

UNIVERSITY OF THE FREE STATE

QWAQWA CAMPUS

CALENDAR

FACULTY
OF ECONOMIC AND
MANAGEMENT SCIENCES

2011

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GENERAL ORIENTATION

This section of the Yearbook of the University of the Free State sets out the regulations in respect of the qualifications and study programmes in the Faculty of Economic and Management Sciences offered on the QwaQwa Campus.

FACULTY AND GENERAL REGULATIONS

For the **B.Com. (General Management)** degree a number of regulations apply. Two sets of regulations are relevant:

General regulations of the University, which are applicable to all Faculties of this University, and consequently also apply to qualifications and programmes in this Faculty. Unless specifically stated otherwise, the general regulations which apply to bachelor's degrees, apply to all the degrees listed here.

The general regulations are set out in Part 1 of the Yearbook of the University and contain basic information such as the following:

Admission to the University, to degree and diploma study, and to study for non-degree purposes (separate courses).

Student registration; course modifications; simultaneous registration; course compilation; duration of study; preconditions; acknowledgement of courses passed at other institutions; etc.

Semester- and year marks; requirements for passing; degrees with distinction; re-admission and exclusion of a student; re-evaluations; special examinations; arrangements for examination venues; incorrect reading of examination timetable; marks and final results; etc.

Faculty regulations, which specifically apply to the degrees in this Faculty and are described fully in this publication.

It is the responsibility of students to be conversant of the general regulations as well as the faculty regulations.

FIRST BACHELOR'S DEGREES

INFORMATION

The baccalaureus (i.e. bachelor's) degree in this Faculty is intended to maximally develop a student's capabilities and potential. Scientifically based teaching is applied to equip each student for various career options in the broader field of Economics and Management.

A description of the various modules and subjects appears in the chapter "Syllabuses".

Students pursuing full-time careers are advised to spread their studies for a three year degree over a period of four years (or eight semesters), with a maximum of four courses in each semester for the first and second years of study.

REGULATIONS

FACULTY REQUIREMENTS

University entrance requirements

Students who wish to register for studies at this Faculty must meet the following requirements:

- | |
|---|
| <p>1. Students who achieved their Senior Certificate (SC) at the end of 2007 and before that have to comply with the following admission requirements:</p> |
|---|

1.1 Access in Economic and Management Sciences (Study code 6000)

To be accepted for **Access in Economic and Management Sciences** you have to meet the following admission requirements:

- A Senior Certificate (SC) (Endorsement not necessary)
- An M-score between **20 and 24 points**
- at least a F symbol in Mathematics SG

Apply the formula below to your matriculation results to calculate your M-Score to see whether you meet this requirement.

**1.2 B. Com. 4 year curriculum
(Study code 6338)**

To be accepted for the **B. Com. 4 year curriculum** you have to meet the following admission requirements:

- A Senior Certificate (SC) with endorsement
- An M-score between **25 and 29 points**
- at least a C symbol in Mathematics SG

Apply the formula below to your matriculation results to calculate your M-Score to see whether you meet this requirement.

**1.3 B.Com. (General Management)
(Study code 6301)**

To be accepted for the **B.Com. (General Management)** you have to meet the following admission requirements:

- A Senior Certificate (SC) with endorsement
- A minimum M-score of **30 points**
- A C-symbol in Mathematics SG

Apply the formula below to your matriculation results to calculate your M-Score to see whether you meet this requirement.

SYMBOL OBTAINED IN MATRIC		A	B	C	D	E	F
LEVEL ACHIEVED	Higher Grade	8	7	6	5	4	3
	Standard Grade	6	5	4	3	2	1

<p>2. Students who complete their National Senior Certificate (NSC) at the end of 2008 and after that have to comply with the following admission requirements:</p>
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**2.1 Access in Economic and Management Sciences
(Study code 6000)**

To be accepted for **Access in Economic and Management Sciences** you have to meet the following admission requirements:

- A National Senior Certificate (NSC)
- 4 Subjects with achievement level of **3 (40% - 49%)**
- Admission Point (AP) between **20 – 24**
- Language of instruction: **(English)** - Minimum achievement level **3 (40%)**
- A minimum achievement level of **3 (40%) in Mathematics**
or
- A minimum achievement level of **5 (60%) in Mathematical Literacy**

Apply the formula below to your Grade 12 results to calculate your admission point (AP) to see whether you meet this requirement.

