

UNIVERSITY OF THE FREE STATE

2017
GRADE 9 SUBJECT CHOICES

#STUDENTLIFE

KICK-START
YOUR 'I-WANT-TO-BE'



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UNIVERSITY OF THE
FREE STATE
UNIVERSITEIT VAN DIE
VRYSTAAT
YUNIVESITHI YA
FREISTATA



START

FINISH

WRITE DOWN YOUR DREAMS, GOALS,
VALUES, AND PASSIONS

RESEARCH
YOUR OPTIONS

CHOOSE YOUR SUBJECTS
IN GRADE 9

WORK HARD IN
GRADE 10 & GRADE 11

RESULTS OF END OF YEAR EXAM IN GRADE 11 ARE
REQUIRED FOR APPLICATION
AT A TERTIARY INSTITUTION

WRITE NBTS
(NATIONAL BENCHMARK TESTS)

**APPLY FOR STUDIES, BURSARIES / LOANS /
SCHOLARSHIPS IN GRADE 12.**
KEEP YOUR SUBJECT CHOICES, ADMISSION
REQUIREMENTS, AND CLOSING DATES IN MIND

NSC EXAM AT
THE END OF GRADE 12

PASS 7 SUBJECTS OF WHICH
4 MUST BE 50% AND HIGHER

**YOUR
'I-WANT-TO-BE'
CAN BECOME A
REALITY**

**IT'S UP TO
YOU, TO MAKE
THIS
HAPPEN!**

FREQUENTLY CHECK IF YOUR DREAMS, GOALS,
VALUES, AND PASSIONS ARE IN LINE WITH YOUR
CAREER PATH

FOLLOW
YOUR CAREER PATH

**CLIMB THE CORPORATE
LADDER** THROUGH CONSISTENT
HARD WORK AND PERSEVERANCE

DO **POSTGRADUATE STUDIES**

APPLY
FOR YOUR DREAM JOB

STUDY HARD AND PASS ALL YOUR SUBJECTS
FOR AT LEAST 3 YEARS

REGISTER FOR PROGRAMME FOR
WHICH YOU APPLIED

ADMISSION
TO UFS

WHY IS IT SO IMPORTANT TO MAKE THE RIGHT SUBJECT CHOICES?

Do you know the **difference between a goal and a dream**? If you can write down goals to reach your dream, then you are on the right track. Your dreams and goals must be **feasible within your range of talents, passions, and value set**.

Be honest with yourself!

It is now time to choose your subjects. Some of **these subjects are essential for your studies** after school to launch you into your dream job – this is your contribution in making a difference. You are faced with a choice that will impact the rest of your life. **Your decision will either free you or trap you**.

You have to **select the right combination** of subjects to enable you to study at certain tertiary institutions like the University of the Free State. **Consider your options carefully**.

Do extensive research on each possible career path that you can follow with your specific subject choice combination. Depending on the subject package your school offers, **try out different combinations** until you feel comfortable and even excited about your subject choices.

WHAT SUBJECTS DO YOU CHOOSE?

To qualify for a National Senior Certificate, you have to pass seven subjects.

Your combination must include:

- Two languages. It is advisable that one language be English, as it is the preferred language of teaching and learning at most tertiary institutions in South Africa and abroad.
- Mathematics or Mathematical Literacy. Make a wise choice. You will have more study options with Mathematics than with Mathematical Literacy. This is where your research comes in handy. Encourage yourself to put in extra time and effort in Mathematics to improve your results. You can do it! There are many qualifications where Mathematical Literacy is adequate, but again, make sure, since it is easier to step down to Mathematical Literacy than it is to step up to Mathematics.
- Life Orientation
- Three other elective subjects, depending on what the school offers.

Keep in mind that four of the seven subjects included in your National Senior Certificate (NSC) subject package must form part of the 'designated' subjects listed below. You are required to obtain a minimum of 4 (50%) in each of the four subjects. In other words, if you have obtained your NSC with at least four of your seven school subjects selected from the designated list in Grade 12, and you have passed the four subjects with a minimum achievement level of 4 (50%), you may apply to study at any South African university.

DESIGNATED LIST OF SCHOOL SUBJECTS

Accounting, Agricultural science, Business studies, Consumer Studies, Dramatic Science, Economics, Engineering Graphics & Design, Geography, History, Information Technology, Life Sciences (Biology / Physiology), Mathematics OR Mathematical Literacy, Music, Physical Sciences / Natural Sciences, Religious Studies, Visual Arts, 3 Languages (one of these must be the language of teaching and learning at a higher education institution and two other recognised language subjects)



#TIP 1

Do not take subjects just because you like the teacher or your friend is taking that subject.

