# University of Pretoria Yearbook 2022

# BCom (Economics) (07130052)

| | |
|---|---|
| **Department** | Economics |
| **Minimum duration of study** | 3 years |
| **Total credits** | 418 |
| **NQF level** | 07 |

## Programme information

The purpose of this qualification is to provide graduates with knowledge on the working of economics and economic policy in South Africa and the influence exerted on it by the global economy and general markets conditions, related to government policy and regulation. This programme will provide students with the necessary theoretical and applied principles of the instruments and effects of economic policy, such as fiscal policy, monetary policy and labour policy. Graduates will be able to do a prognosis and analysis of the South African economy and therefore be able to advise management in the private as well as public sectors. Candidates will also be provided with the necessary statistic, computer and communication skills.

Students who achieved 70% and above in English Home Language (an A or a B), and 80% and above in English First Additional Language (only an A) in the NSC (or equivalent) will be exempted from ALL 124 and therefore do not have to register and pass this module to complete their degrees. Students who achieved 69% and below in English Home Language (a C and below), and 79% and below in English First Additional Language (a B and below) have to register for ALL 124 and pass this module in order to be awarded their degrees.

Students who achieved 70% for English at Cambridge A level or AS level will be exempted from ALL 124.

## Admission requirements

**Important information for all prospective students for 2022**

- The admission requirements apply to students who apply for admission to the University of Pretoria with a **National Senior Certificate (NSC) and Independent Examination Board (IEB) qualifications.**
- **Applicants with qualifications other than the abovementioned** should refer to:
  - **Brochure:** Undergraduate Programme Information 2022: Qualifications other than the NSC and IEB, available at click here.
- **Citizens from countries other than South Africa (applicants who are not South African citizens)** should also refer to:
  - **Brochure:** Newcomer's Guide 2021, available at click here.
  - **Website:** click here.
- **School of Tomorrow (SOT), Accelerated Christian Education (ACE) and General Education Development Test (GED):** The University of Pretoria no longer accepts qualifications awarded by these institutions.
- **National Certificate (Vocational) (NCV) Level 4:** The University of Pretoria may consider NCV candidates,

provided they meet the exemption for bachelor's status criteria and the programme requirements.

**Transferring students**

A transferring student is a student who, at the time of application for a degree programme at the University of Pretoria (UP) –

- is a registered student at another tertiary institution, **or** was previously registered at another tertiary institution and did not complete the programme enrolled for at that institution, and is not currently enrolled at a tertiary institution, **or** has completed studies at another tertiary institution, but is not currently enrolled at a tertiary institution, **or** has started with tertiary studies at UP, then moved to another tertiary institution and wants to be readmitted at UP.

A transferring student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** having completed a higher certificate at a tertiary institution with faculty-specific subjects/modules passed (equal to or more than 50%), as well as complying with faculty rules on admission;
- previous academic performance (must have passed all modules registered for up to the closing date of application ) or as per faculty regulation/promotion requirements;
- a certificate of good conduct.

**Note:** Students who have been dismissed at the previous institution due to poor academic performance, will not be considered for admission to UP.

**Returning students**

A returning student is a student who, at the time of application for a degree programme –

- is a registered student at UP, and wants to transfer to another degree at UP, **or** was previously registered at UP and did not complete the programme enrolled for, and did not enrol at another tertiary institution in the meantime (including students who applied for leave of absence), **or** has completed studies at UP, but is not currently enrolled or was not enrolled at another tertiary institution after graduation.

A returning student will be considered for admission based on

- an NSC or equivalent qualification with exemption to bachelor's or diploma studies (whichever is applicable); **and** meeting the minimum faculty-specific subject requirements at NSC or tertiary level; **or** previous academic performance (should have a cumulative weighted average of at least 50% for the programme enrolled for);
- having applied for and was granted leave of absence.

**Note:** Students who have been excluded/dismissed from a faculty due to poor academic performance may be considered for admission to another programme at UP.  The Admissions Committee may consider such students if they were not dismissed more than twice. Only ONE transfer between UP faculties will be allowed, and a maximum of two (2) transfers within a faculty.

