhodes)

Associate Professor:

I Szyzkowski, MSc, PhD (Maria Curie-Sklod)

Senior Lecturers:

JS Baxter, MSc, PGDHE (Rhodes)

LJ Bangay, MSc, HDE (Rhodes)

Lecturers:

R Sypkens, MSc (UFS)

L Njovane, MSc (Rhodes)

L Raubenheimer, MCom (UFS)

Course Outlines (First year courses)

Statistics 1D (STA 130)

Summarising and describing data
Probability and probability distributions
Modern statistical inference
Linear regression and correlation
Time series analysis
Index numbers

Statistics 101 (STA 101)

Numerical and graphical summaries of data
Probability and probability distributions
Modern statistical inference
Linear regression and correlation
Analysis of variance
Goodness of fit and tests of association

Statistics 102 (STA 102)

Factorial design analysis of variance
Multiple regression analysis
Questionnaire design and analysis
Non-parametric procedures
Computer based analysis

Theory of Finance (STA 140)

Simple interest and discount
Compound interest
Simple and complex annuities
Loans
Depreciation
Securities
Linear Programming
Elementary Calculus

Course Outlines (Second year courses)

Mathematical Statistics 2 (MST 201 and MST 202)

Probability
Random variables and standard univariate distributions
A selection of topics from: risk theory, decision theory and simulation, functions of random variables, sampling distributions, estimation, tests of hypotheses, correlation and linear regression, design and analysis of questionnaires, time series analysis and econometrics.

Course Outlines (Third year courses)

Mathematical Statistics 3 (MST 301 and MST 302), and Applied Statistics 3 (AST 302)

Distribution theory
Multivariate normal distribution
The general linear model
Non-linear regression
Analysis of variance
A selection of topics from: limit theorems, applied stochastic processes, Bayesian statistics, modern multivariate statistical procedures, financial statistics and quality control.

Postgraduate Profiles

Honours student – Nathi Gama (2000–2004) – Statistics South Africa

'It all started out as a means to acquire basic statistics literacy at university and just another semester credit. Although I had developed a liking for statistics at high school I still had a fairly tough time with concepts like that of probability. It dawned to me that my future lay with statistics when I enrolled for stats in my second year. I enjoyed the wonderful and structured tutoring environment which starts from first year through to Honours level. The healthy lecturer-student ratio also allowed for informal tutoring whenever required by students at group or individual level. My major highlights were the Multivariate Analysis practicals, at Honours level, which led to many late nights in the labs, and also tutoring first years. Acquiring an Honours degree at Rhodes has prepared me well for a successful career in statistics, with my main interest in Survey Methodology and Sampling Techniques.'

Master's student – Elistan Nicholas Glover (2003–2008)

'At school I really enjoyed Mathematics and wanted to pursue it further at university level. I studied both Mathematics and Statistics but I quickly decided that Statistics was the best choice because it is more applicable and presents better career opportunities. I started with Statistics 101 and 102 and then continued with Mathematical Statistics from my second year onwards. I really enjoyed the courses as they provided a new way of thinking and approaching problems. The small size of the department is one of its greatest assets. You never feel like you are a number but instead like a valued part of the Stats family. The academic staff are very friendly and always willing to help you if you have any problems with the course. Having tutored students in Stats, the concepts that I learnt as an undergraduate student were reinforced and I feel that the knowledge that I have acquired will be indispensable later in my career. I am currently studying towards my MSc in Mathematical Statistics and concentrating on the areas of Stochastic and Financial Calculus.'

INTERESTED?

If you want to know more about this powerful and versatile study option you can:

Surf our web at <http://www.ru.ac.za/statistics/> • e-mail us at stats@ru.ac.za
Write to us at: Department of Statistics, Rhodes University, P O Box 94, GRAHAMSTOWN, 6140
Phone us on: (046) 6038346 (South Africa, +27) • Fax us on (046) 6222723

We look forward to hearing from you.