#PEERPRESSURE



#TIP 2

Don't stress, keep calm, and stay focused on your goal.

#STAYFOCUSSED

$$E = MC^2$$



#TIP 3

Keep your options open, as you might change your mind later.

#SOMANYOPTIONS



#TIP 4

The better your subject choices, the more study and career options you have after Grade 12.

#CAREERSCHOICES



#TIP 5

Keep your school's subject choice package in mind and take your time to select the right combination. Not all schools offer all subjects.

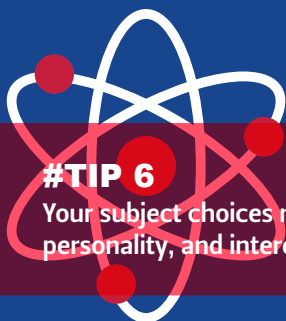
#ROCKINGCOMBOS



#TIP 6

Your subject choices must be in line with your abilities, talents, personality, and interests.

#BECOMINGREALITY



#TIP 7

The better your performance in all your subjects, the more options and opportunities you have for bursaries.

#IGOTABURSARY



WHAT CAN YOU DO TO MAKE YOUR CHOICES EASIER?

As your choices in Grade 9 will have a long-term effect, it is very important that you put in extra effort to make sure you are on the right track and don't regret anything. There are a few things you can do:

OPEN DAYS (SEE **Kovsies'** OPENDAY – 12 MAY 2018)

Attend open days by tertiary institutions offering programmes in your fields of interest. It is free and useful information are shared by academics as well as practitioners. Now you can determine the requirements and if your choices are in line with the programme or study field. This is also a great opportunity to check out the student vibe, campus facilities, and student activities you might be interested in. It is very important to be prepared and compile a list of questions before you go. Collect as many faculty pamphlets and programme booklets as possible to browse through later. Do research on which tertiary institution offers the best programmes in your various career options.

SHADOW WEEK

Most schools offer a shadow week in Grades 10 and 11 to give you a snapshot of what a career is like. For a week, you get to shadow in a company and it is very useful in making up your mind about a career. Talk to people in that specific field of expertise.

RESEARCH ON CAREERS

Use the web and read as much as you can about the careers and studies you are interested in. There is useful information about requirements, remuneration, progress, and opportunities. Take the time to research as wide as possible. Remember: Knowledge gives power. The more you know, the more informed decisions you will make.

ATTEND CAREER EXHIBITIONS

To help you prepare, most schools arrange career exhibitions. Tertiary institutions, businesses and industries exhibit their programmes, products, services, and careers and are very eager to share their knowledge with you. Use the opportunity to explore different options.

PSYCHOMETRIC ASSESSMENTS

During a process like this, you obtain an objective idea of your aptitude (strengths and weaknesses, study skills and habits), attitudes (academic, technical, and clerical skills), personality, and overall psychometric evaluation. The psychometric assessment is embedded in a comprehensive decision-making process which includes the following aspects:

- Gathering of background information and previous learning with respect to subject choices
- Self-knowledge
- Knowledge relating to specific subject material
- Decision-making

Contact or visit the UFS for expert and professional guidance and subject choice assessments:

Unit for Professional Training and Service in the Behavioural Sciences (UNIBS): +27 51 401 2775 | www.ufs.ac.za/kovsie2b | Facebook us at www.facebook.com/UFSUV

TEACHER'S ADVICE

According to YOU's Teachers for Change Facebook page, teachers have the following advice for you:

- Choose subjects that can open doors for your future career.
- Hold on as long as you can with Mathematics, but don't run the risk of not passing matric because of one subject.
- Choose subjects that challenge you and choose at least one that you like or that you know you are good at.
- Ask more than one person for advice, but keep your goals in mind.
- Don't choose a subject (or not choose it) according to the teacher who is teaching it. Teachers come and go, but your choices will stay!
- Don't choose subjects according to your parents' or friends' choices – look at your own success and/or interest in subjects.
- Do proper research on the admission criteria of the courses you are interested in.
- Search for opportunities to work with someone that does something you're interested in.
- If you can take an extra subject, do it!