**Important faculty-specific information on undergraduate programmes for 2022**

- The closing date is an administrative admission guideline for non-selection programmes. Once a non-selection programme is full  and has reached the institutional targets, then that programme will be closed for further admissions, irrespective of the closing date. However, if the institutional targets have not been met by the closing date, then that programme will remain open for admissions until the institutional targets are met.
- The following persons will be considered for admission: Candidates who have a certificate that is deemed by the University to be equivalent to the required National Senior Certificate (NSC) with university endorsement; candidates who are graduates from another tertiary institution or have been granted the status of a graduate of such an institution, and candidates who are graduates of another faculty at the University of Pretoria.

- Life Orientation is excluded when calculating the APS.
- All modules will be presented in English, as English is the language of tuition, communication and correspondence.

**University of Pretoria website:** click here

| **Minimum requirements Achievement level** | | |
|---|---|---|
| **English Home Language or English First Additional Language** | **Mathematics** | **APS** |
| NSC/IEB | NSC/IEB | |
| 5 | 5 | **32** |

# Additional requirements

General Academic Regulations G1 to G15 apply to a bachelor's degree.

1. A student may not take more than the prescribed number of modules per semester unless permission has been obtained from the Dean.
2. A module that has already been passed may only be repeated with the approval of the Dean.
3. It remains the student's responsibility to ascertain, prior to registration, whether all the modules he/she intends taking can be accommodated in the class, test and examination timetables.
4. The Faculty of Economic and Management Sciences supports an outcomes-based education system and places a high premium on the development of specific academic competences. Class attendance of all modules and for the full duration of all programmes is therefore compulsory for all students.
5. The Dean has the right of authorisation regarding matters not provided for in the General Academic Regulations or the Faculty regulations.

# Other programme-specific information

**Note: See the alphabetical list of modules for prerequisites of all modules.**

# FRK 122 is a terminating module. Candidates will not be able to continue with Financial accounting in the second or third year.

**Specialisation modules:** EKN 310, 320, 315, 325.

"Major subject"
To be considered a "major subject" the equivalent of four 14-week modules, including two at 300-level, must be passed provided that:

- a module passed at 300-level shall only be recognised for degree purposes if the corresponding prescribed module(s) at 200-level has/have been passed, unless the Dean decides otherwise;
- the following modules which are offered at 300-level only, are also considered "major subjects": Labour law 311 (ABR 311), Labour relations 320 (ABV 320), and International business management 359 and 369 (OBS 359 and 369); and
- only two 14-week modules, or the equivalent thereof, that are not preceded by the 100- and 200-level modules, may be taken for degree purposes. In other words, at least four 14-week modules must be taken at 300-level that are preceded by the 100- and 200-level, except for modules offered on 200- and 300-level only.

It is thus the responsibility of students to ensure before registration, that their curricula comply with all the

requirements of the applicable regulations.

# Promotion to next study year

*According to General Academic Regulation G3 students have to comply with certain requirements as set by the Faculty Board.*

1. In order to register for the next year of study a student must pass at least 60% of the official credits listed for a year level of study for a three-year programme.
2. A student will be deemed to be in the second, third or a more senior year once he or she enrols for any module in any of these levels of study.
3. If a student has passed less than the required minimum of at least 60% of the official credits listed for a year level, he/she will not be readmitted to the Faculty of Economic and Management Sciences. Such a student may apply in writing to the EMS Appeals Committee to be readmitted conditionally – with the proviso that the Appeals Committee may set further conditions with regard to the student's academic progress. The Committee may deny a student's application for readmission.
4. If a student has been readmitted conditionally, his/her academic progress will be monitored after the first semester examinations to determine whether he/she has complied with the requirements set by the EMS Appeals Committee. If not, his/her studies will be suspended.
5. A student whose studies have been suspended because of his/her poor academic performance has the right to appeal against the decision of the EMS Faculty Appeals Committee.
6. A student may be refused admission to the examination, or promotion to a subsequent year of study or promotion in a module (if applicable) if he/ she fails to fulfil the attendance requirements. Class attendance in all modules and for the full duration of all programmes is compulsory for all students.

