

• **FACULTY OF ECONOMIC AND MANAGEMENT SCIENCES**

# **DEPARTEMENT LOGISTIEK DEPARTMENT OF LOGISTICS ISEBE LEELOJISTIKI**



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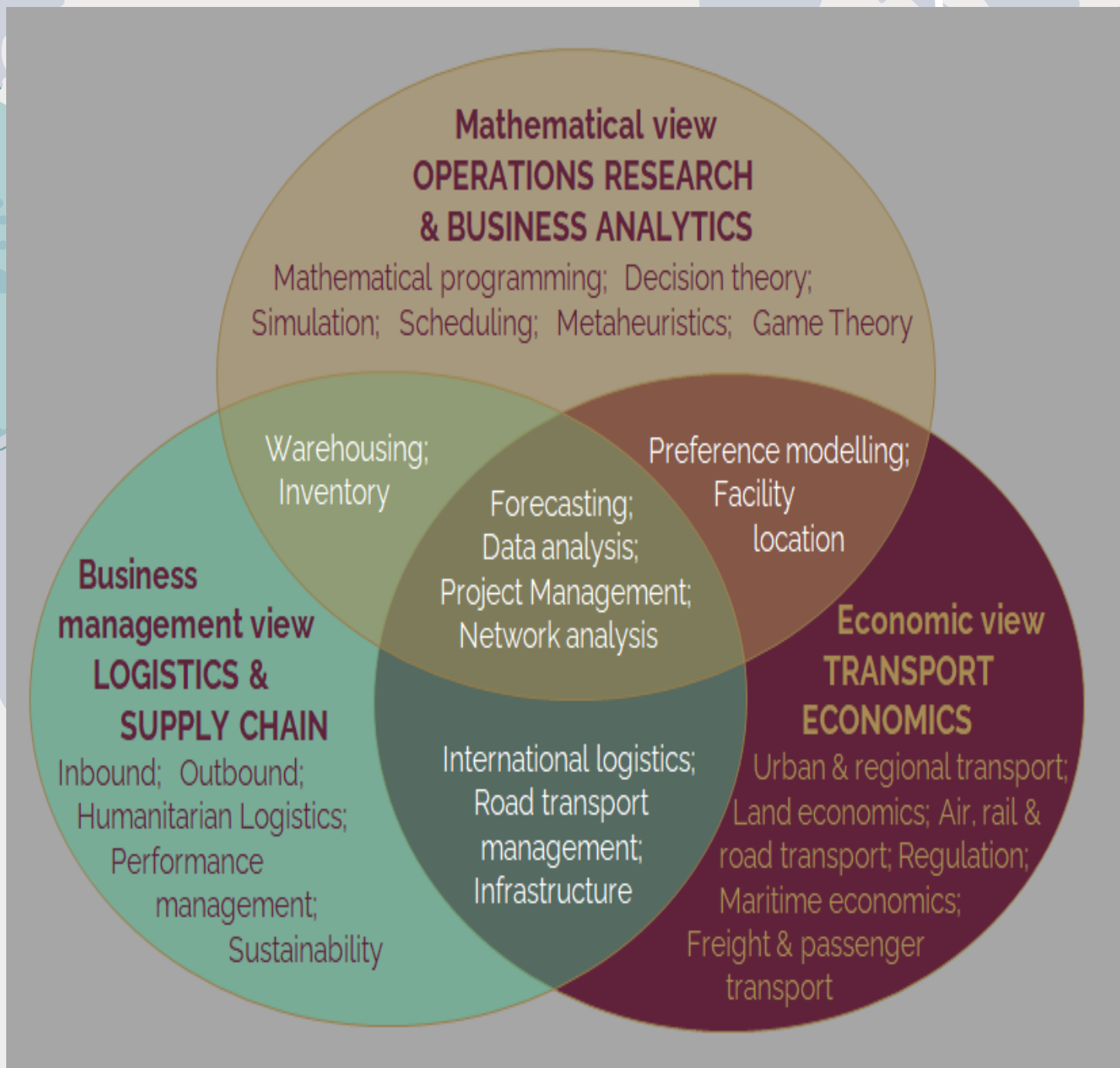
**Van Der Sterr Building, Bosman Street, Stellenbosch**



**Stellenbosch**

UNIVERSITY  
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UNIVERSITEIT

forward together  
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## **FOCUS AREAS**

## **FUNCTIONAL COMPLEMENT**

# Overview

# DEPARTMENT OF LOGISTICS

FACULTY ECONOMICS AND MANAGEMENT SCIENCES

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M

## Transport Economics (Economic Sciences)



The allocation of transport resources in order to meet the needs of society

## Vervoereconomie (Ekonomiese Wetenskappe)

Die toewysing van vervoerbronne om aan die behoeftes van die samelewing te voorsien