(Reference: Barnard, S. 2013.
<http://you.co.za/teachers-for-change/grade-9s-how-to-choose-your-subjects-for-next-year>)



#TIP 8

Have a general idea of your chosen career and the different options it offers. The more you know, the better informed you are and the more likely you will make the best possible decision.

8 QUICK STUDY TIPS

#STUDYTIPS

- 1 The early bird catches the worm – don't wait till the last minute.
- 2 Eat the elephant bit by bit – work on each subject every day.
- 3 Remain energised – eat healthy food, get enough sleep and exercise.
- 4 Quitters never win and winners never quit – believe you can do it!
- 5 Be prepared and have all the things you need close by and have a designated place to study.
- 6 Test yourself!
- 7 No distractions – that means no TV and no cellphone!
- 8 Network with your friends on exam papers & tests.

(Reference: Post Matric. 2014. Gauteng. p24)



JOIN US AT *Kovsies* **OPEN DAY** **12 MAY 2018**

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FREISTATA



UNIVERSITY OF THE FREE STATE – A PLACE WHERE DREAMS BECOME REALITY

The University of the Free State (UFS) is one of the oldest institutions of higher education in South Africa.

It opened its doors in 1904 on the Bloemfontein Campus with a mere six students in the Humanities. Since then, our institution has grown to more than 31 000 students, spread across seven faculties over three campuses.

In addition to the founding campus, the university has a South Campus in Bloemfontein. This smaller campus provides alternative access to higher education for promising students who have not obtained the required marks in their final school examinations.

Our vibrant Qwaqwa Campus in the Eastern Free State serves a rapidly-growing number of rural students from the immediate area and surrounding provinces.

ADMISSION TO DEGREE / DIPLOMA STUDY

The University of the Free State is here to help you align your choices with your dreams, because your future is important to us.

There are specific admission requirements applicable to all South African universities that are stipulated by the National Department of Higher Education.

In most cases, an admission point (AP) of 30 is sufficient, but there are exceptions where a higher point is required or where a lower point is acceptable.

WHAT DO YOU NEED TO STUDY AT THE UNIVERSITY OF THE FREE STATE (UFS)?

You must have at least an overall minimum Admission Point (AP) of 30 and a minimum level of 4 (50%) in the official UFS language of instruction; and UFS expects that:

You must pass certain school subjects with a minimum level of achievement in order to take a specific university module. For example, you must get a mark of 60% for Mathematics in Grade 12 if you are planning to take Mathematics as one of the modules in a BSc study path; and

For certain selected programmes, e.g. BSc (Actuarial Science), you must have an overall admission point higher than 30.



#TIP 9 Know the exact admission requirements and closing dates of the programmes you are interested in to study, as you will need this info in 2020, when you are in Grade 12.

CALCULATE YOUR AP FROM GRADE 10 ONWARDS...

TO CALCULATE, ADD 6 OF YOUR DESIGNATED SCHOOL SUBJECTS BELOW WITH END RESULTS(%):

SUBJECT	%	UFS AP
LIFE-ORIENTATION (IF HIGHER THAN 60%)		1
TOTAL AP (APPLICATION POINTS)		

	NSC LEVEL OF ACHIEVEMENT	UFS AP APPLICATION POINTS
	7 90% – 100%	8
	7 80% – 89%	7
	6 70% – 79%	6
	5 60% – 69%	5
	4 50% – 59%	4
	3 40% – 49%	3
	2 30% – 39%	2
	1 0% – 29%	-

To help you calculate your AP here is an example:
For five academic subjects you must obtain a level of 5 (60%)
For one further academic subject you must obtain a level of 4 (50%)
For the subject Life Orientation a level of 5 (60%) or higher to score 1 point
UFS overall AP score

$$\begin{aligned} 5 \times 5 &= 25 \\ 1 \times 4 &= 4 \\ 1 \times 1 &= 1 \\ &= 30 \end{aligned}$$

CAREERS LINKED TO UFS PROGRAMMES

A full range of undergraduate degrees and diplomas are offered in our seven faculties of excellence, which are:



FACULTY OF ECONOMIC & MANAGEMENT SCIENCES

AREA OF EXPERTISE: PRIVATE SECTOR MANAGEMENT

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BCom BCom with specialisation in Economics BCom with specialisation in Entrepreneurship BCom with specialisation in Human Resource Management BCom with specialisation in Marketing BCom with specialisation in Investment Management and Banking BCom (Law)	Language of instruction level 4 (50%) Mathematics level 4 (50%)	Banking Sector, Financial Institutions, Economist, Economic forecaster, General management, Legal Advisor or Attorney at a Financial Institution, Marketing, Labour Relations, Entrepreneurship