# Pass with distinction

a. A degree may be awarded with distinction provided the candidate meets the following criteria:

i. Completes the degree within three years;
ii. Obtains a Cumulative Grade Point Average (CGPA) of 75%;
iii. Repeated passed modules will not be considered. The initial pass mark of module will be used when calculating the GPA.

b. A degree will only be awarded with distinction to transferees from other degrees in the Faculty of Economic and Management Sciences, other faculties and from other universities who still complete their bachelor degrees within three years (including the years registered for the other degree and credits transferred and recognised).
c. The GPA will be not be rounded up to a whole number.
d. Exceptional cases will be considered by the Dean.

# General information

**Application of amended programme regulations**
Refer to General Academic Regulation G5.

# Curriculum: Year 1

**Minimum credits: 137**

Students who did not obtain at least a symbol 5 (60-69%) in Mathematics in the final NSC (or equivalent) must first pass Statistics 113 and 123. STK 110 will be credited but students still need to pass STK 120 or equivalent.

## Fundamental modules

### Academic information management 111 (AIM 111)

| | |
|---|---|
| **Module credits** | 4.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Economic and Management Sciences<br>Faculty of Humanities<br>Faculty of Law<br>Faculty of Health Sciences<br>Faculty of Natural and Agricultural Sciences<br>Faculty of Theology and Religion |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Information Science |
| **Period of presentation** | Semester 1 |

**Module content**

Find, evaluate, process, manage and present information resources for academic purposes using appropriate technology.

### Academic information management 121 (AIM 121)

| | |
|---|---|
| **Module credits** | 4.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Economic and Management Sciences<br>Faculty of Humanities<br>Faculty of Law<br>Faculty of Health Sciences<br>Faculty of Natural and Agricultural Sciences<br>Faculty of Theology and Religion<br>Faculty of Veterinary Science |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 2 lectures per week |

| | |
|---|---|
| **Language of tuition** | Module is presented in English |
| **Department** | Informatics |
| **Period of presentation** | Semester 2 |

**Module content**

Apply effective search strategies in different technological environments. Demonstrate the ethical and fair use of information resources. Integrate 21st-century communications into the management of academic information.

### Academic literacy for Economic and Management Sciences 124 (ALL 124)

| | |
|---|---|
| **Module credits** | 6.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Economic and Management Sciences |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Unit for Academic Literacy |
| **Period of presentation** | Semester 1 and Semester 2 |

**Module content**

This module is intended to equip students with the competence in reading and writing required in the four high impact modules: Business Management, Financial Accounting, Statistics and Economics. Students will also be equipped to interpret and draw figures and graphs and to do computations and manage relevant formulas. Students attend two lectures per week during semester two.

*This module is offered by the Faculty of Humanities.*

### Academic orientation 107 (UPO 107)

| | |
|---|---|
| **Module credits** | 0.00 |
| **NQF Level** | 00 |
| **Language of tuition** | Module is presented in English |
| **Department** | Economic and Management Sciences Deans Office |
| **Period of presentation** | Year |

## Core modules

### Economics 110 (EKN 110)

| | |
|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 05 |

| | |
|---|---|
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 1 |

**Module content**

This module deals with the core principles of economics. A distinction between macroeconomics and microeconomics is made. A discussion of the market system and circular flow of goods, services and money is followed by a section dealing with microeconomic principles, including demand and supply analysis, consumer behaviour and utility maximisation, production and the costs thereof, and the different market models and firm behaviour. Labour market institutions and issues, wage determination, as well as income inequality and poverty are also addressed. A section of money, banking, interest rates and monetary policy concludes the course.

## Economics 120 (EKN 120)

| | |
|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 110 GS or EKN 113 GS and at least 4 (50-59%) in Mathematics in the Grade 12 examination or 60% in STK 113 and concurrently registered for STK 123 |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 2 |

**Module content**

This module deals with the core principles of economics, especially macroeconomic measurement the private and public sectors of the South African economy receive attention, while basic macroeconomic relationships and the measurement of domestic output and national income are discussed. Aggregate demand and supply analysis stands core to this course which is also used to introduce students to the analysis of economic growth, unemployment and inflation. The microeconomics of government is addressed in a separate section, followed by a section on international economics, focusing on international trade, exchange rates and the balance of payments. The economics of developing countries and South Africa in the global economy conclude the course.