For **Life Orientation**, you need an achievement level of **5 (60%)** or higher to score only 1 point when calculating your admission Point (AP)

**2.2 B.Com. 4 year Curriculum
(Study code 6338)**

To be accepted for the **B.Com. 4 year curriculum** you have to meet the following admission requirements:

- A National Senior Certificate (NSC)
- 4 Subjects with achievement level of **4 (50% - 59%)** from the **“designated list”**
- Admission point (AP) between **25 and 29**
- Language of instruction: **(English)**. Minimum achievement level of **4 (50%)**
- A Minimum achievement level of **4 (50%) in Mathematics**

Apply the formula below to your Grade 12 results to calculate your admission point (AP) to see whether you meet this requirement.

For **Life Orientation**, you need an achievement level of **5 (60%)** or higher to score only 1 point when calculating your admission Point (AP)

2.3 B.Com. (General Management) (Study code 6301)

To be accepted for the **B.Com. (General Management)** you have to meet the following admission requirements:

- A National Senior Certificate (NSC)
- 4 Subjects with achievement level of **4 (50% - 59%)** from the “**designated list**”
- University Free State admission point of **30** or higher
- Language of instruction: **(English)** Minimum achievement level of **4 (50%)**
- A Minimum achievement level of **4 (50%) in Mathematics**

Apply the formula below to your Grade 12 results to calculate your admission point (AP)

For **Life Orientation**, you need an achievement level of **5 (60%)** or higher to score only 1 point when calculating your admission Point (AP)

Calculation of Admission Point (AP)

NSC		7 (80-89%)	6 (70-79%)	5 (60-69%)	4 (50-59%)	3 (40-49%)	2 (30-39%)	1 (-29%)
UFS	8 (90-100%)	7 (80-89%)	6 (70-79%)	5 (60-69%)	4 (50-59%)	3 (40-49%)	2 (30-39%)	-
AP	8	7	6	5	4	3	2	-

“Designated list” of school subjects

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

* Should a prospective student not qualify in respect of this requirement, there are a couple of alternative ways of obtaining admission, namely:

Alternative 1: Pass a course in Mathematics at this or another approved institution of learning.

Alternative 2: Follow a course in Mathematics that is equivalent to the required Grade 12 qualification, while registering simultaneously as an Occasional Student [i.e. for all the first year modules of B.Com. (General Management) omitting Economics]. As soon as a student presents proof of a pass mark for the Mathematics course or Grade 12 equivalent, application can be made for admission to B.Com.(General Management).

As Grade 12 Mathematics (SG) C symbol/ level 4 (50%) equivalent course, the following will be accepted:

- a) Statistics at first year level (STK114 and STK124)
- b) WTV 154 and WTW144*
- c) A Grade 12 (SG) C symbol/level 4 (50%) equivalent or higher Mathematics course taken at another institution of learning such as a university of technology.

* If WTV 154 and WTW164 are obtained it will not form part of the B.Com. (General Management) curriculum.

SEQUENCE OF COURSES AND PREREQUISITES

Unless specific prerequisites are set for a course, as is the case for the subjects listed below, all courses in this Faculty are independent semester or year courses which can be taken in any sequence and without preconditions. Prerequisites for subjects which are not offered by the Faculty of Economic and Management Sciences, appear in the general regulations of the Yearbook (Part 1) and/or in the relevant Yearbooks of other Faculties.

Remember the admission requirements for subjects/courses stipulated above previously.