AREA OF EXPERTISE: PUBLIC SECTOR MANAGEMENT

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BAdmin	Language of instruction level 4 (50%) None	Municipal Manager Public servant

AREA OF EXPERTISE: ACCOUNTING

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BAcc BCom (Accounting)	Language of instruction level 4 (50%) Mathematics level 5 (60%) Language of instruction level 4 (50%) Mathematics level 4 (50%)	Commercial & Financial Accountant, Chartered Accountant, Tax Practitioner, Financial Manager

FACULTY OF EDUCATION

NOTE: ALL PROGRAMMES ARE SUBJECT TO SELECTION

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Bachelor of Education in Foundation Phase Teaching Bachelor of Education in Intermediate Phase Teaching Bachelor of Education in Senior and FET Teaching	Language of instruction level 4 (50%) None	Pre-school Teacher, Foundation-phase Teacher, Intermediate-phase Teacher, Senior-phase Teacher, Tertiary Lecturer, Community worker, Instructor, Trainer, Education Analyst, Technology-directed Teaching, Education Manager

FACULTY OF HEALTH SCIENCES

NOTE: ALL PROGRAMMES ARE SUBJECT TO SELECTION

AREA OF EXPERTISE: SCHOOL OF MEDICINE

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BMedSc (Radiation Science) MB ChB	Language of instruction level 5 (60%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) Life Sciences level 5 (60%) (Recommended)	Medical doctor, Internist, Medical physicist e.g. oncology, Medical doctor for sports teams, Environments: Hospitals; Clinics; Private Practice; Training and/or Research Institutions; Medical Research Council, Government

AREA OF EXPERTISE: ALLIED HEALTH PROFESSIONS

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
B Optometry	Language of instruction level 5 (60%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) Life Sciences level 5 (60%)	Optometrist Environments: Hospitals, Clinics, Private Practice, Training and/or Research Institutions, Old-age Homes and Schools for people with special needs.
BSc (Physiotherapy)	Language of instruction level 5 (60%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) Life Sciences level 5 (60%)	Physiotherapist Environments: Hospitals, Clinics, Private Practice, Training and/or Research Institutions, Old-age Homes and Schools for people with special needs.
B Occupational Therapy	Language of instruction level 5 (60%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) and/or Life Sciences level 5 (60%)	Occupational Therapist, Community Worker Environments: Hospitals, Clinics, Private Practice, Training and/or Research Institutions, Old-age Homes and Schools for people with special needs, Mental Health Institutions
BSc (Dietetics)	Language of instruction level 5 (60%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) and/or Life Sciences level 5 (60%)	Dietician, Food Analyst, Food and beverage researcher, Nutritionist, Sales Representatives for Food and Beverage Companies, Community Dietician, Consultant Dietician
B Biokinetics	Language of instruction level 4 (50%) Mathematics level 5 (60%) Physical Sciences level 5 (60%) and/or Life Sciences level 5 (60%)	Biokineticist, Human Movement Specialist Environments: Sport, Rehabilitation, Hospitals, Schools

AREA OF EXPERTISE: SCHOOL OF NURSING

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BSocSc (Nursing)	Language of instruction Level 4 (50%) Mathematics Level 3 (40%) or Mathematical Literacy level 6 (70%) Life Sciences Level 5 (60%) or Physical Sciences Level 4 (50%)	All aspects of Health Care, Nurse Environments: Hospitals, Clinics, Private Practice, Training and/or Research Institutions, Old-age Homes and Schools for people with special needs, Mental-health Institutions, Education, Government