## Logistics & SCM (Management Sciences)

Making sure that products and services are available when and where needed

## Logistieke & VKB (Bestuurswetenskappe)



Verseker dat produkte en dienste beskikbaar is wanneer en waar benodig

## Business Analytics (Management Sciences)



Leveraging business data to obtain valuable insights that inform decision-making

## Besigheidsanalities (Bestuurswetenskappe)

Die gebruik van besigheidsdata om waardevolle insigte te verkry wat besluitneming inlig

## Operations Research (Mathematical Sciences)



Applying mathematical optimisation techniques to complex real-world problems

## Operasionele Navorsing (Wiskundige Wetenskappe)

Die toepassing van wiskundige optimerings-tegnieke op komplekse werklike probleme

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S  
C



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Stellenbosch



Stellenbosch

STUDY IN THE FIELD OF

# TRANSPORT ECONOMICS

A FOCAL AREA WITHIN BCOM (ECONOMIC SCIENCES)

## INTERESTED IN TRANSPORT?

- Interested in how people and goods move from point A to point B?
- Wondering how airlines determine the price of your airline ticket?
- Have you ever thought why there is never parking in Stellenbosch?
- Wondering how Takealot can deliver your online purchase the same day?
- Will you need a driver's license in 10 years' time due to self-driving cars?
- Wondering about the journey your "out-of-season" avo went through to get to South Africa?



## MODULES



1

YEAR

Introduction to Transport and Logistics Systems 144 (12)

2

YEAR

Transport Economics 214 (16): *Prerequisite modules: Economics 114 & 144*  
Transport Economics 244 (16): *Prerequisite modules: Transport Economics 214, Economics 114 & 144*

3

YEAR

Transport Economics 318 (24): *Prerequisite pass modules: Economics 114 & 144, Transport Economics 214 & 244*  
Transport Economics 348 (24): *Prerequisite pass modules: Economics 114 & 144, Transport Economics 244*

## POSTGRADUATE OPPORTUNITIES

There is a choice of three **BCom Honours** focus areas:

1. Pure Transport Economics focus (Applied transport economics and theory)
2. Transport and Logistics focus (Combining transport and logistics modules)
3. Transport Management and Modes (for those interest in the various modes including road, rail, shipping, air, urban and new technology)

**MCom Transport Economics** at Stellenbosch University OR joint Masters between Stellenbosch and Antwerp University or Rotterdam University, Netherlands



## CAREER OPPORTUNITIES

Job opportunities available as a **transport economist**, **transport/urban planner**, **business owner** or **entrepreneur** in industries such as consulting, governmental, banking and research institutions as economists or planners

POTENTIAL  
EMPLOYERS:



TALK TO US

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FOR MORE INFORMATION:

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information on this field



STUDY IN THE FIELD OF

# LOGISTICS AND SUPPLY CHAIN MANAGEMENT

A FOCAL AREA WITHIN BCOM (MANAGEMENT SCIENCES)

## LOGISTICS AND SUPPLY CHAIN MANAGEMENT IS ABOUT

- Getting a product to the shelf or salesroom when you want to buy it;
- Making sure that the necessary materials are available when a service has to be provided;
- Sourcing the raw materials required to manufacture a product from local and international suppliers
- Transporting and warehousing the product throughout the world;
- Planning and ensuring that all of this happens in a way that makes the customers happy and generates a profit for the business providing the product or service.



## MODULES

1

YEAR

Introduction to Transport and Logistics Systems 144 (12)

2

YEAR

Logistics and Supply Chain Management 214 (16): *Prerequisite module: Business Management 113*

Logistics and Supply Chain Management 244 (16): *Prerequisite pass modules: Business Management 113, Logistics and Supply Chain Management 214*

3

YEAR

Logistics and Supply Chain Management 314 (12) & 324 (12): *Prerequisite modules: Economics 114, 144*

Logistics and Supply Chain Management 344 (12) & 354: *Prerequisite modules: Logistics and Supply Chain Management 314, 324*



## POSTGRADUATE OPPORTUNITIES

The **BComHons** degree will provide an opportunity to:

- deepen knowledge in the field of Logistics and Supply Chain Management;
- apply theoretical learning to business case projects with real companies; and
- prepare yourself for the workplace through the development of soft skills such as presentation skills, report writing, problem solving skills and career management.

The **MCom** degree is research-oriented and entails the completion of a thesis under the guidance of a lecturer. Projects are mostly undertaken in a business environment. Opportunities exist for exchange with various overseas universities, mainly situated in Europe.



## CAREER OPPORTUNITIES

Positions held by past students include **sourcing analyst, export coordinator, demand planner, contract manager, supply and logistics manager, project operations manager** and **operations director**.

Industries where former students are employed encompasses transport and logistics, retail (traditional and online), FMCG, IT & software, pharmaceutical, beverage, agriculture, automotive, mining, professional services and humanitarian aid, such as business intelligence, advanced analytics, consulting, retail, banking, research and many more!