Students who achieved their Senior Certificate (SC) at the end of 2007 and before that have to comply with the following prerequisites

SUBJECT	COURSE	PREREQUISITE
Accounting	REK208	REK114 or REK124 or FIN114 and FIN124, or ACC108
	REK308	BRF214 and REK204, or FIN208
Business Management	OBS234	Grade12 Mathematics (SG) with a c symbol, or STK114 and STK124
	OBS364	Grade12 Mathematics (SG) with a C symbol minimum, or STK114 and STK124
Economics	EKN114	Grade 12 Mathematics (SG) with a C symbol minimum
Economics	EKN124	Grade 12 Mathematics (SG) with a C symbol minimum
Economics	EKN214	EKN108, or EKN114 and EKN124
	EKN224	EKN108, or EKN114 and EKN124
	EKN314	EKN108, or EKN114 and EKN124
	EKN324	EKN108, or EKN114 and EKN124
Mathematics	WTW114	Grade12 Mathematics (SG) with a C symbol minimum
	or WTW134	Grade12 Mathematics (SG) with a C symbol minimum

Students who complete their National Senior Certificate (NSC) at the end of 2008 and after that have to comply with the following prerequisites

SUBJECT	COURSE	PREREQUISITE
Accounting	REK208	REK114 or REK124 or FIN114 and FIN124, or ACC108
	REK308	BRF224/BRF214 and REK204, or FIN208
Business Management	OBS234	Grade12 Mathematics level 4 (50%) or STK114 and STK124
	OBS364	Grade12 Mathematics level 4 (50%), or STK114 and STK124
Economics	EKN114	Grade12 Mathematics level 4 (50%)
	EKN124	Grade12 Mathematics level 4 (50%)
	EKN224	EKN108, or EKN114 and EKN124
	EKN314	EKN108, or EKN114 and EKN124
	EKN324	EKN108, or EKN114 and EKN124
Mathematics	WTW114 or WTW134	Grade12 Mathematics level 4 (50%),

UNDERGRADUATE PROGRAMME IN PRIVATE SECTOR MANAGEMENT

**BACCALAUREUS COMMERCII
B.COM. (GENERAL MANAGEMENT)
Study code 6301**

INFORMATION

This is the most general B.Com. degree option and is a highly recommended qualification for anyone who would like to have a basic and solid background in general management. It prepares students for a wide variety of career choices such as management positions in various areas of the private sector as well as in the field of economics.

The core subjects for this degree centre around Economics on the one hand and Business Management on the other (including Marketing and/or Financial Management). In the third academic year a choice may be made between Accounting and Industrial Psychology as a major subject.

Accounting must be taken at second-year level at least, an indication of its importance in the sphere of management.

CONDITIONS FOR ADMISSION

Refer to the General University Admission regulations as well as the Faculty admission regulations.

TIMETABLE CLASHES

Students must compile their curricula in accordance with the class and lecture hall timetable and are personally responsible to ensure that there are no clashes. This is important because lecture timetable clashes may result in examination timetable clashes.

B.COM. (GENERAL MANAGEMENT)
Study code 6301

	FIRST YEAR		SECOND YEAR		THIRD YEAR	
COMPULSORY:	Sem. 1	Sem. 2	Sem. 1	Sem. 2	Sem. 1	Sem. 2
Economics	EKN114	EKN124	EKN214	EKN224	EKN314	EKN324
Business Management	OBC134			OBS244	OBS314	
Marketing		OBC144				OBS324 or OBS364
Financial Management			OBS234			
Industrial Psychology	HUM114	ORG124	ELR214	OCP224		
Accounting	ACC108	ACC108	REK208	REK208 MAC224		
Statistics	STK114	STK124				
	or	or				
Mathematics	WTW114*	WTW124*				
	or	or				
	WTW134#	WTW144#				
English	ENG198	ENG198				
Computer Literacy			BRS111			
Advanced computer usage				RIS121		
CHOICES:			Choose one subject from:		Choose one subject from:	
Computer Science and Informatics			RIS134	RIS144		
Mathematics			WTW214	WTW224 WTW262		
Introduction to Tourism			TRM214			
Tourism safety and Security management				TRM224		
Industrial Psychology					TRG314	RSM324
Accounting					REK308	REK308
Public Management			OBB214	OBB224	OBB314	OBB324

*WTW114 and WTW124 should be taken by students with Grade 12 Mathematics AP level 4 (50%)

#WTW134 and WTW144 should preferably be taken by students who intend to do only first year Mathematics.