Zoology & Entomology

Introduction

Zoology at Rhodes dates back to 1905, and Entomology was first offered as an independent major subject in 1948. The department has a long tradition of excellent research, while the staff is also committed to a high standard of teaching. Our graduates have a broad grounding in Zoology and Entomology, which enables them to specialise successfully in a wide range of fields within these disciplines.

Career opportunities

Zoologists and entomologists undertake careers in the fields of environmental science, medical science, veterinary science, conservation, game management, economic entomology, journalism, and environmental law. Many become scientists working in the research sections of conservation organizations, biotechnical industries, research councils, universities and museums. Marine biology includes opportunities in some of the above-mentioned fields as well as in sea fisheries, oceanography and marine resource conservation.

When we recently traced our MSc and PhD graduates, we found that most of them are working within southern Africa, and almost all of them within the general field of animal biology. This included nature conservation and resource management, agricultural research, environmental impact assessment, production of natural history films, aquaculture, and various aspects of ecotourism, as well as filling more traditional posts in universities, research institutes and museums. In addition many graduates have used their degrees as a springboard into the international environment.

While potential zoologists and entomologists should not think that careers are all about diving with humpback whales in balmy seas, taming malaria in exotic localities, or monitoring penguins in the Antarctic, there is an exciting career choice and there are always chances to find yourself doing something unusual and exciting. There are opportunities for work and postgraduate study both in South Africa and

overseas and many practising zoologists do get the opportunity to travel internationally regularly and to work on unusual animals.

Undergraduate subject curricula

The first year course, comprises two semester credits, Cell Biology (CEL 101) and Animal Diversity (ZOO 101). These courses provide students with a basic knowledge of how cells and animals work. They explore topics like cell structure, cell processes, basic genetics, parasitology and animal diversity. At the second and third year level, major courses can be taken in Entomology and in Zoology. These curricula have been designed to offer a wide spectrum of career directions emphasizing hands-on work in the field and the laboratory through field trips and weekly practical work.

SECOND YEAR CURRICULUM

ZOO 201 Principles of Ecology & Evolution

Processes driving populations and communities

ZOO 202 Environmental and behavioural physiology

How animals respond to their environment

ENT 201 Professional entomology

Insect diversity and physiology

ENT 202 General insect biology

Agricultural, medical and aquatic entomology

THIRD YEAR CURRICULUM

ZOO 301 African Zoology; land animals and life histories

Biogeography, diversity and adaptations to different African habitats. This course also includes lectures on evolution and speciation theories

ZOO 302 Marine biology

Ecology of shores and oceans

ENT 301 Applied insect ecology

Agriculture, forensic entomology and biocontrol

ENT 302 Environmental entomology

Conservation, biological monitoring and aquatic entomology

Features of these curricula include:

- **FIELD TRIPS**, in which students hone their skills over several days in a local game reserve.
- **RESEARCH PROJECTS**, in which third year students are responsible for conducting publishable field or laboratory research on an animal or topic of their choice.

Profile: Gareth Whittington-Jones



I was well acquainted with Rhodes University and the Zoology & Entomology department in particular by the time I commenced my university studies in 2000 as my three elder brothers had all received numerous degrees through the department. Despite my familiarity with Rhodes I started my first year nervously as I was not sure if I was capable of making the seemingly large step up between school and university education, particularly as I was enrolled to take chemistry and statistics, neither of which were strong points. Fortunately as my undergraduate career progressed and the subjects became more focused and interesting I began to enjoy the academic side of university life.

I majored in zoology and entomology before completing my honours in African vertebrate biodiversity. The honours course presented a serious challenge intellectually and in terms of the amount of work required yet it was incredibly stimulating and thoroughly enjoyable as it promoted interaction with an eclectic mix of experienced fellow postgraduates and staff members. Honours also provided me with the first real taste of conducting independent field research at local game reserves. The relatively recent development of a plethora of local reserves now affords third year and postgraduate students unparalleled access to some of the best research sites in the country and the opportunity to get involved with an array of exciting wildlife-related research projects.

