



SAAM VORENTOE | MASIYE PHAMBILI | FORWARD TOGETHER

# SUBJECT CHOICE GUIDANCE AND CAREER ADVICE



# CHOOSE YOUR FUTURE FACULTY

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EDUCATION

# WELCOME TO UNIVERSITY

# SUBJECT CHOICE GUIDANCE AND CAREER ADVICE

Learners are faced with a wide variety of subject and career options. While it is certainly a privilege, it is also sometimes a challenge that can lead to a lot of head scratching. Stellenbosch University wants to ensure that learners are supported as far as possible to make realistic subject and career choices.

The first step in the career guidance process is subject choices in Grade 9. At this young age, learners do not always realise what big influence their subject choices can have on their future career choice. The second step in the career guidance process takes place in Grade 11 when the learners' subject choices are matched to study and career options at higher education institutions.

## Where do I start?

The National Senior Certificate requires seven subjects.

**Four compulsory subjects:** Two South African languages, Mathematics or Mathematical Literacy and Life Orientation.

**Three electives:** These three subjects must be selected from your school's approved subject list and should be useful after school.

This booklet will help you to choose school subjects that suit your interests. Keep the minimum requirements of future career paths in mind when making your final choice of subjects. Subjects such as Mathematics, Physical Sciences and Life Sciences are required for certain fields of study.

## I have already chosen my subjects

The next step is to identify your chosen field of study and career and to reconcile it with your interests. This booklet will help you to identify

fields of study and careers that suit you. Make sure that your school subjects meet the requirements of these fields of study. Also remember that certain professions require postgraduate study.

If you are unsure about which program to apply for, you can always book a free advisory session at the Centre for Student Recruitment and Career Advice. Stellenbosch University also offers a service for the psychometric assessment of your personality, aptitude and interests so that learners are supported as far as possible to make an informed decision about their subjects and future career.

Bookings can be made at [csr@sun.ac.za](mailto:csr@sun.ac.za) / 021 808 4709.

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INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>HUMANITIES AND SOCIAL SCIENCES</b>			
Working with people (individuals or groups), people's emotional and/or mental needs, human rights, teaching and learning of children and/or adults, languages, reading and/or writing	<p>No specific school subjects are required</p> <p><b>Recommended subjects:</b> History, Geography, Religion Studies, Additional Languages (depending on your field of interest)</p> <p><b>Mathematics or Mathematical Literacy?</b> Mathematical Literacy provides access to all fields of study, with the exception of Political Science (PPE degree). Mathematics is required if you want to take Mathematics, Statistics or Economics as a subject at university.</p>	Psychology, Language and Culture, Sport Science, Law, Political Science, Social Work, Sociology, Anthropology, Geography and Environmental Studies, International Studies, Human Resource Management, Theology, Socio-Informatics	Psychologist, language practitioner, journalist, sport scientist, social worker, politician, civil servant, diplomat, researcher, teacher, human resource manager, pastoral counsellor, pastor, youth worker, entrepreneur, internet developer, electronic business specialist
INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>ARTS AND CULTURE</b>			
Art and art appreciation, drawing, sketching, designing, sculpting, graphic design, drama, art competitions, cultural activities, classical music	<p><b>Recommended subjects:</b> Visual Art, Design, Dramatic Arts, Dance Studies, Music (depending on your field of interest)</p> <p><b>Mathematics or Mathematical Literacy?</b> Mathematical Literacy provides access to all fields of study. However, note that if you want to take Mathematics as a subject at university, as is possible in the music field of study, you must have Mathematics at matric level.</p>	Drama and Theatre Studies, Music, Music Technology, Visual Arts (Fine Arts, Graphic Design, Jewellery and Metal Design)	Actor, stage manager, artist, graphic designer, theatre scientist, teacher, musician, musicologist



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<b>ECONOMICS AND BUSINESS MANAGEMENT</b>			
Numbers, mathematics, accounting, business management, entrepreneurship, managing people's emotional needs in a business, human rights, economics, financial planning, data, marketing	<p><b>Compulsory subject:</b> Mathematics</p> <p><b>Recommended subjects:</b> Business Studies, Accounting, Economics, Information Technology (depending on your field of interest)</p>	Entrepreneurship, Accounting, Economic Sciences (Economics, Econometrics, Financial Sector, Economic and Management Consulting, Transport Economics), International Business, Actuarial Sciences, Industrial Psychology, Law (Business), Investment Management, Mathematical Sciences (Data Sciences, Financial Risk Management, Operational Research), Management Sciences (Marketing Management, Business Analytics, Entrepreneurship and Innovation, Financial Management, Information Systems Management, Agricultural Management, Logistics Management Human Resource Management), Computer Sciences, Financial Planning, Agricultural Economics, Public and Development Management, Sustainable Development	Chartered accountant, chartered management accountant, chartered certified accountant, actuary, economist, entrepreneur, financial manager, marketing manager, logistics manager, human rights manager, computer or data scientist, chartered financial analyst, certified financial planner, financial risk manager, industrial psychologist, teacher, agricultural economist, development manager, management consultant