BACCALAUREUS COMMERCII
B.COM 4 YEAR CURRICULUM
Study code 6338

INFORMATION

The B.Com. 4 Year Curriculum is recommended for students with the following qualifications:

AP = 25 – 29 Mathematics – Achievement level 4 (50%) OR

A Senior Certificate with endorsement Grade 12 Mathematics (SG) C symbol An M score of 25 - 29 marks
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CONDITIONS FOR ADMISSION

Refer to the General university admission regulations as well as the Faculty admission regulations.

TIMETABLE CLASHES

Students must compile their curriculums in accordance with the class and lecture hall timetable and the examination timetable, and are personally responsible to ensure that there are no clashes.

B.COM. 4 YEAR CURRICULUM
[Study code 6338]

	First year of study		Second year of study		If all modules from the first two years had been passed, change to B.Com. (General Management)	SECOND YEAR Third year of study	THIRD YEAR Fourth year of study
	Sem 1	Sem 2	Sem. 1	Sem. 2			
COMPULSORY:							
Economics			EKN114	EKN124		Follow the second year as prescribed for B.Com.(General Management)	Follow the third year as prescribed for B.Com. (General Management)
Business Management☒			OBC134				
Marketing☒				OBC144			
Financial Management☒							
Industrial Psychology	HUM114	ORG124					
Accounting and Management Accounting			ACC108	ACC108			
Academic Language Module	ALC108	ALC108					
Statistic	STK114	STK124					
Business English			ENG198	ENG198			
Computer Literacy	RIS111			RIS121			
Mathematical Literacy	MTE 108	MTE 108					
Information Competency							
Skills en Competencies for Life Long Learning	VBL108	VBL108					

ADDITIONAL REGULATIONS REGARDING THE B.COM. 4 YEAR CURRICULUM

1. To obtain admission to the second year of study, two of the three development modules taken during the first year of study (i.e. ALC108, MTE108, VBL108) as well as at least 32 B.Com.3-year degree credits should be passed at the end of the first year of study.
2. To obtain admission to the third year of study an additional 32 B.Com.3-year degree credits should be passed.

SYLLABUSES

DEPARTMENT OF BUSINESS MANAGEMENT

OBC134: GENERAL MANAGEMENT (16 CREDITS)

Introduction to general management
Development of management philosophy
The management environment and relevant aspects
Planning as management task
Problem solving and decision-making
Planning principles
Planning process
Planning tools
Organising as management task
Organising concepts and the organising process
Organisational structures
Activating as management task
Elements of activating
Control as management task
Elements of control
The control process

OBC144 : MARKETING (16 CREDITS)

Fundamentals of marketing
The marketing environment
Market segmentation and targeting
Product decisions
Product concept
Product development
Trade marks
Packaging
Distribution decisions
Distribution channels
Physical distribution
Pricing decisions
Price objectives
Price determination
Marketing communication decisions
Advertising
Personal selling
Sales promotion and publicity

**OBS234: FUNDAMENTALS OF FINANCIAL MANAGEMENT
(16 CREDITS)**

Nature and extent of financial management
Financial management in perspective
Analysis of financial statements
Measurement and evaluation of financial performance
Evaluation of business performance by means of ratio analysis
Financial failure and financial performance
Financial planning
The nature of budgets
Integrated budgeting system
Financial control
The management of working capital
Financing decision
Forms of financing
Sources of financing
The influence of the financing decision

OBS244: ENTREPRENEURSHIP (16 CREDITS)

Entrepreneurship and entrepreneurs
The entrepreneurial process
 Creativity and the business opportunity
 The business plan
 Financing of an entrepreneurial business
Alternative routes to entrepreneurship
 Buying a franchise
 Entering the family business
Post-start-up challenges
 Managing growth
 Growth strategies and options
 E-commerce
Intrapreneurship

OBS314: STRATEGIC MANAGEMENT (16 CREDITS)

An introductory overview of strategic management
The hierarchy of management
The strategic management concept
Strategy formulation
An introductory overview of strategy formulation
Necessity of a business strategy
The implementation of an industry and competitive analysis

Generic business strategies
Developing and maintaining a competitive advantage
Strategy evaluation
Strategy implementation
Structuring
Resource allocation