After honours I spent an educational few months working as a biocontrol field and laboratory technician under the guidance of Prof. Martin Hill before heading to the UK. Following nearly a year of travelling and unfulfilling but eye-opening hotel work I was delighted to accept an offer to return to Rhodes to undertake an MSc investigating the role of aardvarks in arid and semi-arid ecosystems. I was lucky enough

to have a supervisor who encouraged his students to think and act independently and that proved to be of enormous benefit once I started my career. However, I was not alone in having access to excellent mentors and one of the standout qualities of the department is the commitment of staff members to developing students who demonstrate a desire and willingness to improve themselves and their academic performance.

After I completed my MSc I spent a few more months working in the department before once again heading to the UK where I first worked in an office and then engaged in a short but enjoyable stint of gardening for the rich and lazy. Whilst developing my green fingers and contemplating how to build a career I was fortunate enough to be offered a short-term contract as an ecologist with a team of environmental consultants, based in the Sultanate of Oman, who I had approached through a friend from the Zoology and Entomology department.

The trial period turned into a permanent position and now my primary role within the company is designing, managing and conducting ecological surveys for environmental impact assessments and environmental baseline surveys. The most enjoyable aspect of my job is undoubtedly spending time in the field conducting wildlife and vegetation surveys. Oman is an intriguing and surprisingly diverse country with rugged mountains, enormous dune fields, vast gravel plains and a beautiful coastline. Just as travelling around South Africa was one of the benefits associated with my MSc, it is similarly a major attraction of this job as I have been afforded the opportunity to visit and explore many places in Oman and the UAE which relatively few other people get to experience. My work is often challenging, sometimes frustrating but mostly enjoyable and I would like to think that it plays at least a small role in helping to conserve the incredible natural environment of this country.

The Rhodes Zoology and Entomology department produces a continual stream of astute graduates and postgraduates. In addition to providing an excellent environment to stimulate academic development, the department is equally adept at fostering significant personal development and friendships. I look back with great fondness at my time at Rhodes and I am immensely grateful that I was afforded the opportunity to study

in the Zoology and Entomology department; I firmly believe that the skills I learnt and the friends I made there will stand me in excellent stead for the rest of my career.

Profile: Dr Tammy Smith



I started a BSc at Rhodes in 1991 and chose to do zoology, botany, geology and chemistry in my first year. Zoology was something I was sure that I wanted to do so that was an easy choice, but I was unsure of my fourth subject and in the end decided to try geology. Although I enjoyed the first year course it was not a field that I wanted to continue in and at the end of my degree I majored in zoology and microbiology. The smaller sized classes at Rhodes allowed for more personal interaction between the staff and students which I believe was very beneficial and allowed students to appreciate the biological sciences more fully.

I was happy with my choice of courses but looking back I regret that I did not take entomology as a major rather than microbiology. I think that the Rhodes entomology department is excellent and has, over the years, produced many of the top entomologists in this country.

After my degree I continued at Rhodes doing an Honours in zoology which was probably the year I enjoyed most. Although it was tough and required a huge amount of hard work and dedication to get through it, the research projects we did were fantastic and these had a big influence on me wanting to continue with a postgraduate degree. We had a great Honours class and were often involved in helping each other with field and lab work all of which provided a very stimulating learning environment.

After Honours I went overseas for a year and spent the time working in odd jobs and travelling. At the end of this period I returned to Grahamstown, mainly because my boyfriend (now my husband) was still at Rhodes. I was lucky and an MSc project that I was interested in was available and before I knew it I was registered to do an MSc in entomology. It was a field based project investigating the biological control in agricultural pests. The project taught me about perseverance and patience, working with living systems is not easy and you are rarely in control so things always take longer than you expect. My supervisor was a huge support and was always interested in his students and provided endless encouragement. It was mainly due to this

support that I felt confident enough to upgrade my MSc to a PhD.