FACULTY OF HUMANITIES

AREA OF EXPERTISE: DRAMA, ART, MUSIC

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Higher Certificate in Music Performance	Language of instruction level 4 (50%) Musical aptitude on the chosen instrument or in singing during audition	Community Music Projects Can progress to study Diploma in Music
Diploma in Music	Language of instruction level 4 (50%) Unisa Grade 4 in principal instrument or voice or equivalent skills Unisa Grade 3 in music theory is advised	Soloist, Performing artist, Composer / Songwriter, Music Copyist, Music Advisor or Arranger, Recording and Sound Technician, Researcher, Music Critic, Choirmaster, Music Educator
BMus BA (Music)	Language of instruction level 4 (50%) Music Literacy Unisa Grade 5 or equivalent Music Performance Unisa Grade 7 or equivalent	Soloist, Performing artist, Composer / Songwriter, Music Copyist, Music Advisor or Arranger, Recording and Sound Technician, Researcher, Music Critic, Choirmaster, Music Educator
BA (Fine Arts)	Language of instruction level 4 (50%) Portfolio of creative work or evaluation test	Professional Artist, Arts Manager, Advertising, Publicity or Illustration, Journalist, Museum Curator, Gallery Manager, Art Dealer, Art Conservator / Assessor, Arts Educator
BA (Drama and Theatre Arts)	Language of instruction level 4 (50%) Drama experience at school level recommended	Actor, Performer, Producer, Designer, Writer, Drama Tutor

AREA OF EXPERTISE: PUBLIC SERVICE, MARKETING, LANGUAGES, MEDIA

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BA BA (Governance and Political Transformation) BA (Language Practice) BA (Communication Studies) BA (Integrated Organisational Communication) BA (Journalism)	Language of instruction level 4 (50%)	Marketer, Sales Representative, Advertising Consultant, Journalist, Media Analyst, Translator, Interpreter, Dictionary Maker, Language Engineer, Copywriter and Editor, Political Analyst, Recreation Officer
Bachelor in Community Development (Qwaqwa Campus only)	Language of instruction level 5 (60%) Diploma in Vocational Skills with at least 65% pass rate in all subjects Subject to selection	Community Development Specialist Housing, Infrastructure, Social, Education, Youth, Economic Development

AREA OF EXPERTISE: SOCIAL SCIENCES

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BSocSci	Language of instruction level 4 (50%)	Psychologist (Postgraduate Studies Required), Community Developer Environments: Hospitals, Police Service, Correctional Services, Public Sector, Non-governmental Organisations, Social and Market Research, Urban and Rural Planning, Human Resource Management

Bachelor in Social Work

Language of instruction level 5 (60%)

Social Worker, Community Developer
Environments: Hospitals, Police Service, Correctional Services,
Public Sector, Non-governmental Organisations, Social and
Market Research, Urban and Rural Planning, Human Resource
Management

FACULTY OF LAW

AREA OF EXPERTISE: LAW

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
LLB four years	Language of instruction level 6 (70%) Mathematics level 4 (50%) or Mathematical Literacy level 6 (70%)	Advocates, Clerks of the High Court, Legal Academics, Registrar of the High Court, Sheriff of the Court, State Attorneys, Advocates, Prosecutors, Lawyers, Legal Advisors

FACULTY OF NATURAL & AGRICULTURAL

BSc DEGREES IN THE FOLLOWING PROGRAMMES:

AREA OF EXPERTISE: MATHEMATICAL SCIENCES

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
<u>Mathematical Statistics and</u> Climate Sciences Econometrics Investment Sciences Psychometrics	Language of instruction level 4 (50%) Mathematics from level 5 (60%) to level 7 (80%) depending on the programme of studies Physical Science level 4 (50%)	Statistical Analyst, Investment Analyst, Investment Manager, Risk Manager, Financial Reporter / Planner
<u>Applied Statistics and</u> Accounting Economics Psychology	Language of instruction level 4 (50%) Mathematics from level 5 (60%) to level 7 (80%) depending on the programme of studies Physical Science level 4 (50%)	Economist, Econometrician, Statistician, Research Psychologist, Financial Economist / Advisor
<u>Mathematics and</u> Applied Mathematics Chemistry Mathematical Statistics Physics Finances	Language of instruction level 4 (50%) Mathematics from level 5 (60%) to level 7 (80%) depending on the programme of studies Physical Science level 4 (50%)	Mathematical Analyst in Banks, Insurance and Investment Institutions, Scientist, Researcher
Actuarial Sciences	Language of instruction level 4 (50%) Mathematics level 7 (80%)	Actuary, Actuarial Assistant, Risk Analyst, Financial Reporter, Financial Manager, Investment Manager, Statistician, Education

AREA OF EXPERTISE: PHYSICS & CHEMISTRY

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Physics and Chemistry Physics and Astrophysics	Language of instruction level 4 (50%) Mathematics from level 5 (60%) to level 7 (80%)	Manufacturing industries, Research laboratories, CSIR/Sasol, Nuclear, Telecommunications, Energy Production,