**OBS324: ADVANCED MARKETING MANAGEMENT
(16 CREDITS)**

Marketing Management Process
Strategic market plan
Aids to strategic planning
Planning according to product-life cycle
Organising and co-ordinating marketing strategy
Control over marketing strategy
Analysis of marketing environment
Marketing information
Marketing research
Market measurement and market projection
Analysis of consumer decision-making
Models for explaining consumer behaviour
Determinants of consumer decision-making
Purchasing decision-making
Marketing application areas
Marketing of industrial goods
Marketing of services
Marketing of agricultural products
International marketing

OBS364: FINANCIAL MANAGEMENT (16 CREDITS)

Introduction to financial management
Long term financial planning and growth
The time value of money
Valuing shares and bonds
Capital budgeting/Investment decisions
Net present value and investments
Capital investment decisions
Project analysis and evaluation
Risk and return
The capital market history
Return, risk and the security market line
Capital structure

Long term financing
The cost of capital
Financial leverage and the capital structure
Dividends and the divided policy
Special financial management topics
Leasing
Mergers and acquisitions
International financing

CENTRE FOR ACCOUNTING

ACC108: ACCOUNTING (32 CREDITS)

Accounting framework, concepts, principles and procedures
Basic revenue recognition
Accounting transactions (including VAT)
Journals
Accounting entries
Elements of financial statements
Assets control and depreciation
Stock (FIFO and average)
Control accounts
Payment advice notes
Reconciliation statements
Financial statements of suppliers of services and dealers
Departmental accounts
Manufacture statements
Partnerships
Financial statements
Entry
Dissolution
Non-profit enterprises
Incomplete records
Analysis and interpretation of financial information
Single owner businesses
Partnerships
Cash flow statements
Single owner businesses
Partnerships

**MAC224: MANAGEMENT ACCOUNTING AND FINANCE
(16 CREDITS)**

Features of cost
Basic manufacturing accounts
Job costing
Process costs
Budgets and budgetary control
Variable and absorption cost systems

REK208: ACCOUNTING (16 CREDITS)

Accounting framework, concepts, principles and procedures
Revenue recognition
Companies: accounting entries and financial statements
Redemption of redeemable preference shares
Close corporations: accounting entries and financial statements
Cash flow statements: companies and close corporations
Advanced analysis and interpretation: companies and close corporations
Branches: dependent and independent
Joint ventures
Consignments

REK308: ACCOUNTING (32 CREDITS)

Accounting framework, concepts, principles and procedures
Presentation of financial statements
Revenue recognition, more advanced applications
External reporting
Companies and close corporations Act requirements
Net profit for the period
Income taxes
Earnings per share
Leases
Stock
Cash flow statements
Property, plant and equipment
Group statements
Investment accounts and underwriters
Advanced analysis and interpretation of financial information
Applicable new developments in GAAP

DEPARTMENT OF ECONOMICS

EKN114: INTRODUCTION TO ECONOMICS AND MICRO-ECONOMICS (16 CREDITS)

Economic crises of our time

The South African issues

Economics as a science

Socio-economic development and corresponding economic thought, theory and systems

The premarket social system

The development of the market economy and the accompanying thoughts of the Mercantilists, Physiocrats and the Classical School; the Industrial Revolution and the ensuing pessimism of Malthus and Ricardo
The Marxist criticism and ensuing centrally planned economy; the Neo-classical reactions of Walras and Marshall

Relevance for contemporary thought, also in South Africa, on the functioning of an economy

Introduction to Microeconomics

The use of graphs in economic analysis

Supply and demand, elasticity, opportunity cost, consumer theory, the theory of the firm.

EKN124: INTRODUCTION TO MACROECONOMICS (16 CREDITS)

Definition and measurement by macroeconomic indicators

National accounts

Keynesian macroeconomic theory

Income determination

The monetary sector, the money-creating process and interest rates

The components of total expenditure, the role of the government and the budget

The connection and interaction between the real and monetary sectors

The openness of South Africa's economy and the implications thereof

Introduction to monetary and fiscal policy

Economic theory after Keynes

EKN214: MICROECONOMICS (16 CREDITS)

Types of competition in the economy, atomistic competition, monopolies, oligopoly and monopolistic competition

Economic concentration and market structure: the historical trend and the South African situation

The functioning of factor markets: the labour market; the interaction between the product market and the labour market

Markets and the government: the role of competition

International trade theory, imperfect competition and international trade; South African trade patterns

EKN224: MACROECONOMICS (16 CREDITS)

Modern Keynesian theory: the functioning of and interaction between the real and monetary sectors; the international sector; aggregate demand and aggregate supply; unemployment, inflation and stagflation

Classical macroeconomic theory, monetarism, rational expectations.