The next five years were challenging but I had some great opportunities including two trips overseas firstly to work in a lab in France and then to attend a conference in Australia. It was not easy, as I had never excelled academically, but my success came through hard work and a will to achieve. Rhodes provided me with an ideal environment to do just this as the support and willingness of the staff and my fellow students made it achievable.

After I finished my PhD I found myself in Pretoria looking for a job as Mark, my husband, had gotten a post there. While doing my PhD I realised that I didn't want to continue my career in research and was more interested in finding something where I could use the skills gained during my PhD in an applied environment. In 2003 I got a short-term contract post at the National Botanical Institute (NBI) in Pretoria working on a project involving training and capacity-building within herbaria across southern Africa. In 2004 the national Biodiversity Act was promulgated and the NBI underwent a change to become the South African National Biodiversity Institute (SANBI). The Biodiversity Act provides for the management and conservation of South Africa's biodiversity and SANBI is mandated to assist in implementing this Act. I was successful in getting a post in the Biodiversity Directorate at SANBI and am now in the Bioregional Policy and Monitoring Unit. A large portion of my work involves developing national policy for implementing the Biodiversity Act. I am also involved in mainstreaming biodiversity into land use planning and decision-making which involves ensuring that biodiversity is taken into account in the plans and decisions made in other government departments and municipalities. Our aim is to ensure that South Africa's critical areas for biodiversity are conserved but without compromising development within the country. I love what I do and find it incredibly rewarding and enjoy the fact that I work with a wide range of people.

I owe a lot to the skills and training I received while in the department, not only academically but also personally. A lot of the choices that I have made were a result of taking opportunities that arose and I gained a huge amount of confidence while at Rhodes. And lastly, the friends that I made while doing my postgraduate studies in the department are still the closest friends I have even though we are scattered around the world.

Rhodes Music Radio

RMR 89.7fm is the oldest campus based community radio station in South Africa with a long and very proud history. If you are looking for a valuable, challenging but hugely fulfilling experience find your way to the RMR studios in the Stephen Bantu Biko building. Boasting an industry standard set up and technology, RMR is truly a pool of some of the country's leading media professionals!

Broadcasting 24 hours a day, RMR brings you a diverse, experimental but informative and socially conscious listening experience. The station caters for a variety of music tastes from your Top 40 hits, to underground hip-hop from local and international artists, gospel, local and international rock, jazz to putting you in the driving seat through request shows. More than that, we are driven by the mission to serve Grahamstown's young people through a high quality, informative, socially-involved and reflective product that represents and speaks for Grahamstown. News, sport and current affairs feature as a big part of the station as well & are delivered in English, Xhosa and Afrikaans to make sure you don't miss a single thing. So not only is the station part of a vibrant, dynamic youth culture with the latest in fashion, music, entertainment and technology but we are all about growing and taking our listeners with us! Tune into 89.7fm, find out what we are all about and join the revolution! Look

out for RMR events, parties and community engagement projects as we get young people and their minds and energy together to do something big and worthwhile.

So if you think you have the potential to the next big thing on the RMR Breakfast or any other part of our diverse station, come in and see us! We recruit for new staff members in February/March and again in August/September every year where you can take your chances at getting involved with the exciting world of radio. We have a host of on- and off-air roles (newsreaders, sports presenters, reporters, producers, music presenters, designers, web technicians) that you can apply for and try your hand at. Keep a lookout for the recruitment posters, emails, adverts - just don't miss them! You could be the next Metro Fm & Yfm's Unathi Nkayi, Highveld Stereo's Jeremy Mansfield, Sfm's Robin Vember, Mlu Dlukulu, Nicole Fox or 702's David O'Sullivan because RMR was the launch pad for their successful media careers!