## Financial accounting 111 (FRK 111)

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|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Law<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 4 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Accounting |
| **Period of presentation** | Semester 1 |

**Module content**

The nature and function of accounting; the development of accounting; financial position; financial result; the recording process; processing of accounting data; treatment of VAT; elementary income statement and balance sheet; flow of documents; accounting systems; introduction to internal control and internal control measures; bank reconciliations; control accounts; adjustments; financial statements of a sole proprietorship; the accounting framework.

## Financial accounting 122 (FRK 122)

| | |
|---|---|
| **Module credits** | 12.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Law<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | FRK 111 GS or FRK 133, FRK 143 |
| **Contact time** | 4 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Accounting |
| **Period of presentation** | Semester 2 |

**Module content**

Budgeting, payroll accounting, taxation – income tax and an introduction to other types of taxes, credit and the new Credit Act, insurance, accounting for inventories (focus on inventory and the accounting entries, not calculations), interpretation of financial statements.

## Informatics 183 (INF 183)

| | |
|---|---|
| **Module credits** | 3.00 |
| **NQF Level** | 05 |

| | |
|---|---|
| **Prerequisites** | No prerequisites. |
| **Contact time** | 1 practical per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Informatics |
| **Period of presentation** | Year |

**Module content**

Computer processing of accounting information.

## Business management 114 (OBS 114)

| | |
|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | May not be included in the same curriculum as OBS 155 |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Business Management |
| **Period of presentation** | Semester 1 |

**Module content**

The entrepreneurial mind-set; managers and managing; values, attitudes, emotions, and culture: the manager as a person; ethics and social responsibility; decision making; leadership and responsible leadership; effective groups and teams; managing organizational structure and culture inclusive of the different functions of a generic organisation and how they interact (marketing; finance; operations; human resources and general management); contextualising Sustainable Development Goals (SDG) in each of the topics.

## Business management 124 (OBS 124)

| | |
|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | Admission to the examination in OBS 114 |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Business Management |

| | |
|---|---|
| **Period of presentation** | Semester 2 |

**Module content**

Value chain management: functional strategies for competitive advantage; human resource management; managing diverse employees in a multicultural environment; motivation and performance; using advanced information technology to increase performance; production and operations management; financial management; corporate entrepreneurship.

## Statistics 122 (STC 122)

| | |
|---|---|
| **Module credits** | 13.00 |
| **NQF Level** | 05 |
| **Prerequisites** | At least a 60% in STK 110 or an average of 60% for either (1) WST 133, WST 143, WST 153; (2) STK 113, STK 123, STK 121; (3) STK 133, STK 134, STK 121; (4) WST 133, WST 143, STK 121 (An aegrotat exam is available to students who obtained 50%-59%) |
| **Contact time** | 1 practical per week, 1 tutorial per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |
| **Period of presentation** | Semester 2 |

**Module content**

Inferential concepts. Experimental and observational data. Measures of association, uncertainty and goodness of fit. Sampling error and accuracy of estimation. Introduction to linear regression, reduction of variation due to regression. Conditional distributions of residuals.  Simulation based inference: conditional means and prediction intervals. Bivariate data visualisation. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.
*This module is also presented as a summer school for students who initially elected and passed STK 120 with a final mark of at least 60% and then decides to further their studies in statistics as well as for students who achieved a final mark of between 40% - 49% in STC 122 during semester 2.*

## Statistics 110 (STK 110)

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|---|---|
| **Module credits** | 13.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | At least 5 (60-69%) in Mathematics in the Grade 12 examination. Candidates who do not qualify for STK 110 must register for STK 113 and STK 123 |
| **Contact time** | 1 practical per week, 1 tutorial per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |

| | |
|---|---|
| **Period of presentation** | Semester 1 |

**Module content**

Descriptive statistics:
Sampling and the collection of data; frequency distributions and graphical representations. Descriptive measures of location and dispersion.
Probability and inference:
Introductory probability theory and theoretical distributions. Sampling distributions. Estimation theory and hypothesis testing of sampling averages and proportions (one and two-sample cases). Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

