



2020

Grade 10
subject choices

Make today matter

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Make smart Grade 10
subject choices

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Note: English is the language of tuition, communication and correspondence at the University of Pretoria.

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Responsible Grade 10 subject choices are important



It is a great disappointment when Grade 12 learners and their parents realise that the subjects the learners have chosen do not allow them to apply for their preferred study field at university. It can even happen that they have chosen the correct subjects, but they do not meet the minimum admission requirements.

Two reasons for high dropout rates are the following:

- (a) Learners often choose the wrong degree programme.
- (b) Learners often do not ensure that their Grade 10 subject choices are aligned with the requirements of the degree programmes they are interested in applying for.

This brochure enables Grade 9 learners to make sound subject choices in Grade 10 that will provide them access to an array of programmes. Learners have a crucial responsibility in this regard, because uninformed subject choice decisions may

negatively affect their future career planning. Learners need not panic, they can consider options with their parents and educators to determine which exciting career they would like to pursue and what subjects they need to take in Grade 10 to make that dream possible.

This brochure is a step-by-step guide that will enable Grade 9 learners to make sensible subject choices for Grade 10.

Steps to follow



Gather information on possible career opportunities

This is often the most difficult step and the one that causes parents and learners to become despondent, especially if a learner simply does not know what career they would like to follow one day. However, the aim with this step should not, in the first place, be to decide on a specific career, but rather to determine a broad field of career interest, eg health sciences, social sciences, natural sciences, engineering, etc.

Learners should obtain as much information as possible on the fields that hold their interest and are aligned with their personality. Parents play an important role in this process and can be of great help because they know more about the demands made by specific careers. It is important that learners should be supported and guided with advice to enable them eventually to make their OWN choices as far as possible. In this way, the self-image of learners will develop and they will take ownership of their decisions. Several sources are available where more information on fields of career interest may be obtained. One such source to be recommended is the website of PACE Careers.

Learners may follow the following steps:

- Go to www.pacecareers.com.
- Click on 'Services'.
- Scroll down and click on 'Take the questionnaire' and then on 'Start the questionnaire'.
- Register to complete the questionnaire. It consists of 105 simple statements to which the learner only has to answer 'Yes' or 'No'.
- When the last question is answered, a profile of the learner's fields of career interests is shown, with a clear indication of the fields of career interest that are the strongest.
- Next to every field of interest is a link on which a learner should click for a list of all possible careers within the field of interest concerned.
- By clicking on a specific career, the learner obtains information in connection with that career, including a summary of what the career entails, the subjects required and employment possibilities.
- It is further suggested that learners take time to do job shadowing. In this way learners can experience the real working environment, which is a crucial aspect when a decision about a specific career should be made.

Take note of the National Senior Certificate (NSC) and the Independent Examination Board (IEB) Certificate requirements.

The University of Pretoria accepts NSC/IEB results certified by Umalusi for bachelor studies.

Grade 9 learners are required to include at least SEVEN subjects in their subject package for Grade 10, which will include:

02

STEP TWO

Four compulsory subjects:

- Home Language
- First Additional Language
- Mathematics or Mathematical Literacy
- Life Orientation

Three optional NSC 20 credit subjects offered by the school

03

STEP THREE

Make sure you are aware of the admission requirements for studies at a tertiary institution

Examples of tertiary institutions include universities, universities of technology, colleges for further education and training (FET colleges) and private colleges. Prospective students will have to comply with two sets of admission requirements based on their Grade 11 and/or Grade 12 results in order to study at a tertiary institution:

Admission requirements of the Department of Education

The statutory minimum requirements for degree studies is a National Senior Certificate (NSC) or an Independent Examination Board (IEB) Certificate with a minimum achievement level of 4 (50%–59%) in four recognised NSC 20-credit subjects.

Admission requirements of the different tertiary institutions

These admission requirements include faculty-specific admission requirements. Please note that the different tertiary institutions will have different admission requirements. For the admission requirements prescribed by the University of Pretoria, visit www.up.ac.za/programmes.