If you don't believe us tune into 89.7fm or pick up our international audio stream from www.rhodesmusicradio.co.za. Welcome to Grahamstown's Youth Station, RMR!



Student Volunteer Programme

Whether through service learning, departmental projects, residence initiatives or clubs and societies, there are many avenues for students to get involved with the community during their time at Rhodes University.

Well over 30 Rhodes University Departments, Institutes or Affiliates are involved in community engagement at the level of policy formulation, research and advocacy. Through reciprocal partnerships, projects engage with issues around education, the environment, development, poverty and the use of resources. Some initiatives deal directly with government at all levels, others support the work of NGOs and other community organisations, providing considerable resources at grass roots level.

Student Volunteer Programme

Rhodes University's exciting Student Volunteer Programme, based at the Centre for Social Development, is now in its eighth year. It gives Rhodes University students an opportunity to go beyond their academic environment and take



Nine departments have integrated community service into the curriculum in a variety of service learning projects.



A student volunteer helping to start a food garden at a local school

their particular skills to NGOs, CBOs and schools in the Grahamstown community.

With over 25 projects, the opportunities to volunteer are vast and various. Whether to use skills to design posters, to reach out to children in need or lend an essential hand in administration, there is a place for everyone to get involved. In the past, students have done everything from tutoring to sports coaching, developing herb or food gardens to running drama and dance classes for youth. Whatever contribution students feel they have to offer, the Student Volunteer Programme has a place for students who are willing to make a difference in the lives of those that need it most.

Any student who commits to the Volunteer Programme volunteers for at least an hour once a week during term time. If they have not participated before, they will attend a series of introductory workshops designed to prepare them for situations they will encounter. Workshops, talks and fundraisers take place throughout the year. A year end function recognises student volunteers for their contribution.

Contact: svp@ru.ac.za

General Information

Sports Administration

From basketball to rowing, mountain climbing to cricket, and underwater diving to soccer, Rhodes University has a large number of active sports clubs for you to choose from. The wide range of activities is well supported by excellent competitive and recreational facilities and equipment, and students are able to experience and participate in pursuits not offered at school. All the sports facilities are located on campus and within easy walking distance from the residences.

Involvement in sport at Rhodes holds the promise of opportunity, achievement, enjoyment, the establishment of lifelong friendships and, above all, a well-rounded university experience.

If you're serious about your sporting and recreational pursuits and also want to experience the enjoyment and camaraderie that sport can provide, Rhodes University is the place for you!

Sports people at Rhodes form a closely knit community. The friendly, intimate experience of the campus makes it easy to meet new people, and each sports club is a centre of social activities with meeting, practices, fixtures and fun events organised by students who are assisted by professional sports administrators.

All students are automatically members of the Sports Council and as such are entitled to make use of the excellent facilities provided. All levels of sport are catered for, enabling both competitive and recreational sports people to fulfil their sporting ambitions. In addition, the inter-residence programme remains popular.

There are some 30 clubs on offer covering a wide variety of interest areas and students are encouraged to take part on a social, recreational or competitive level.

Contact Sports Administration:

Tel: 046 603 8366, 046 622 3358; Fax: 046 622 9704; Website Link: www.ru.ac.za/sport

Head of Sport	Mr Roger Adams	r.adams@ru.ac.za
Deputy Head	TBA	
Senior Sports Officer	Mr Kerr Rogers	k.rogers@ru.ac.za
Sports Officer	Mrs Glynis de Long	g.delong@ru.ac.za
Health Suite Manager	Ms Janet Kelly	j.kelly@ru.ac.za

Financial Sports Awards

Financial Sports Awards are made at the end of each year. The awarding of these is based on the achievements and performance of a student throughout the year at Rhodes University. These financial Sports Awards range from R2500 to R7500 and are awarded in October each year. Two Sutherland Old Rhodian Scholarships are awarded to students registering at Rhodes for the first time, and are valued at the current BA degree tuition fee. Forms can be downloaded from the Rhodes Sport web page, www.ru.ac.za/sport and must be submitted to the Sports Administration department by the end of September each year.