Monetary and fiscal policy

National accounts, identities and macroeconomic constraints

EKN314: INTERNATIONAL ECONOMICS (16 CREDITS)

The international economic environment

The pure theory of international trade

Modern theory of international trade policy

The role of the government in international trade

Application of the terms of trade

South African trade policy issues

Regional economic integration

International economic cooperation

Exchange rates

The forex market

The balance of payments

The international monetary system

South Africa and the global economy

The driving forces of globalisation

The impact of globalisation on the world economy

EKN324: SOUTH AFRICAN ECONOMIC POLICY ISSUES (16 CREDITS)

South African labour market issues: functioning, employment and unemployment, and policy.

Economic development: a global perspective, latest approaches and South African economic development issues.

Fiscal policy issues such as the relationship between fiscal sustainability and sustainable development.
Other relevant economic policy issues.

DEPARTMENT OF INDUSTRIAL PSYCHOLOGY

HUM114: HUMAN RESOURCE MANAGEMENT (16 CREDITS)

- Personnel planning
 - Planning
 - Recruitment
 - Selection
- Personnel development
 - Performance appraisal
 - Training (model)
- Maintenance of personnel
 - Compensation
 - Benefits
 - Occupational health
 - Stress
 - Labour relations
 - Management ethics

ORG124: ORGANISATION PSYCHOLOGY (16 CREDITS)

- Individual behaviour
 - Personality
 - Perceptions
 - Decision making
 - Learning
 - Values
 - Attitudes
 - Job satisfaction
 - Motivation
- Group behaviour
 - Group functioning
 - Work teams
 - Communication and leadership

ELR214: EMPLOYEE AND LABOUR RELATIONS (16 CREDITS)

Orientation and introduction
The employment relationship
Aspects that affects and regulates the employment relationship
Ending the employment relationship
Individual aspects required by the human resource practitioner in order to regulate the employment relationship

OCP224: CAREER PSYCHOLOGY (16 CREDITS)

Meaning of work
Career management model
Career choice theory
Life and career stages
Implications of organisation change for careers
Twenty first century's career model
Organisation support: an organisational perspective
Career issues: Career anchors
Mentorship
Plateau worker
Life style integration

RSM324: RESEARCH METHODOLOGY (16 CREDITS)

Methods of acquiring knowledge
Research process
Pre-data-gathering phase
Identifying a research topic
Problem formulation (research question, objectives and hypotheses)
Literature review
Research design (type of research design, sampling method, data gathering method, identifying the statistical procedure)
Research proposal
Data-gathering phase
Specific focus on psychometric tests
Post-data gathering phase
Data analysis
Interpretation
Communication of results (writing the research report)
Guidelines for writing a research script

TRG314: TRAINING AND DEVELOPMENT (16 CREDITS)

Macro perspective regarding training in South Africa
A micro perspective regarding strategic developmental management within organisational context

The psychology of learning
The design of a training programme
The developing phase of training design
The evaluation of the training programme
The training of trainers: facilitation skills
In-service training
Relevant legislation regarding training
Training of entrepreneurs
Training of adult learners
Source based training
training of jobless people

SUBJECTS IN OTHER FACULTIES

FACULTY OF NATURAL AND AGRICULTURAL SCIENCES

DEPARTMENT OF MATHEMATICS AND APPLIED MATHEMATICS

WTW114: **CALCULUS (16 CREDITS)**

Contents: The real numbers. Functions. Limits and continuity. Differentiation: theory, techniques and applications. The Mean Value theorem. Sketching curves. Inverse functions. Transcendental functions. Integration: theory, techniques and applications.

Outcome: Successful learners will be able to demonstrate their skill with calculus, using mathematically logical arguments, by solving problems and by application of the theory.

Note: Learners intending to study WTW114 are advised to take Grade 12 Mathematics at Higher Grade.