Physics and Agrometeorology	depending on the programme of studies Physical Science level 4 (50%) If Biological subjects are the second major, Life Sciences level 5 (60%) is required	Planetarium, Space Science, Meteorological Instrumentation, Atmosphere and Weather Forecasting
Chemistry in combination with Biological subjects: Biochemistry Botany Food Sciences Microbiology Entomology Zoology	Language of instruction level 4 (50%) Mathematics from level 5 (60%) to level 7 (80%) depending on the programme of studies Physical Science level 4 (50%) If Biological subjects are the second major, Life Sciences level 5 (60%) is required	Manufacturing industry, Medicine, Pharmaceutical industry, Agriculture, Forestry, Environmental, Waste and Pollution Management, Marine Environment
Physics with Engineering subjects	Language of instruction level 4 (50%) Mathematics level 6 (70%) Physical Sciences level 7 (80%)	Engineering Assistant, Construction-site Manager

AREA OF EXPERTISE: GEOGRAPHY

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Geo-informatics	Language of instruction level 4 (50%) Mathematics level 5 (60%) Physical Sciences level 4 (50%)	GIS Specialists, Spatial Planners, Geo-informatics Practitioner
Geography and Statistics	Language of instruction level 4 (50%) Mathematics level 5 (60%) Life Sciences level 5 (60%) or Physical Sciences level 4 (50%)	Geographic Information Systems (GIS) specialist, GIS planner
Geography and Agrometeorology Geography and Environmental Sciences	Language of instruction level 4 (50%) Mathematics level 5 (60%) Life Sciences level 5 (60%)	Geomorphologist, Climate Specialist, Agricultural and Spatial Advisor, Environmental Assessment Practitioner
Environmental Geography	Language of instruction level 4 (50%) Mathematics level 5 (60%)	Urban & Regional Planner, Environmental Consultant, Conservation Scientist, Climatologist, GIS analyst, Forestry, National Parks, Mining

AREA OF EXPERTISE: GEOLOGY

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Geology specialisation Geochemistry Environmental Geology Geology and Chemistry Geology and Geography Geology and Physics	Language of instruction level 4 (50%) Mathematics level 5 (60%) Physical Science level 5 (60%)	Mining Geology, Exploration Geology, Engineering Geology, Economic Geology, Environmental Management, Research and Academia

NOTE: ALL PROGRAMME ARE SUBJECT TO SELECTION

AREA OF EXPERTISE: BIOLOGICAL SCIENCES

PROGRAMME (NOTE THE DIFFERENT COMBINATIONS OF MAIN & SECOND SUBJECTS)	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Behavioural Genetics Biochemistry and Botany Biochemistry and Entomology Biochemistry and Food Science Biochemistry and Genetics Biochemistry and Microbiology Biochemistry and Physiology Biochemistry and Statistics Biochemistry and Zoology Botany and Entomology Botany and Genetics Botany and Microbiology Botany and Zoology Botany and Plant Breeding Botany and Plant Pathology Entomology and Genetics Entomology and Microbiology Entomology and Zoology Environmental Rehabilitation Genetics and Microbiology Genetics and Physiology Genetics and Zoology Microbiology and Zoology Microbiology and Food Science Human Molecular Biology Plant Health Ecology	Language of instruction level 4 (50%) Mathematics level 5 (60%) Life Sciences level 5 (60%) Physical Sciences level 4 (50%)	Genetics: Technicians in agricultural, forestry, seed, pest-control and medical research institutes as well as forensic institutions (e.g. police services) Plant Sciences: Careers in the educational, agricultural, environmental and biotechnological sectors as botanist, plant breeder, plant pathologist, researcher, teacher, environmental consultant, conservationist, laboratory or research assistant and entrepreneur Microbial, Biochemical and Food Biotechnology: Careers in agricultural and environmental sectors, health services and food and other biotechnology-related industries or as an entrepreneur Zoology and Entomology: Laboratory or research assistant, teacher, environmental consultant, conservationist in environmental or agricultural sectors; education and medical institutes
Forensic Sciences	Language of instruction level 4 (50%) Cumulative AP score of 17 and higher for Mathematics, Life Science and Physical Science Note: No person with a criminal record will be allowed into this programme.	Arson analyst (fire investigation), Geologist (specialising in the analysis of minerals, soil samples, etc.), Documents Analyst (Document Forgery, for example in the Insurance Industry, Analysing Handwriting and Forgery of Autographs, etc.), Forensic Computer Analyst or Digital Forensic Analyst