Facilities

Rhodes University boasts a vast number of sports facilities, all of which are available to students. Access to most of the facilities is free, although student cards must be produced as a means of identification. The facilities may be accessed at any time except during specified Club times.

Rhodes University provides the following facilities:

1 Swimming Pool	1 Table Tennis Hall
1 Multi-user Clubhouse	9 Tennis Courts (6 floodlit)
2 Floodlit Rugby Fields	1 Indoor Climbing Wall
1 Beach Volleyball Court	9 Squash Courts
2 Cricket Fields	1 Basketball, Volleyball & Badminton Hall
1 Martial Arts Dojo	1 Rowing Tank
1 Floodlit Artificial Hockey Surface	1 Outdoor Floodlit Basketball & Netball Court
1 Rowing / Sailing / Canoe Clubhouse at Settlers' Dam	1 Floodlit Grass Athletics Track
1 Health Suite (Weight Training, Spinning, Aerobics)	1 50m Floodlit Rifle Range
3 Floodlit Soccer Fields	1 100m Floodlit Archery Range

Health Suite

The Rhodes Health Suite is managed by a full time member of staff, the Health Suite Manager, who is available to assist members as required. The Health Suite is comprised of a weight training facility as well as an aerobics studio and a spinning/indoor cycling section. The weight training facility offers cardiovascular, circuit and free weight training and staff are available to assist with training programmes. There are approximately four aerobics and five spinning classes per day during term time, which are led by qualified instructors.

Aikido

Aikido is a Japanese martial art which focuses on the soft throwing techniques rather than hard defensive countermeasures. The art focuses on the concept of harmony, not only in movement, but also in the way in which we deal with nature and our fellow human beings.

Aquatics

The Aquatics Club offers a wide range of water activities on campus: swimming, men's and ladies' water polo and beginners' swimming. The Club's affiliation to Eastern Province and Border enables regular league competitions as well as numerous social fixtures.

Archery

The Archery Club caters for both beginner as well as advanced archers. The Club has access to a 30, 50, 70 and 90m range. Equipment is provided and qualified coaches assist members. The more competitive members participate in the Eastern Province Championships, South African Nationals, Tri-varsity, Indoor Championships as well as other postals and other shoots in the Eastern Cape. All forms of Archery are practiced including standard bow, compound and recurve. Adult or junior, the Club welcomes all.

Athletics

The Rhodes Athletics Club caters for athletes interested in road running, cross country, track & field, duathlon, triathlon and biathlon. The Club organises regular training runs. The members compete in Eastern Province Athletics Union events, as well as races further afield such as the Comrades and Two Oceans Marathons. The Club is also affiliated to SASSU Athletics, which enables its members to compete against other tertiary institutions in South Africa.

Badminton

The Badminton Club practises twice a week on four indoor badminton courts. All equipment is provided and members are assured of getting plenty of court time. The Club is affiliated to Eastern Province and competes in the EP League, and against neighbouring universities.

Basketball

The Rhodes Basketball Club competes successfully in the Eastern Province and Campus Basketball Leagues. There is one indoor court at Rhodes with a sprung wooden floor, and an outdoor, floodlit, all weather surface. The facilities are available for use by all Rhodes students. The Club provides numerous players, on an annual basis, to the Eastern Province senior and Eastern Cape students' teams.

Canoe

The Rhodes Canoe Club caters for both the social and serious canoeists, with members training at Settlers' Dam. The Club is affiliated to the Eastern Province Canoe Union, which has a full race calendar through the year. Members travel across the whole country to all major races.

Chess

The Rhodes Chess Club is affiliated to SASSU Chess and Eastern Province Chess. The Club provides chessboards and sets, clocks and coaching books. The Club competes in all tournaments organised by either of the two bodies it is affiliated to as well as open tournaments. The Rhodes Chess Club hosts an annual Open Tournament at which players from across the Eastern Cape compete against each other.