In order to be considered for a programme, the applicant must meet the specific subject requirements as well as the Admission Point Score (APS) requirement, eg:

Programme	Minimum requirements for 2021		
	Achievement level		APS
	Mathematics	English Home Language or English First Additional Language	
	NSC/IEB	NSC/IEB	
BA (Audiology) [4 years] Closing dates: SA – 30 June Non-SA – 30 June	5	5	32



**‘Ability is what you are capable of doing.
Motivation determines what you do.
Attitude determines how well you do it.’**

Lou Holtz

The calculation of the APS is done on a seven-point rating scale

National Senior Certificate (NSC) seven-point rating scale (also applicable to IEB-learners)

Achievement level	Description	Percentage
7	Outstanding achievement	80–100%
6	Meritorious achievement	70–79%
5	Substantial achievement	60–69%
4	Adequate achievement	50–59%
3	Moderate achievement	40–49%
2	Elementary achievement	30–39%
1	Not achieved	0–29%

Example: Joanne Govender

Subject	Percentage (%)	Achievement level	APS
English Home Language	73	6	6
Afrikaans FAL	68	5	5
Mathematics	81	7	7
Physical Sciences	84	7	7
CAT	91	7	7
Geography	72	6	6
Life Orientation	84	7	-
			38 (APS TOTAL)





05
STEP FIVE

04
STEP FOUR

Make an important choice between Mathematics and Mathematical Literacy

Not all learners have a love for Mathematics and not all learners have the same aptitude to master this subject equally well. Learners who do not like Mathematics and do not do well in this subject are unlikely to choose a field of study or career where Mathematics is a prerequisite. However, it is a reality that Mathematics is a compulsory subject for a number of programmes at tertiary level and that learners who do not take Mathematics, will therefore not be considered for such programmes.

Some learners find it easier to master the content of Mathematical Literacy than the content of Mathematics since Mathematical Literacy is aimed more at the practical application of mathematical principles and concepts in everyday life, eg calculating areas, volumes and circumferences, calculating profit and loss, drawing up a budget, etc.

Remember that, for a learner, a pass mark in Mathematical Literacy is better than a failing mark in Mathematics. This should also be the point of departure when the learner, together with his or her parents, should decide between these two subjects. Learners and parents are strongly advised to consider the recommendation from the school and the Mathematics teacher in this regard when making this decision.

Please also note that it is most definitely not the end of the study or career path for a learner who does not take Mathematics. **There are many fields of study available for learners taking Mathematical Literacy as a subject, and these are clearly indicated in the faculty tables in this brochure.** In addition, it is a fact that these learners may become just as successful in their subsequent careers as their colleagues who took Mathematics as a subject.

→ Decide now on a safe Grade 10 subject choice

The structure of the NSC and the IEB Certificate referred to in Step 02 allows Grade 10 learners, apart from the critical and compulsory subjects, to also take elective subjects that the learners enjoy and in which they can perform well to enhance their average marks (APS).

Apart from good results in the subjects required for specific programmes, the average percentage achieved by learners for all their subjects taken together is very important with a view to eventually being admitted to a programme at a tertiary institution.

The faculty tables from page 8 reflect all the undergraduate programmes offered by the University of Pretoria and also show the required NSC/IEB subjects, which learners will have to choose in Grade 10 in order to be considered for the programmes.



Become a JuniorTukkie

The JuniorTukkie programme of the Department of Enrolment and Student Administration at the University of Pretoria has been established to assist learners in Grades 9, 10, 11 and 12 to make responsible study and career choices.

The JuniorTukkie initiative develops important skills to better equip learners for the challenges they may face as a student in their personal capacity, as well as professionally. The JuniorTukkie programme provides, among others, a wide variety of services to learners and students, such as first-hand information on study and career options, leadership, life skills and study skills development, as well as engagement in community projects and many more. For more information, go to www.up.ac.za/juniortukkie.

Just look at all the benefits JuniorTukkies may enjoy:

- Two online editions per year of the JuniorTukkie magazine crammed with campus information and information on the various faculties and programmes UP offers.
- Access to the JuniorTukkie website and JT App (download the JT App at juniortukkieapp.co.za), where, among other things, study guides for a number of school subjects may be downloaded, etc.
- Access to useful examination hints.
- Personal invitations to events and functions offered by the University of Pretoria.
- Direct access to the JuniorTukkie Office to assist you with enquiries.
- Assistance to ensure your application process runs smoothly when you apply in your Grade 12 year for admission to study at the University of Pretoria.
- Access to the JuniorTukkie Summer and Winter schools.
- Access to e-learning enrichment programmes in Mathematics and Physical Sciences.
- Access to a reading development programme.