## Mathematics 134 (WTW 134)

| | |
|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Veterinary Science |
| **Prerequisites** | 50% for Mathematics in Grade 12 |
| **Contact time** | 1 tutorial per week, 4 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Mathematics and Applied Mathematics |
| **Period of presentation** | Semester 1 |

**Module content**

**Students will not be credited for more than one of the following modules for their degree: WTW 134, WTW 165, WTW 114, WTW 158. WTW 134 does not lead to admission to Mathematics at 200 level and is intended for students who require Mathematics at 100 level only. WTW 134 is offered as WTW 165 in the second semester only to students who have applied in the first semester of the current year for the approximately 65 MBChB, or the 5-6 BChD places becoming available in the second semester and who were therefore enrolled for MGW 112 in the first semester of the current year.*
Functions, derivatives, interpretation of the derivative, rules of differentiation, applications of differentiation, integration, interpretation of the definite integral, applications of integration. Matrices, solutions of systems of equations. All topics are studied in the context of applications.

## Linear algebra 146 (WTW 146)

| | |
|---|---|
| **Module credits** | 8.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Economic and Management Sciences |
| **Prerequisites** | 50% for Mathematics in Grade 12 |

| | |
|---|---|
| **Contact time** | 1 tutorial per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Mathematics and Applied Mathematics |
| **Period of presentation** | Semester 2 |

**Module content**

*Students will not be credited for more than one of the following modules for their degree:
WTW 124, WTW 146 and WTW 164. The module WTW 146 is designed for students who require Mathematics at 100 level only and does not lead to admission to Mathematics at 200 level.

Vector algebra, lines and planes, matrix algebra, solution of systems of equations, determinants. Complex numbers and polynomial equations. All topics are studied in the context of applications.

## Calculus 148 (WTW 148)

| | |
|---|---|
| **Module credits** | 8.00 |
| **NQF Level** | 05 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Economic and Management Sciences |
| **Prerequisites** | WTW 114 GS or WTW 134 GS or WTW 154 GS or WTW 153 GS |
| **Contact time** | 1 tutorial per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Mathematics and Applied Mathematics |
| **Period of presentation** | Semester 2 |

**Module content**

*Students will not be credited for more than one of the following modules for their degree:
WTW 124, WTW 148 and WTW 164. The module WTW 148 is designed for students who require Mathematics at 100 level only and does not lead to admission to Mathematics at 200 level.

Integration techniques. Modelling with differential equations. Functions of several variables, partial derivatives, optimisation. Numerical techniques. All topics are studied in the context of applications.

# Curriculum: Year 2

**Minimum credits: 151**

## Fundamental modules

### Introduction to moral and political philosophy 251 (FIL 251)

| | |
|---|---|
| **Module credits** | 10.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Economic and Management Sciences |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Philosophy |
| **Period of presentation** | Quarter 2, 3 and 4 |

**Module content**

In this module students are equipped with an understanding of the moral issues influencing human agency in economic and political contexts. In particular philosophy equips students with analytical reasoning skills necessary to understand and solve complex moral problems related to economic and political decision making. We demonstrate to students how the most important questions concerning the socio-economic aspects of our lives can be broken down and illuminated through reasoned debate. Examples of themes which may be covered in the module include justice and the common good, a moral consideration of the nature and role of economic markets on society, issues concerning justice and equality, and dilemmas of loyalty. The works of philosophers covered may for instance include that of Aristotle, Locke, Bentham, Mill, Kant, Rawls, Friedman, Nozick, Bernstein, Dworkin, Sandel, Walzer, MacIntyre, Bujo, Wiredu, and Gyekye.

## Core modules

### Business law 210 (BER 210)

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|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Economic and Management Sciences<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | No prerequisites. |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Mercantile Law |
| **Period of presentation** | Semester 1 |

**Module content**

Basic principles of law of contract. Law of sales, credit agreements, lease.