WTW124: **ALGEBRA AND DIFFERENTIAL EQUATIONS (16 CREDITS)**

Contents: The binomial theorem. Complex numbers. Introductory linear algebra: Systems of linear equations, matrices, determinants, vectors in \mathbb{R}^2 and \mathbb{R}^3 , lines and planes, Conic sections. Multivariable functions. Partial derivatives. Elementary differential equations.

Outcome: Successful learners will be able to describe the introductory theory of linear algebra, complex numbers, conic sections and differential equations, and will be able to solve problems.

WTW134: CALCULUS (16 CREDITS)

Contents: Functions, graphs, limits, continuity and the derivative. Polynomial, trigonometric, exponential and logarithmic functions. Differentiation. Critical points and local maxima and minima. Introduction to modelling. The definite integral. Integration techniques.

Outcome: Successful learners will be able to demonstrate their skill with basic calculus by solving problems and by application of the theory.

Note: **WTW134 is not equivalent to WTW114.** Students who passed WTW134 must pass a special departmental examination in WTW114 in order to gain admission to certain second year mathematics modules

WTV154: BASIC MATHEMATICS (16 CREDITS)

Contents: Development of skills with arithmetic and mathematical calculations. Real numbers, algebraic expressions. Algebraic and graphical solution of equations. Logarithms and exponents. The use of a pocket calculator. Basic geometry and elementary trigonometry, the calculation of areas and volumes. Simple and compound interest. Grouping of data and descriptive statistics.

Outcome: Learners have developed basic skills with algebraic manipulations and with mathematical techniques.

WTW224: LINEAR ALGEBRA (16 CREDITS)

Contents: Real vector spaces: basis, dimension, subspace. Linear mappings: kernel, image, representation of a linear mapping as a matrix, inverse. Inner product and orthogonality: orthogonal bases, rank, bilinear mappings, quadratic forms. Determinants. Eigenvalues and eigenvectors: characteristic polynomial of a linear mapping, symmetric matrices, diagonalisation. The Cayley-Hamilton theorem.

Outcome: Learners understand the theory of linear algebra, i.e., they understand the algebra of abstract vector spaces which includes linear mappings, inner products, orthogonality, quadratic forms, symmetric matrices and diagonalisation.

WTW262: SEQUENCES AND SERIES (8 CREDITS)

Contents: Sequences of real numbers: convergence, limits, boundedness, indeterminate forms, L'Hospital's rule. Improper integrals. Infinite series: tests for convergence, absolute and conditional convergence. Taylor series. Power series: intervals of convergence.

Outcome: Learners understand the basic theory of sequences and series of real numbers. They can apply the theory by determining the power series expansion and intervals of convergence of functions.

DEPARTMENT OF MATHEMATICAL STATISTICS AND STATISTICS

STK114: INTRODUCTION TO STATISTICS I (16 CREDITS)

Contents: Elementary calculations, elementary interest calculations, index numbers, time series, introduction to statistics, collection of data.

After successfully completed the model the student must be able to

do the basic mathematical operations, calculate the different types of interests and annuities, calculate and interpret index numbers, interpret time series graphically and analyse the data to predict future values, understand what statistics are, collect data by means of different techniques and design a questionnaire to collect data, and

have the skills to do mathematical calculations, distinguish between different types of data, collect data, make decisions regarding the methods used to collect data, be familiar with the different steps in the research process.

This module has a value of 16 credits, 14 credits for subject specific learning outcomes and 2 credits for critical (generic) outcomes with respect to literacy skills in oral and written reasoning, numeracy skills and the skills to make decisions with respect to the collecting of data.

STK124: INTRODUCTION TO STATISTICS II (16 CREDITS)

Contents: The organising, graphical presentation and description of data, elementary principles of probability, confidence intervals, hypothesis testing, correlation, regression, contingency tables, analysis of variance.

After successfully completed the model the student must be able to organise data, graphically present data and apply statistical techniques to make interpretations, calculate probabilities for different distributions, determine confidence intervals and do hypothesis tests, determine the relationship between variables, interpret the relationship and present it graphically, and have the skills to solve problems, follow the steps of the research process, make decisions regarding the statistical methods to be applied, analyse data and make logical conclusions from the results.