Make smart Grade 10 subject choices based on the relevant programme requirements.

University of Pretoria admission requirements for the programmes in the Faculty of Economic and Management Sciences				Grade 10 subject package
Programme	Minimum requirements for 2021			Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school
	Achievement level		APS	
	English Home Language or English First Additional Language	Mathematics		
	NSC/IEB	NSC/IEB		
BCom (Accounting Sciences)	5	6	34	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation
BCom (Investment Management)	5	6	34	
BCom (Financial Sciences)	5	5	32	
BCom (Econometrics)	5	6	32	
BCom (Economics)	5	5	32	
BCom (Law)	5	5	32	
BCom (Statistics and Data Science)	5	5	32	
BCom (Informatics) Focus area: Information Systems	5	4	30	
BCom (Agribusiness Management)	5	5	30	
BCom	5	4	30	
BCom (Business Management)	5	4	30	
BCom (Supply Chain Management)	5	4	30	
BCom (Marketing Management)	5	4	30	
BCom (Human Resource Management)	5	4	30	
BAdmin (Public Management and International Relations)	5	Mathematics 3 or Mathematical Literacy 4	28	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics or Mathematical Literacy Life Orientation



University of Pretoria admission requirements for the programmes in the Faculty of Education			Grade 10 subject package
Programme	Minimum requirements for 2021		<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>
	Achievement level	APS	
	English Home Language or English First Additional Language		
	NSC/IEB		
BEd (Foundation Phase Teaching) [Pre-primary to Grade 3]	4	28 (26–27 admission based on the NBT)	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics or Mathematical Literacy Life Orientation
BEd (Intermediate Phase Teaching) [Grades 4 to 6]	4	28 (26–27 admission based on the NBT)	
BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12]	4	28 (26–27 admission based on the NBT)	
Higher Certificate in Sports Science Education	4	20	
BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12]	4	28 (26–27 admission based on the NBT)	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation
(Physical Sciences or Life Sciences option) Additional subject requirements: <ul style="list-style-type: none"> Physical Sciences 5 (60-69%) in Grade 12 Mathematics 5 (60-69%) in Grade 12 			
BEd (Senior Phase and Further Education and Training Teaching) [Grades 7 to 12]	4	28 (26–27 admission based on the NBT)	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation
(Economic and Management Sciences option) Additional subject requirement: <ul style="list-style-type: none"> Mathematics 4 (50-59%) in Grade 12 			



University of Pretoria admission requirements for the programmes in the Faculty of Engineering, Built Environment and Information Technology					Grade 10 subject package
Programme	Minimum requirements for 2021			APS	Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school
	English Home Language or English First Additional Language	Mathematics	Physical Sciences		
SCHOOL FOR THE BUILT ENVIRONMENT	NSC/IEB	NSC/IEB	NSC/IEB		
BSc (Architecture)	5	4	4	27	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation
BSc (Construction Management)	5	5	or Accounting 4	30	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences or Accounting Life Orientation
BSc (Real Estate)	5	5	or Accounting 4	30	
BSc (Quantity Surveying)	5	5	or Accounting 4	30	
BTRP – Bachelor of Town and Regional Planning	5	4	-	27	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation



Programme	Minimum requirements for 2021			APS	Grade 10 subject package Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school
	Achievement level				
SCHOOL OF ENGINEERING	English Home Language or English First Additional Language	Mathematics	Physical Sciences	35	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation
	NSC/IEB	NSC/IEB	NSC/IEB		
BEng (Industrial Engineering)	5	6	6	35	
BEng (Chemical Engineering)	5	6	6	35	
BEng (Civil Engineering)	5	6	6	35	
BEng (Electrical Engineering)	5	6	6	35	
BEng (Electronic Engineering)	5	6	6	35	
BEng (Mechanical Engineering)	5	6	6	35	
BEng (Metallurgical Engineering)	5	6	6	35	
BEng (Mining Engineering)	5	6	6	35	
BEng (Computer Engineering)	5	6	6	35	