## Business law 220 (BER 220)

| | |
|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Economic and Management Sciences<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | Examination entrance for BER 210 |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Mercantile Law |
| **Period of presentation** | Semester 2 |

**Module content**

Labour law. Aspects of security law. Law of insolvency. Entrepreneurial law; company law, law concerning close corporations. Law of partnerships.

## Economics 214 (EKN 214)

| | |
|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 110 GS & EKN 120 OR EKN 113 GS & EKN 123; & STK 110 GS OR STK 113 & STK 123 & STK 120/121 or concurrently registered for STK 120/121 OR WST 111 & WST121 are prerequisites instead of STK 120/121 or WST 111 and concurrently registered for WST 121. |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 1 |

**Module content**

Macroeconomics
From Wall and Bay Street to Diagonal Street: a thorough understanding of the mechanisms and theories explaining the workings of the economy is essential. Macroeconomic insight is provided on the real market, the money market, two market equilibrium, monetarism, growth theory, cyclical analysis, inflation, Keynesian general equilibrium analysis and fiscal and monetary policy issues.

## Economics 224 (EKN 224)

| | |
|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 110 GS & EKN 120 OR EKN 113 GS & EKN 123; & STK 110 GS OR STK 113 & STK 123 & STK 120/121 or concurrently registered for STK120/121 OR WST 111 & WST121 are prerequisites instead of STK 120/121 or WST 111 and concurrently registered for WST 121. |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 1 |

**Module content**

Microeconomics
Microeconomic insight is provided into: consumer and producer theory, general microeconomic equilibrium, Pareto-optimality and optimality of the price mechanism, welfare economics, market forms and the production structure of South Africa. Statistic and econometric analysis of microeconomic issues.

## Economics 234 (EKN 234)

| | |
|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 214 and STK 120/121 or WST 121 OR concurrently registered for STK 120/121 or WST 121. |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 2 |

**Module content**

Macroeconomics
Application of the principles learned in EKN 214 on the world we live in. We look at international markets and dynamic macroeconomic models, and familiarise the students with the current macroeconomic policy debates. We also take a look at the latest macroeconomic research in the world. The course includes topics of the mathematical and econometric analysis of macroeconomic issues.

## Economics 244 (EKN 244)

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|---|---|
| **Module credits** | 16.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 224 and STK 120/121 or WST 121 OR concurrently registered for STK 120/121 or WST 121. |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 2 |

**Module content**

Microeconomics
From general equilibrium and economic welfare to uncertainty and asymmetric information. In this module we apply the principles learned in EKN 224 on the world around us by looking at the microeconomic principles of labour and capital markets, as well as reasons why the free market system could fail. We touch on the government's role in market failures. The course includes topics of the mathematical and econometric analysis of microeconomic issues.

## Communication management 281 (KOB 281)

| | |
|---|---|
| **Module credits** | 5.00 |
| **NQF Level** | 07 |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Business Management |
| **Period of presentation** | Quarter 1 |

**Module content**

*Module content will be adapted in accordance with the appropriate degree programme. Only one of KOB 281–284 may be taken as a module where necessary for a programme.

Applied business communication skills

Acquiring basic business communication skills will enhance the capabilities of employees, managers and leaders in the business environment. An overview of applied skills on the intrapersonal, dyadic, interpersonal, group (team), organisational, public and mass communication contexts is provided. The practical part of the module (for example, the writing of business reports and presentation skills) concentrates on the performance dimensions of these skills as applied to particular professions.

## Statistics 210 (STK 210)

| | |
|---|---|
| **Module credits** | 20.00 |

| | |
|---|---|
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | STK 110, STC 122 or WST 111, WST 121 |
| **Contact time** | 1 practical per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |
| **Period of presentation** | Semester 1 |

**Module content**

Statistical problem solving. Causality, experimental and observational data. Probability theory. Multivariate random variables. Discrete and continuous probability distributions. Stochastic representations. Measures of association. Expected values and conditional expectation. Simulation techniques. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

## Statistics 220 (STK 220)

| | |
|---|---|
| **Module credits** | 20.00 |
| **NQF Level** | 06 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | STK 210 GS |
| **Contact time** | 1 practical per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |
| **Period of presentation** | Semester 2 |