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# BUSINESS ANALYTICS

A FOCAL AREA WITHIN BCOM (MANAGEMENT SCIENCES)

## BUSINESS ANALYSTS ARE ABLE TO

- Apply data analytics skills to function at highly competitive levels;
- Make decisions based on data-driven evidence;
- Analyse and manage business functions and processes;
- Gain insights from data analysis that inform decision-making using decision and mathematical modelling tools;
- Present data and information using visualisation techniques and software.



## MODULES

2

YEAR

**Business Analytics 214 (16) & 244 (16):**

*Prerequisite modules: Probability theory and Statistics 114 or 144, or Statistics and Data Science 188*

3

YEAR

**Business Analytics 318 (24) & 348 (24):**

*Prerequisite modules: Probability theory and Statistics 114 or 144, or Statistics and Data Science 188*

## OPPORTUNITIES FOR FURTHER LEARNING

There is no postgraduate programme offered for Business Analytics.

- Students may elect to study further in one of their other mayor subjects.
- Students who obtain 80% and above in Business Analytics modules may apply to *bridge from Business Analytics into an Operations Research* stream by way of online bridging courses and exams in mathematics and relevant OR techniques. Operations researchers use analytics and optimisation techniques to make a difference in the world by applying maths to complex problems to find meaningful, data-driven insights and improvements.



## CAREER OPPORTUNITIES

Job opportunities available as a **consultant, analyst, data scientist** or **researcher** in industries such as business intelligence, advanced analytics, consulting, retail, banking, research and many more!

POTENTIAL  
EMPLOYERS:

TRUWORTHS

PEPKOR  
Holdings Limited

XFranda  
DATA ANALYTICS

takealot.com

CAPITEC  
BANK

MEDICLINIC

SHOPRITE

OpSi  
SYSTEMS

RAND  
MERCHANT  
BANK  
A Division of FirstRand Bank Limited

business modelling  
ASSOCIATES



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STUDY IN THE FIELD OF

# OPERATIONS RESEARCH

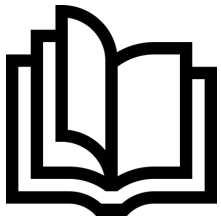
A FOCAL AREA WITHIN EITHER BCOM OR BSC (MATHEMATICAL SCIENCES)

## INTERESTED IN GOOD DECISION MAKING?

- Enjoy Mathematics, but are looking for practical applications thereof?
- Ever wondered, while standing in a long queue, if there isn't a better way?
- Mulling over the possibility of improving inventory management to reduce wastage?
- Puzzled by what an optimal schedule for Super Rugby would look like?
- Frequently asking yourself how you could improve aspects of a business or process?
- Pondering about the best business strategy given a competitive market?
- Interested in finding ways to minimise cost while maintaining a satisfactory level of service?



## MODULES



2

YEAR

**Operations Research 214 (16):** Prerequisite modules: Mathematics 114 & 144

**Operations Research 244 (16):** Prerequisite modules: Mathematics 114, and Prerequisite pass modules: Mathematics 144

3

YEAR

**Operations Research 314 (16):** Prerequisite modules: Operations Research 244

**Operations Research 322 (16):** Prerequisite pass modules: Probability Theory and Statistics 114 or 144

**Operations Research 344 (16):** Prerequisite modules: Operations Research 244

**Operations Research 352 (16):** Prerequisite modules: Mathematics 114 & 144

## POSTGRADUATE OPPORTUNITIES

There is a choice of **BCom** or **BSc** with the opportunity to pursue **BComHons** or **BScHons**:

1. **BCom**: will typically take economics and business management and additional subjects for a scientific business career
2. **BSc**: will typically take computer science and physics as additional subjects for a scientific research and development career

**MCom & MSc Operations Research** at Stellenbosch University is available as either a full thesis or as both thesis and coursework



## CAREER OPPORTUNITIES

Job opportunities available as a **consultant**, **data scientist**, **analyst** or **researcher** in industries such as business intelligence, advanced analytics, consulting, retail, banking, research, to name a few!

praelexis

CAPITEC  
BANK

DataRobot

PEPKOR  
Holdings Limited

takealot.com

momentum  
health

business modelling  
ASSOCIATES

sasol



SHOPRITE



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## EMS Yearbook:

To get detail information on all Economic and Management Sciences programmes, regarding prerequisites and course content download the PDF at [www.sun.ac.za/yearbook](http://www.sun.ac.za/yearbook)

## How to apply:

Download the clickable PDF **here** (laptop/desktop version).

Or you can scan this QR code with your phone or tablet:



Notes:

## IMPORTANT CONTACT DETAILS

### Faculty Administrator

For registration-related enquiries  
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[www.sun.ac.za/english/management/registrar/  
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### Student Affairs Officer

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### Client Service Centre

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