Programme	Minimum requirements for 2021			APS	Grade 10 subject package Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school
	Achievement level				
SCHOOL OF INFORMATION TECHNOLOGY	English Home Language or English First Additional Language	Mathematics		30	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation
	NSC/IEB	NSC/IEB			
BIT (Information Systems)	5	4		30	
BSc (Computer Science)	5	5		30	
BIS (Multimedia)	4	5		30	
BSc (Information and Knowledge Systems)	4	5		30	

Programme	Minimum requirements for 2021		Grade 10 subject package
	Achievement level	APS	
SCHOOL OF INFORMATION TECHNOLOGY	English Home Language or English First Additional Language		NSC/IEB
	NSC/IEB		
BIS (Information Science)	4	28	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics or Mathematical Literacy Life Orientation
BIS (Publishing)	5	28	

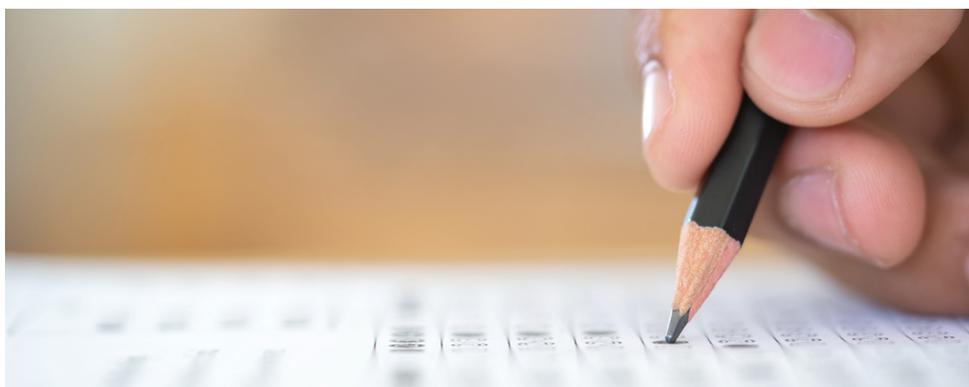
University of Pretoria admission requirements for the programmes in the Faculty of Theology and Religion			Grade 10 subject package
Programme	Minimum requirements for 2021		<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>
	Achievement level	APS	
	English Home Language or English First Additional Language		
	NSC/IEB		
BDiv – Bachelor of Divinity (for admission to MDiv studies)	4	28 (26-27 admission based on the NBT)	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics or Mathematical Literacy Life Orientation
BTh – Bachelor of Theology	4	28 (26-27 admission based on the NBT)	
DipTh – Diploma in Theology	3	24 (22-23 admission based on the NBT)	



University of Pretoria admission requirements for the programmes in the Faculty of Health Sciences						Grade 10 subject package	
Programme	Minimum requirements for 2021					APS	<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>
	Achievement level				NSC/IEB		
	English Home Language or English First Additional Language	Mathematics	Physical Sciences	Life Sciences			
	NSC/IEB	NSC/IEB	NSC/IEB				
BChD – Bachelor of Dental Surgery	5	6	5	-	35	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation 	
BOH – Bachelor of Oral Hygiene	4	4	4	-	25		
BDietetics – Bachelor of Dietetics	4	5	5	-	28		
BOT – Bachelor of Occupational Therapy	4	4	4	-	30		
BPhysio – Bachelor of Physiotherapy	4	4	4	-	30		
BRad (Diagnostics)	4	4	4	-	30		
MBChB – Bachelor of Medicine and Surgery	5	6	5	-	35		
BSportSci – Bachelor of Sports Science	4	4	Physical Sciences or Life Sciences 4		30	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences or Life Sciences Life Orientation 	
BCMP – Bachelor of Clinical Medical Practice	4	4	Physical Sciences or Life Sciences 4		28		
BNurs – Bachelor of Nursing Science	4	4	-	4	28	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Sciences Life Orientation 	



University of Pretoria admission requirements for the programmes in the Faculty of Humanities				Grade 10 subject package
Programme	Minimum requirements for 2021			<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>
	Achievement level		APS	
	English Home Language or English First Additional Language	Mathematics		
	NSC/IEB	NSC/IEB		
BA (Speech-Language Pathology)	5	5	32	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation
BA (Audiology)	5	5	32	
BSocSci (Philosophy, Politics and Economics)	5	5	32	
Bachelor of Social Work (BSW)	5	-	30	
BA	5	-	30	
BA (Law)	5	-	30	
BA (Languages)	5	-	30	
BSocSci (Industrial Sociology and Labour Studies)	5	-	30	
BSocSci (Heritage and Cultural Tourism)	5	-	30	
BPolSci (International Studies)	5	-	30	
BPolSci (Political Studies)	5	-	30	
BA (Fine Arts)	5	-	30	
BA (Information Design)	5	-	30	
BA (Visual Studies)	5	-	30	
Bachelor of Music (BMus)	5	-	30	
Bachelor of Drama (BDram)	5	-	30	