This module has a value of 16 credits, 14 credits for subject specific learning outcomes and 2 credits for critical (generic) outcomes with respect to literacy skills in oral and written reasoning, numeracy skills,

problem solving skills and the analysis and obtaining information from data sets.

DEPARTMENT OF GEOGRAPHY

TRM214: INTRODUCTION TO TOURISM (16 CREDITS)

The nature and meaning of tourism, definitions, systems and dimensions of tourism.

Tourism demand, travel patterns and trends

The impact of tourism on economic development, environmental and host-community

TRM224: TOURIST SAFETY AND SECURITY MANAGEMENT (8 CREDITS)

Planning for tourism safety and security

National responsibilities

Local responsibilities

A sectoral approach to tourism, safety and security

Tourist safety and security information.

DEPARTMENT OF COMPUTER SCIENCE AND INFORMATICS

BRS111: BASIC COMPUTER LITERACY (4 CREDITS)

One lecture per week and one three-hour practical per week during the first semester.

This course is evaluated by continuous assessment and no special examinations are granted.

After the successful completion of the module the learner should:

have a basic knowledge of the principles of microcomputers, and microcomputer hardware,

have knowledge of the basic commands of an operating system and must be able to apply it,

have knowledge of the basic commands of a general word processing program and must be able to apply it,

have knowledge of the basic commands of a spread-sheet program and must be able to apply it,

have knowledge of the basic commands of the Internet and must be able to apply it.

RIS121: ADVANCED COMPUTER USAGE (4 CREDITS)

One lecture per week and one three-hour practical per week during the second semester.

Pre-requisite RKG131, RKG141 or BRS111 or BAS111.

This course is evaluated by continuous assessment, and no special examinations are granted.

After the successful completion of the module the learner should:

- have knowledge of advanced aspects of a general word processing program, like tables and communication by way of spreadsheets, and must be able to apply it,
- have knowledge of advanced aspects of spreadsheets, such as graphs and macros, and must be able to apply it,
- have knowledge of the basic commands of a presentation program and must be able to apply it,
- have knowledge of the basic commands of a database program and must be able to apply it.

RIS134: INTRODUCTION TO COMPUTERS FOR BUSINESS ENVIRONMENTS (16 CREDITS)

Three lectures and one three-hour practical per week in the first semester.

Co-requirement BRS111.

One examination paper of three hours.

The module deals with aspects that include the origins and development of the computer, the basic working of a modern computer, computerised problem solving and an introduction of algorithms and objects, control structures, object-oriented program design using a high-level programming language, and simple input and output.

After the successful completion of the module the learner should:

- be able to do basic problem solving in an object oriented, visual, high-level programming environment.

Two of the 16 credits are allocated to critical (generic) out-comes with respect to computer skills, problem solving, numerical skills and written reasoning in this module.

RIS144: INTRODUCTION TO INFORMATION SYSTEMS (16 CREDITS)

Three lectures and one three-hour practical per week in the second semester.

Pre-requisite RIS134.

One examination paper of three hours.

This module deals with information systems and business-oriented programming, file design, functions and parameter passing, debugging techniques, user communication and report writing, data manipulation, indexing and sorting.

After the successful completion of the module the learner should have:

a thorough knowledge of functions and parameter transfer, debugging techniques, arrays, and file handling,

a thorough knowledge of information systems and user communication,

a thorough knowledge of business programming and the practical implementation thereof.

Two of the 16 credits are allocated to critical (generic) out-comes with respect to computer skills, problem solving, numerical skills and written reasoning in this module.

FACULTY OF THE HUMANITIES

DEPARTMENT OF ENGLISH

ENG198 ENGLISH ACADEMIC SKILLS

This course is an English language skills training course which focuses on the academic language skills needed by students at tertiary level.

The course addresses the needs of second language speakers of English, in particular.

The course covers a range of skills needed in an academic context such as reading of academic texts, writing of academic paragraphs and essays as well as academic vocabulary-building.

The course also includes an extensive reading programme which provides learners with the opportunity of reading a variety of novels and short stories to extend their world knowledge and general language skills.

The focus of the course is not a literary one, but the aim is to develop the language skills needed to be successful in an academic context.