Cricket

The Rhodes Cricket Club competes successfully in both the Eastern Province and Grahamstown Leagues. The First XI are dominant in the Nelson Mandela Bay Premier League, while we have two sides competing in the Grahamstown First League. In addition a Fourth XI competes in the Grahamstown Second League and the Club participates in both the Grahamstown Night League and the annual Pineapple Tournament. A number of players have represented Border/EP at the senior and Colts level while the Second XI regularly provides players to the EP Country District Team. Rhodes competes successfully in the SASSU Cricket Week held in December each year. The women's First XI cricket team practices regularly and plays friendly fixtures.

First Aid

The First Aid Club was formed in 1998. The Club is affiliated to St John Ambulance Foundation Courses are run to train members at both elementary and more advanced levels each year. Practical experience is gained through providing first aid at university sports matches.

Fly Fishing

Rhodes University Fly Fishers was formed in September 1994. The Club has grown in size and reputation over the past few years with organised events including fly fishing evenings, video shows, casting clinics and trips to both salt and fresh bodies of water. Annual trips include visiting dams in King Williamstown, Maclair, Hogsback, Queenstown and local dams around Grahamstown.

Goju Ryu

This Martial Art discipline focus on self-defence techniques, using ancient martial arts approaches. It also introduces students to the use of classical and modern weapons, Qi Gong healing exercises, throwing and groundwork techniques.

Golf

The Rhodes Golf Club offers exciting opportunities for competitive and social golfers. Events and tournaments include Night Golf, Tri-varsity and the SASSU Golf Tournament.

Hockey

The Rhodes Hockey Club is the biggest competitive club on campus, fielding 3 men's and 4 ladies' teams in the Eastern Province and Grahamstown Leagues. We are the only club to have both our 1st and 2nd men's and ladies' teams in the EP Premier League, whilst also catering for a social hockey league. We

are fortunate to have our own artificial hockey surface, which provides outstanding opportunities for our players. The Club provides numerous players to Eastern Province and South African teams and is competitive throughout the leagues.

Kung Fu

Based on the Cobra, this is a practical form of self-defence, which leads to the development of a sense of awareness. The Rhodes Franchento Kung Fu divides their training sessions into beginner & advanced classes, with each group training 3 times a week. Also included are lessons in Goshin Ruy Ju Jutsu.

Mountain

The Mountain Club is one of the largest clubs at Rhodes. Hikers and climbers of all levels of proficiency are catered for. The Club provides climbing and hiking equipment to members, and hikes and climbs are arranged for weekends and vacations. There is organised indoor sport climbing twice a week and the Club members compete in local and national climbing and hiking competitions.

Netball

Netball is popular with students both on a social and competitive level. The Rhodes Netball Club is affiliated to the CACADU and Eastern Province Leagues. This Club consists of highly competitive men and women and it continues to grow from strength to strength.

Pool

Pool is popular with students both on a social and competitive level. The Rhodes Pool Club is affiliated to the Grahamstown and Eastern Province Leagues. This Club consists of highly competitive men and women and it continues to grow from strength to strength. All club activities are hosted on campus at the 'Purple Horse' where its tables are housed.

Rifle

This is the only university club of its sort. It caters for both beginners as well as advanced shots. The Club supplies all necessary equipment and ammunition is partially subsidised. The Club participates in shoots in Cape Town, Grahamstown and the Nationals in Bloemfontein.

Rowing

Rhodes is the premier university boat club in the country, dominating both tertiary and national rowing events. The Club enjoys excellent support from the University and attends all major national regattas around the country. Training is done on the Settlers' Dam outside Grahamstown and on the Kowie River at Port Alfred. Many oarsmen and women have represented national crews at both the senior and U/23 levels and we continue to draw top junior oarsmen and women to the university.