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<b>AGRISCIENCES</b>			
Plants, animals, the environment, life sciences, physical sciences, working in nature, farming, nature conservation, agriculture, agribusiness	<p><b>Compulsory subject:</b> Mathematics, Physical Sciences</p> <p><b>Recommended subjects:</b> Agricultural Management Practices, Agricultural Sciences, Agricultural Technology, Life Sciences</p>	Agricultural Economics, Animal Production Systems, Conservation Ecology, Food Sciences, Forest and Wood Sciences, Viticulture and Oenology, Plant and Soil Sciences, Agricultural Production	Forest manager, food scientist, conservation ecologist, wood scientist, water management specialist, animal scientist, agricultural economist, wine maker, cellar manager, agronomist, consultant, teacher, careers in animal and crop production, farming and agritourism



INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>MEDICINE AND HEALTH SCIENCES</b>			
Working with the physical needs of children and/or adults, medical, the human body, nursing, research, nutrition, sport	<p><b>Compulsory subject:</b> Mathematics, Physical Sciences and/or Life Sciences (depending on the requirements of the programme that you choose)</p>	Medicine, Dietetics, Nursing and Obstetrics, Occupational Therapy, Physiotherapy, Speech-Language and Hearing Therapy	Medical doctor, surgeon, nurse, matron, occupational therapist, physiotherapist, speech-language and hearing therapist, medical researcher, specialist (with postgraduate study)





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<b>ENGINEERING AND TECHNOLOGY</b>			
Practical work, design, data, 4th industrial revolution, construction, computers, technology, science, chemistry and physics, numbers	<p><b>Compulsory subject:</b> Mathematics, Physical Sciences</p> <p><b>Recommended subjects:</b> Civil Technology, Electrical Technology, Mechanical Technology, Engineering Graphics and Design, Information Technology, Computer Application Technology (depending on your field of interest)</p>	Civil Engineering, Electrical and Electronic Engineering, Industrial Engineering, Mechanical and Mechatronic Engineering, Chemical Engineering, Data Sciences and Computer Thinking	Civil engineer, electrical engineer, electronic engineer, industrial engineer, mechanical engineer, mechatronic engineer, chemical engineer, data scientist, biomedical engineer, aeronautical engineer



INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>SCIENCE AND TECHNOLOGY</b>			
Chemistry, physics, geology, sport, research, the environment, biology, life sciences, mathematics, numbers, data, computers	<p><b>Compulsory subject:</b> Mathematics, Physical Sciences</p> <p><b>Recommended subjects:</b> Life Sciences, Information Technology, Computer Application Technology (depending on your field of interest)</p>	Biodiversity and Ecology, Human Life Sciences, Molecular Biology and Biotechnology, Computer Sciences, Sport Sciences, Mathematical Sciences (Abstract Mathematics, Biomathematics, Financial Mathematics, Operational Research, Geographical Information Technology, Applied Mathematics, Mathematics, Mathematical Statistics), Chemistry, Physics, Earth Sciences, Geoinformatics, Data Sciences, Biomedical Mathematical Sciences, Applied Medicinal Chemistry, Bioinformatics and Computational Biology	Ecologist, physiologist, chemist, biochemist, geneticist, microbiologist, sport scientist, psychologist, physicist, geologist, computer scientist, biomathematician, epidemiologist, mathematical statistician, teacher, geographic information specialist, data scientist, programmer



INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>LAW</b>			
Protecting human rights, arguing in court, reading and writing important documents, legal advice to individuals or businesses, transfer of property, drawing up contracts	<p><b>No specific school subjects are required for BA (Law) or LLB</b> (except if you want to take statistics as a subject, then Mathematics is a requirement).</p> <p>Mathematics is required if you want to study <b>BCom (Law) or BAccLLB.</b></p>	Law	Lawyer, advocate, legal adviser, magistrate, judge, conveyancer, notary



INTERESTS	SCHOOL SUBJECTS	FIELDS OF STUDY AT THE UNIVERSITY	CAREER OPPORTUNITIES
<b>EDUCATION</b>			
Working with children, teaching and learning, Grade R-7 learners	<p><b>Mathematics or Mathematical Literacy?</b> Both Mathematics and Mathematical Literacy provides access to all fields of study. However, note that certain teaching modules may require certain subjects.</p> <p><b>Recommended subjects for teaching modules (intermediary phase education):</b> Natural Sciences (Ed): - Life Sciences or Physical Sciences Social Sciences (Ed): - History or Geography</p>	Foundation Phase Education, Intermediate Phase Education	Teacher