AREA OF EXPERTISE: COMPUTER SCIENCES & INFORMATICS

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
Computer Science with Chemistry Computer Science with Mathematical Statistics Computer Science with Mathematics Computer Science with Physics Computer Science in Business and Management	Language of instruction level 4 (50%) Mathematics from level 4 (50%) to level 7 (80%) depending on the programme of studies Physical Science level 4 (50%), if Chemistry or Physics is the second major	IT Technician, IT data manager, Programme Developer, IT infrastructure specialist, App designer and developer, IT security specialist, Digital platforms Analyst / Manager, IT project manager, IT Business Analyst
Computer Information Systems	Language of instruction level 4 (50%) Mathematics level 4 (50%)	IT Technician, IT Data Manager, Programme Developer, IT Infrastructure Specialist, App Designer & Developer

AREA OF EXPERTISE: CONSUMER SCIENCES

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BConsSc General BConsSc Food	Language of instruction level 4 (50%)	Consumer Scientist, Consultant, Designer, Buyer, Quality-control Inspector, Consumer Marketer, Product Developer, Researcher in the food industry
BSc (Consumer Science) Food	Language of instruction level 4 (50%) Mathematics level 5 (60%) Life Sciences level 5 (60%) Physical Science level 4 (50%)	Consumer Scientist, Consultant, Designer, Buyer, Quality-control Inspector, Consumer Marketer, Product Developer, Researcher in the food industry

NOTE: ALL PROGRAMMES ARE SUBJECT TO SELECTION

AREA OF EXPERTISE: BUILDING SCIENCES

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
BArch (Architecture)	Language of instruction level 4 (50%) Mathematics level 4 (50%)	Architect, Draughtsman, Architectural Technologist, Architectural Assistant, Urban & Regional Planner, Landscape Architect, Interior Designer
BSc Construction Management BSc Quantity Surveying	Language of instruction level 4 (50%) Mathematics level 5 (60%) One of the following on level 4 (50%): Physical Sciences, Economics, Business Studies or Accounting	Construction Business Manager, Real Estate Developer, Building Manager, Operation Manager, Quantity Surveyor, Construction Surveyor, Cost Project Manager

AREA OF EXPERTISE: AGRICULTURAL SCIENCES

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
<u>BAgric degrees in the following programmes:</u> Irrigation Management Animal Production Management Mixed-Farming Management Crop Production Management Wildlife Management Agricultural Management	Language of instruction level 4 (50%) Mathematics level 3 (40%) or Mathematical Literacy level 7 (80%) if the AP is 32 or above	Agricultural advisor, extension, and training officer Managerial positions in a wide range of agri-businesses and farmer enterprises Representatives in agrochemical (pharmaceuticals, fertilisers, pesticides, etc.) and animal feed companies
BSc Agricultural Economics	Language of instruction level 4 (50%) Mathematics level 5 (60%) Life Sciences or Agricultural Sciences level 5 (60%) or Physical Science level 4 (50%)	Economic analyst, Financial/credit advisor, Government of private industry economist, Policy analyst or advisor, Resource manager, Economic consultant, Production economist, Statistician, Commodities trader, Economic researcher, Agricultural marketing