University of Pretoria admission requirements for the programmes in the Faculty of Law			Grade 10 subject package
Programme	Minimum requirements for 2021		<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>
	Achievement level		
	English Home Language or English First Additional Language	APS	
	NSC/IEB		
LLB	5	32	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics or Mathematical Literacy Life Orientation

University of Pretoria admission requirements for the programmes in the Faculty of Veterinary Science				Grade 10 subject package	
Programme	Minimum requirements for 2021			<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p>	
	Achievement level				
	English Home Language or English First Additional Language	Mathematics	Physical Sciences		APS
	NSC/IEB	NSC/IEB	NSC/IEB		
Bachelor of Veterinary Science (BVSc)	5	5	5	35	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation
Bachelor of Veterinary Nursing (BVetNurs)	4	4	4	28	



University of Pretoria admission requirements for the programmes in the Faculty of Natural and Agricultural Sciences					Grade 10 subject package
Programme	Minimum requirements for 2021				
	Achievement level			APS	
	English Home Language or English First Additional Language	Mathematics	Physical Sciences		
	NSC/IEB	NSC/IEB	NSC/IEB		
BSc (Biochemistry)	5	5	5	32	<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p> <ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Physical Sciences Life Orientation
BSc (Biological Sciences)	5	5	5	32	
BSc (Biotechnology)	5	5	5	32	
BSc (Ecology)	5	5	5	32	
BSc (Zoology)	5	5	5	32	
BSc (Entomology)	5	5	5	32	
BSc (Genetics) BSc (Human Genetics)	5	5	5	32	
BSc (Human Physiology) BSc (Human Physiology, Genetics and Psychology)	5	5	5	32	
BSc (Medical Sciences)	5	5	5	32	
BSc (Microbiology)	5	5	5	32	
BSc (Plant Science)	5	5	5	32	
BSc (Chemistry)	5	5	5	34	
BSc (Physics)	5	5	5	34	
BSc (Geography and Environmental Sciences)	5	5	5	34	
BSc (Geoinformatics)	5	5	5	34	
BSc (Geology)	5	5	5	34	
BSc (Meteorology)	5	5	5	34	
BSc (Engineering and Environmental Geology)	5	5	5	34	
BSc (Culinary Science)	5	5	5	32	
BSc (Food Science)	5	5	5	32	
BSc (Nutrition)	5	5	5	32	
BScAgric (Agricultural Economics and Agribusiness Management)	5	5	5	32	
BScAgric (Animal Science)	5	5	5	32	
BScAgric (Plant Pathology)	5	5	5	32	
BScAgric (Applied Plant and Soil Sciences)	5	5	5	32	

Programme	Minimum requirements for 2021			Grade 10 subject package
	Achievement level		APS	
	English Home Language or English First Additional Language	Mathematics		
	NSC/IEB	NSC/IEB		
BSc (Actuarial and Financial Mathematics)	5	7	36	<p>Learners interested in these UP programmes MUST include the subjects in the column below in their NSC/IEB Grade 10 subject package</p> <p>To fill up your Grade 10 subject package, you may choose any additional 20-credit NSC/IEB subjects offered at your school</p> <ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation
BSc (Mathematics)	5	6	34	
BSc (Applied Mathematics)	5	6	34	
BSc (Mathematical Statistics)	5	6	34	
BConSci (Clothing Retail Management)	5	4	28	
BConSci (Food Retail Management)	5	4	28	
BConSci (Hospitality Management)	5	4	28	<ul style="list-style-type: none"> Two languages of which English should be one and of which at least one should be on Home Language level and the other on First Additional Language level Mathematics Life Orientation





University of Pretoria contact information

Learners and parents are most welcome to contact the Department of Enrolment and Student Administration at the University for any enquiries and advice.

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