



**AMBERFIELD**  
COLLEGE

**GR10-11**

**SUBJECT CHOICE**

**INFORMATION**

FOSTERING YOUR CHILD'S FUTURE

*#coolestcollege*



We are excited to share with you the fact that you are now entering the next phase of your school career. In this phase, you choose subjects that you will use for the benefit of your future and your career. Choosing the correct subjects, for possible career choices, is a very difficult and responsible task. It is very important that this process is approached positively and done step by step. It is quite disturbing to find out in your matric year that you made the wrong subject choices. Two of the biggest challenges facing students at tertiary institutions today is the realisation that they are studying in the wrong direction due to incorrect impressions regarding a specific career, or selecting the incorrect subjects.

This information document has been compiled to help you make an informed decision. Parents and learners do not have to panic when choosing an exciting study field and future career path!

## STEP 1

This step is the most difficult one and sometimes discourages parents and learners because the big question is, what does my child want to study or do after school? It is important to start this process by focussing on the broad career fields of interest e.g. Health Sciences, Natural Sciences, Engineering, Humanities, Economic and Management Sciences, Natural and Agricultural Sciences. Be careful not to start the process by focussing only on specific profession e.g. Dentistry, Chemical Engineering etc.

Below is a useful resource where you can get more information on various career fields:

### PACE:

Below is a useful resource where you can get more information on various career fields:

- Go to [www.pacecareers.com](http://www.pacecareers.com)
- Click on "Services"
- Click on "Get career guidance"

Click on "Questionnaires" and register to complete the questionnaire. The questionnaire consists of 105 simple statements to which the learner only has to answer "Yes" or "No".

- As soon as the last question is answered, a profile of the learner's career interests and possible study fields will be displayed where it is clear which fields of interest are the strongest.
- Right next to each field of interest there is a link that can be clicked which then lists all possible careers/

professions within the relevant field of interest.

- If a specific profession is clicked on, the learner will receive complete information related to that profession which includes the following aspects: a summary of what the profession involves, pleasant aspects of the profession, challenging aspects of the profession, typical characteristics that will be required for that profession and also study programmes related to the specific profession.
- It will also help a lot if your child can go to institutions for a day or week to observe and to experience the actual working conditions of a certain profession.

## STEP 2

Subject choices for a specific career.

Below is a summary of each of the possible fields of study:

### TECHNOLOGY AND ENGINEERING

Mathematics and Physical Sciences are compulsory for degree courses and most national diplomas. For B-Tech courses Mathematics and Physical Sciences are a requirement. Some national diploma courses, such as Industrial Design, accept Mathematical Literacy as a subject.

Professions in this field include the following: Engineering, Architectural and Technical Drawing, Building and Construction as well as all the various trades.

## **HEALTH AND LIFE SCIENCES**

Mathematics, Physical Sciences and Life Sciences are compulsory for Medicine, Ophthalmology, Dentistry, Pharmacology, Biological Sciences, Research and the Medical Support Professions. Some Universities accept Mathematical Literacy for Occupational Therapy (by UCT). For Psychology, Social Workers, Counselling and Medical Support Professions, Mathematics or Mathematical Literacy is compulsory and Life Sciences or Physical Sciences are recommended. Professions in this field include the following: Medical practitioners, Ophthalmology or Optometry Support, Dentistry and Support, Health Care, Biology and Medical Research.

## **COMPUTER AND INFORMATION TECHNOLOGY**

This field of study generally requires Mathematics and Physical Sciences and, in some cases, Information Technology. Technical training institutions require Mathematics, Mathematical Literacy and English and recommend Computer Applications Technology, Information Technology and Economics.

## **TRADE AND MANAGEMENT**

The Business Industry, Finance and Management require Mathematics or Mathematical Literacy. Subjects such as Business Studies, Economics, Accounting, Computer Applications Technology or Information Technology are also recommended. All BCom degrees require English or Afrikaans and Mathematics.

Professions in this field include the following: Finances, including Accountants and Auditors; Commercial Trade and Industry; Marketing and Sales; Human Resources and Administration.

## **AGRICULTURE, ENVIRONMENTAL AFFAIRS AND GEOGRAPHICAL SCIENCES**

Mathematics or Mathematical Literacy and / or Life Sciences and / or Geography are usually compulsory for careers in this field. A BSc degree requires English, Afrikaans, Mathematics, Physical Sciences etc. Life Sciences is recommended.

Professions in this field include the following: Agriculture and Farming, Zoology, Environmental Conservation or Waste Management and Recycling, Landscape Architecture and Horticulture, Marine Biology and Ocean Technology, Geography and Archeology.

## **HUMANITIES AND EDUCATION**

Afrikaans and English, Mathematics OR Mathematical Literacy are compulsory for this professional field. Languages, Life Sciences, Tourism, Computer Applications Technology, History, Business Studies and Geography are recommended.

Professions in this field include the following: Education and Training and Educare, Sports and Fitness, Cosmetology, Religious Studies, History and Cultural Professions such as the Anthropology, Antique Dealing, Iconology, Museum Curatorship, Philosophy or Sociology.

## **SERVICE DELIVERY**

Compulsory subjects are Afrikaans, English and Mathematics OR Mathematical Literacy.