PROGRAMME (NOTE THE DIFFERENT COMBINATIONS OF MAIN & SECOND SUBJECTS)	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
<p>BScAgric degrees in the following programmes:</p> <p>Agrometeorology and Agricultural Economics</p> <p>Agrometeorology and Agricultural Engineering</p> <p>Agrometeorology and Agronomy</p> <p>Agrometeorology and Grassland Sciences</p> <p>Agrometeorology and Plant Pathology</p> <p>Agrometeorology and Soil Science</p> <p>Agronomy and Agricultural Economics</p> <p>Agronomy and Agrometeorology</p> <p>Agronomy and Animal Sciences</p> <p>Agronomy and Entomology</p> <p>Agronomy and Food Science</p> <p>Agronomy and Plant Breeding</p> <p>Agronomy and Plant Pathology</p> <p>Agronomy and Soil Sciences</p> <p>Animal Sciences and Agricultural Economics</p> <p>Animal Sciences and Grassland Sciences</p> <p>Food Science and Agronomy</p> <p>Food Science and Animal Sciences</p> <p>Food Science and Biochemistry</p> <p>Food Science and Chemistry</p> <p>Food Science and Microbiology</p> <p>Grassland and Animal Sciences</p> <p>Grassland and Soil Sciences</p> <p>Plant Breeding and Agronomy</p> <p>Plant Breeding and Grassland Sciences</p> <p>Plant Breeding and Plant Pathology</p> <p>Plant Pathology and Agronomy</p> <p>Plant Pathology and Plant Breeding</p> <p>Soil Science and Agricultural Economics</p> <p>Soil Science and Agricultural Engineering</p> <p>Soil Science and Agrometeorology</p> <p>Soil Science and Agronomy</p> <p>Soil Science and Grassland Sciences</p> <p>Soil Science and Plant Pathology</p>	<p>Language of instruction level 4 (50%)</p> <p>Mathematics level 5 (60%)</p> <p>Life Sciences or Agricultural Sciences level 5 (60%) or Physical Science level 4 (50%)</p>	<p>Animal, Wildlife and Grassland Sciences: Animal Breeder, Animal Physiologist, Animal Nutritionist, Grassland Scientist, Agricultural Advisor, Private Consultant, Farmer, Academic, Teacher, Extension Officer and Researcher.</p> <p>Soil, Crop and Climate Sciences: Agronomist, Soil Scientist, Horticulturist, Agro-meteorologist, Researcher, Agricultural Advisor and Consultant.</p> <p>Plant Sciences: Plant Pathologist or Plant Breeder at Private or Public Institutions involved in Crop Research and Development in the Agricultural, Horticultural and Forestry Industries.</p>

FACULTY OF THEOLOGY

AREA OF EXPERTISE: THEOLOGY

PROGRAMME	COMPULSORY SCHOOL SUBJECTS	CAREER OPPORTUNITIES / ENVIRONMENTS
<p>Higher Certificate in Theology</p> <p>Bachelor in Theology</p>	<p>Language of instruction level 4 (50%)</p>	<p>Minister / Preacher or Pastor in a congregation, Missionary or Evangelist (locally or internationally), Chaplain in the SAPS, SANDF or Correctional Services, Youth Worker, Journalist or Broadcaster on religious topics, Project Leader in Community Development, Bible Translator, Pastoral Counsellor, Lifestyle Coach, Researcher</p>

IMPORTANT CONTACT DETAILS

Economic and Management Sciences – Lizette Pretorius:
Education – Charmell Cardoso:
Health Sciences – Sandra Gouws:
Humanities – Marica Coetsee:
Natural and Agricultural Sciences – Lee-Ann Frazenburg:
Law – Adri Kotze:
Theology – Marlene Oosthuizen:

APPLICATIONS

Undergraduate applications

CENTRE FOR TEACHING AND LEARNING

Gugu Wendy Khanye

DEPARTMENT – MARKETING AND RECRUITMENT

Director: Nomonde Mbadi

MARKETERS

Chantel Bester:
Cindy Hack (KZN):
Louis Lucas:
Lauren Marais:
Qaqamba Mhlauli (Gauteng):
Tshidiso Masakala:
Vusi Mkhwanazi:
Thato Phakoe:
Rynhardt Smidt:
Pieter van Jaarsveld:
Nic van Wyk:

UNIT FOR PROSPECTIVE STUDENTS

Marieta Landman:

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General enquiries – Amo Nkoko:
Immigration, Accreditation, Medical Aid & Finances – Jeanne Niemann:

051 401 2173
051 401 9264
051 405 3643
051 401 2369
051 401 3199
051 401 2735
051 401 2617

051 401 9864

051 401 3798

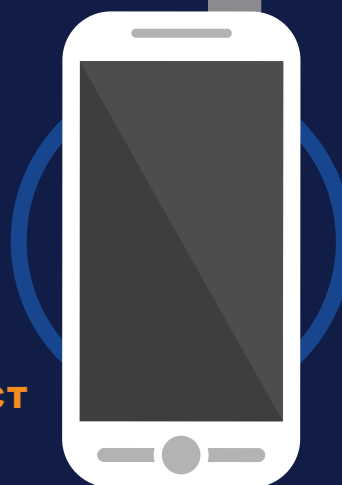
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060 583 4592
083 625 4687
083 635 2458
060 993 5820
083 632 2121
082 808 1034

051 401 3000

051 401 7339
051 401 3219

#ADDCONTACT



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This publication was compiled by the Department Marketing and Recruitment of the University of the Free State.