**Module content**

Multivariate probability distributions. Sampling distributions and the central limit theorem. Frequentist and Bayesian inference. Statistical learning and decision theory. Simulation techniques enhancing statistical thinking. Supervised learning:  linear regression, estimation and inference. Non-parametric modelling. Supporting mathematical concepts. Statistical algorithms. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

# Curriculum: Final year

**Minimum credits: 130**

## Core modules

### Economics 310 (EKN 310)

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|---|---|
| **Module credits** | 20.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 214, EKN 234 or EKN 224, EKN 244 |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 1 |

**Module content**

Public finance
Role of government in the economy. Welfare economics and theory of optimality. Ways of correcting market failures. Government expenditure theories, models and programmes. Government revenue. Models on taxation, effects of taxation on the economy. Assessment of taxation from an optimality and efficiency point of view. South African perspective on public finance.

### Development economics 315 (EKN 315)

| | |
|---|---|
| **Module credits** | 20.00 |
| **NQF Level** | 07 |
| **Prerequisites** | EKN 224 |
| **Contact time** | 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 1 |

**Module content**

Poverty and inequality are among the greatest contemporary challenges of economic development in the World. This course provides an overview of different economic explanations of underdevelopment and policy options to fostering household and individual welfare. We will investigate key development issues such as poverty, inequality, migration, the role of institutions (policy and governance), among others, as they are encountered by developing countries in general and South Africa in particular. During the course, we put special emphasis on the interplay between theory and data.

## Economics 320 (EKN 320)

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|---|---|
| **Module credits** | 20.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Education<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 310 GS |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |
| **Period of presentation** | Semester 2 |

**Module content**

Economic analyses
Identification, collection and interpretation process of relevant economic data; the national accounts (i.e. income and production accounts, the national financial account, the balance of payments and input-output tables); economic growth; inflation; employment, unemployment, wages, productivity and income distribution; business cycles; financial indicators; fiscal indicators; social indicators; international comparisons; relationships between economic time series - regression analysis; long-term future studies and scenario analysis; overall assessment of the South African economy from 1994 onwards.

## Economics 325 (EKN 325)

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|---|---|
| **Module credits** | 20.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | EKN 214, EKN 234 |
| **Contact time** | 1 discussion class per week, 2 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Economics |

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|---|---|
| **Period of presentation** | Semester 2 |

**Module content**

Economic policy and development: Capita select
The course provides an introduction to growth economics and also to some topics on development economics. Firstly, historical evidence is covered and then the canonical Solow growth model and some of its empirical applications (human capital and convergence). Secondly, the new growth theory (the AK and the Romer models of endogenous growth) are covered. Some of the development topics to be covered include technology transfer, social infrastructure and natural resources.

## Statistics 310 (STK 310)

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|---|---|
| **Module credits** | 25.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Humanities<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | STK 210, STK 220 |
| **Contact time** | 1 practical per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |
| **Period of presentation** | Semester 1 |

**Module content**

Supervised learning.  Linear and non-linear regression. Ordinary least squares and maximum likelihood estimation. Violations of the assumptions, residual analysis. Cross validation. Statistical inference. Bootstrap inference. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.

## Statistics 320 (STK 320)

| | |
|---|---|
| **Module credits** | 25.00 |
| **NQF Level** | 07 |
| **Service modules** | Faculty of Engineering, Built Environment and Information Technology<br>Faculty of Economic and Management Sciences<br>Faculty of Natural and Agricultural Sciences |
| **Prerequisites** | STK 210, STK 220 or WST 211, WST 221 |
| **Contact time** | 1 practical per week, 3 lectures per week |
| **Language of tuition** | Module is presented in English |
| **Department** | Statistics |
| **Period of presentation** | Semester 2 |

**Module content**
Stationary and non-stationary univariate time series. Properties of ARIMA processes. Identification, estimation and diagnostic testing of a time series models. Forecasting. Multivariate time series. Supervised learning: introduction to generalised linear models.  Modelling of binary response variables, logistic regression. Supporting mathematical concepts. Statistical concepts are demonstrated and interpreted through practical coding and simulation within a data science framework.