Rugby

The Rhodes University Rugby Football Club is affiliated to the Eastern Province Rugby Football Union, and participates in the EP U/21 League. The Club has a 1st XV, 1st Reserve team and U/21 teams. The University has two floodlit fields. In the past Rhodes has been well represented in the Border U/19, U/21, and 'A' teams. The club has a very active Touch Rugby section which organizes a highly successful touch rugby league and an annual tournament.

Sailing

With the Rhodes Sailing Club's 3 sprogs, 6 windsurfers, 4 lasers and a fireball we venture forth into new and exciting waters. The Club competes annually in the SASSU Sailing regatta as well as regional and provincial regattas. Activities take place on the nearby Settlers' Dam to where aspirant sailors are transported.

Soccer

There are 18 men's and 12 active women's teams that take part in the Rhodes Internal Soccer League. From these, teams are selected to represent Rhodes at inter-tertiary and inter-club matches. The selected Rhodes soccer teams compete in the SASSU Soccer annual tournament as well as the Makana Football Association.

Squash

The Rhodes Squash Club caters for both competitive and social players – with 8 teams (men's and ladies') participating in the Port Elizabeth and local Grahamstown Leagues. The Rhodes Ladies' Internal League ensures regular matches for all levels of ladies. Training sessions are held on a team basis. Members are encouraged to participate in Graded Tournaments in Port Elizabeth, to ensure selection to provincial sides. The Club is very proud of the unique social atmosphere it has created after matches in its clubhouse, the Cowpat.

Surfing

The Rhodes Surf Club is a social surfing and body boarding club, which welcomes members of any skill level. Several internal competitions are held to select a Tri-varsity and SASSU team, but apart from these, lifts ferry surfers to the beach every week. The local break is in Port Alfred (55km from Grahamstown), where surf is particularly consistent and those dedicated enough to get there are seldom disappointed.

Table Tennis

The Table Tennis Club practises twice a week with all equipment and coaching provided. Beginners and more experienced players are catered for with Eastern Province Table Tennis affiliation, providing top players with league and tournament exposure. The Club also competes with other tertiary institutions through participation in the annual SASSU tournament and Tri-varsity.

Tae Kwon Do

The Tae Kwon Do Club is the biggest martial arts club on campus. The Club holds 2 practice sessions per week for both advanced and intermediate/novice members. The Club is affiliated to the Phoenix Federation in the Eastern Cape and their members compete at various national events.

Tennis

The Rhodes Tennis Club has nine courts which are floodlit. There are official men's and ladies' club practices and qualified coaches assist members. The Club competes in the PE & District and Grahamstown Day & Night Leagues. Rhodes also competes successfully in the SASSU Tennis tournament held in December each year. A number of Rhodes students have represented both Eastern Province and the South African Students' Teams.

Underwater

The members of the Rhodes Underwater Club play underwater hockey and do scuba orienteering at social, club and provincial levels. The Club also offers a wide variety of (NAUI) training courses from beginner to dive master. Limited club equipment is available to its members.

Volleyball

The Rhodes Volleyball Club is affiliated to the Eastern Province Volleyball Union and has both a men's and ladies' team which compete in the EP League. The teams practise twice a week and qualified coaches assist members. The Club provides numerous players, on an annual basis, to the Eastern Province senior and Eastern Cape students' teams. The Club boasts a beach volleyball court, which is available for use by all students.

Travel to Grahamstown

Grahamstown is situated on the N2 between Port Elizabeth and East London. Many students travel to Grahamstown by bus. The closest airport is in Port Elizabeth and the University provides free transport to and from this airport at the beginning and the end of University terms.

How to contact us

Address all post to:

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Please note: In the past we have had problems with mail not reaching its destination. If you have not had a reply from us within four weeks, please call to enquire about your application.

Visit our website: <http://www.ru.ac.za>

Notes

Notes

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