Professions in this field include: Travel and Tourism, Hotel Management and Hospitality, Aviation, National Defences such as the South African Army (SADF), the South African Navy, Government or Public Services, Safety and Security.

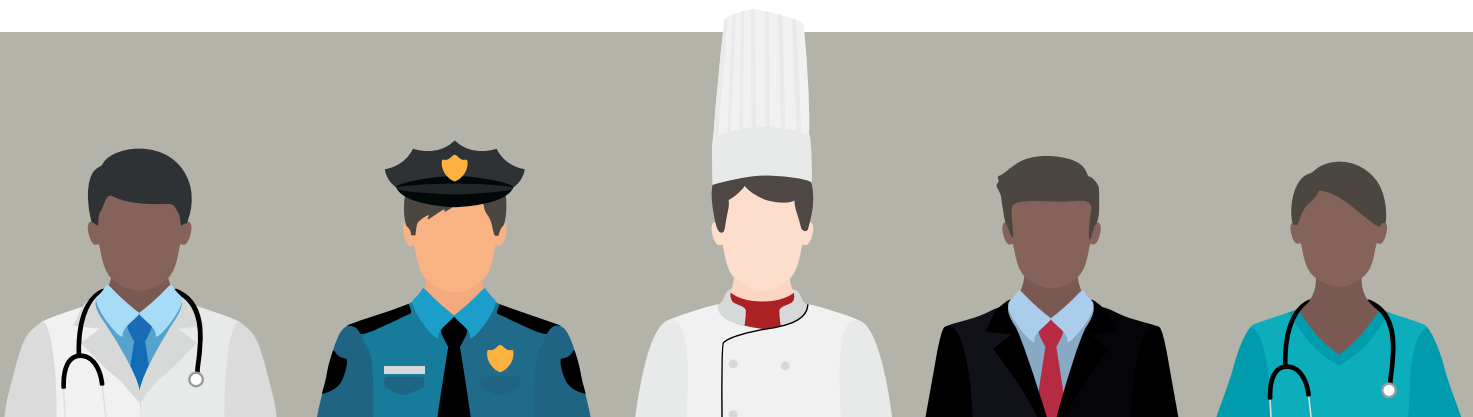
## **ARTS AND CULTURE**

English or Afrikaans OR Mathematical Literacy. Other subjects recommended are Business Studies, Music and Drama depending on the individual.

Professions in this field include the following: Publishing, Music and Entertainment.

## **LANGUAGE AND LAW**

English or Afrikaans, as well as Mathematics OR Mathematical Literacy, are compulsory subjects. Professions in this field include Journalism, for example Writers, Copywriters and Interpreters. Careers in law include Advocates, Attorney or Supportive Legal Professions.



## STEP 3

Subjects that Amberfield College offers in the FET Phase that are in the line with the National Senior Certificate are as follows:

### **COMPULSORY SUBJECTS:**

- English Home Language
- First Additional Language: Afrikaans/ IsiZulu/ Sepedi
- Life Orientation
- Mathematics / Mathematical Literacy

### **CHOICE SUBJECTS:**

- Physical Sciences
- Life Sciences
- Information Technology
- Computer Applications Technology
- Accounting
- Business Studies
- Economics
- Geography
- History
- Music
- Dramatic Arts
- Hospitality
- Consumer Studies
- Tourism
- Engineering Graphics and Design (EGD)

Click on the following link for a short overview on what the various subjects above entail:

<https://drive.google.com/drive/folders/1WvNK9kID7w3PG29FZKikF6nybYdsWeis?usp=sharing>

Please note that the subjects above can only be offered if there is a minimum of 10 learners selecting that subject.

## STEP 4

Knowing what the admission requirements of the various tertiary institutions are for example: Universities, Universities of Technology, Colleges of Further Education and Training (FET Colleges) and Private Colleges are:

- Admission Requirements of the Department of Education
- Admission Requirements of Tertiary Institutions

Admission Requirements for Tertiary Studies as determined by the Department of Education:

### **CRITERIA FOR DIPLOMA STUDIES:**

- A minimum of 40% is required in at least FOUR subjects. (Excluding Life Orientation)

### **CRITERIAL FOR DEGREE STUDIES:**

- A minimum of 50% is required in at least FOUR subjects. (Excluding Life Orientation)

### **ADMISSION REQUIREMENTS OF DIFFERENT TERTIARY INSTITUTIONS:**

Except for the minimum requirements from the Department of Education, each Tertiary Institution has their own requirements for each course.

## STEP 5

### MATHEMATICS OR MATHEMATICAL LITERACY:

All learners do not love Mathematics and do not have an aptitude for it. Learners who do not have an aptitude for Mathematics are unlikely to do well in the subject. Although Mathematics is required in many of the study programmes, it is not necessary to take the subject if the field of study does not require it. Do research on your specific course to make sure if Mathematics is required. It is better to pass Mathematical Literacy than to fail Mathematics. Both learners and parents are encouraged to consult with the Mathematics educator before making the decision to take Mathematics.

## STEP 6

### LIMITATIONS

Mathematics is a REQUIREMENT when choosing Physical Science OR Information Technology.

## FINAL STEP

It is now time to select your subjects.

Click on the link below to access your subject choice form.

<https://forms.gle/hzVENEFaL7utWADk7>

Please complete the form and submit electronically by Thursday, 8th October 2020.

