

A photograph of the Van der Sterr Building at Stellenbosch University, featuring classical columns and a pediment with the building's name. The image is partially obscured by a diagonal white and green graphic overlay.

DEPARTMENT OF LOGISTICS

**FACULTY OF ECONOMIC AND
MANAGEMENT SCIENCES**



+27 21 808 2249



www.sun.ac.za/english/faculty/economy/logistics



Van Der Sterr Building, Bosman Street, Stellenbosch



mmt@sun.ac.za



UNIVERSITEIT
iYUNIVESITHI
STELLENBOSCH
UNIVERSITY

100
1918 - 2018

Study in the field of TRANSPORT ECONOMICS

Interested in TRANSPORT?



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

Study Undergraduate BCom (Economic Science) Focal area: Transport Economics

1 Year

Introduction to Transport Economics and Logistics Systems 144:

Introduction to the unique purpose of the transport system and the economic significance thereof.

Transport Economics 214 & 244

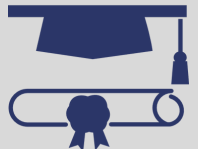
To understand the role and function of transport as well as the economic, physical and service characteristics of different transport modes (rail, road, sea, air, pipeline etc.) Introduction to land and urban economics. *Complimentary subjects: Economics 214 & 244, Logistics Management 214 & 244, Quantitative Management 214 & 244*

2 Year

Transport Economics 318 & 348

Techniques to determine the economic and financial feasibility of transport projects. Modal cost and market structures for maritime, rail, air and pipeline economics. Focus on international trade and logistics. *Complimentary subjects: Economics 318 & 348, Logistics Management 314, 324, 344 & 354, Quantitative Management 318 & 348, Project Management 314*

3 Year



Focus Postgraduate degrees: BComHons & MCom Transport Economics

International Opportunities

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 interested 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 Transport Economist, Transport / Urban Planner, Business owner / Entrepreneur

Consultant (Economist / Planner): Civil Engineering firms, accounting firms (special projects), maritime and air companies, private consultant (self-employed)

Government / Banks (Economist / Planner): Department of Transport, Municipalities, World Bank, Development Bank of SA

Researcher / Lecturer: Universities (Local / abroad), CSIR

Other exciting alternative industries:

- Online Retail (Amazon / Takealot) • Self-driving cars & electric vehicles (Uber / Google / Tesla)
- Uber (Planning and scheduling of on-demand transport services) • New transport modes and technologies (Drones / Hyperloop)

Potential employers



THE WORLD BANK



Talk to us

EMAIL:

Ms Jacomien van der Merwe
jacomienvdm@sun.ac.za

WEB:

Department of Logistics
www.sun.ac.za/english/faculty/economy/logistics/

Study in the field of LOGISTICS MANAGEMENT

LOGISTICS 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.

Study

Undergraduate – BCom (Management Sciences)
Focal area: Logistics Management

1 Year

Introduction to Transport Economics and Logistics Systems 144

Introduction to the unique purpose of the transport system and the economic significance thereof.

Logistics Management 214 & 244

The main functional areas of Logistics Management are covered, including Demand Management, Order Management & Customer Service, Inventory in the Supply Chain, Supply Management, Sourcing & Procurement, and Transport & Distribution. *Complimentary subjects: Quantitative Management 214 & 244, Transport Economics 214 & 244, Financial or Marketing Management 214 & 244*

2 Year

Logistics Management 314, 324, 344 & 354

The focus shifts to the more integrative elements of supply chain management (including Supply Chain Strategy, Network Analysis & Design, Performance Measurement, and Supply Chain Technology), as well as Logistics Analysis and Logistics Research. *Complimentary subjects: Project Management 314, Transport Economics or Marketing Management*

3 Year



Focus

Postgraduate degrees:
BComHons & MCom (Logistics Management)

International Opportunities

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

- deepen knowledge in the field of Logistics 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 orientated 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

Business Analyst, Consultant, Logistics /
Transport / Supply Chain Manager

Positions held by some of our former students: Sourcing Analyst, Export Coordinator, Demand Planner, Contract Manager, Supply & Logistics Manager, Project Operations Manager, Operations Director

Industries in which our former students have been employed: Transport & Logistics, Retail (traditional and online), FMCG, IT & Software, Pharmaceutical, Beverage, Agriculture, Automotive, Mining, Professional Services, Humanitarian Aid

Potential employers



DISTELL

SHOPRITE



unicef



P&G

aramex

Imperial
logistics

takealot.com



Talk to us

EMAIL:

Ms Ulrike Kussing
uk@sun.ac.za

WEB:

Department of Logistics
www.sun.ac.za/english/faculty/economy/logistics/

Study in the field of OPERATIONS RESEARCH

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?
- Wondering if food waste can't be reduced by changing inventory levels?
- Thinking about an optimal schedule for Super Rugby?
- Wondering how you could improve aspects of a business by looking at the data and numbers?
- Thinking about the best composition of your investment portfolio?

Study

Undergraduate BCom (Mathematical Science) or BSc (Mathematical Science), Focal area: Operations Research

Operations Research 214 & 244

Techniques to optimise decisions in networks, for example the shortest route through a road network, the number of flights on each route for an airline (network flow), the design of a water pipe infrastructure for a new suburb. Mathematical modelling of systems via linear programming for better decision making.

Complimentary subjects: Mathematics 214 & 244, Mathematical Statistics 214, 245 & 246, Computer Science 214 & 244, or Applied Mathematics 214 & 244 (if BSc)

Operations Research 314, 326, 344 & 354

Mathematical modelling of the more complex integer type systems, for example optimal scheduling of sport tournaments, or nonlinear type systems, for example finding optimal investment portfolios, as well as preference modelling. Some additional techniques such as decision analysis for improved decision making, inventory control to determine the right amount and types of inventory a retailer should keep to maximise their sales, forecasting to help management better prepare for what might happen, queuing theory to improve long waiting times in queues, etc.

Complimentary subjects: Financial Mathematics 378, Mathematical Statistics 312, 316, 344, 354 & 364, Computer Science 314, 315, 334, 344, 354 or 364, Project Management 314, or Applied Mathematics 314, 324, 354 & 364

Focus

Postgraduate degrees: **BComHons** & **MCom** Operations Research / **BSc Hons** & **MSc** Operations Research

The Science
of Better

Choice between BCom and BSc:

1. **BCom**: will typically take economics and business management as 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.

Career

Consultant, analyst, researcher

Business intelligence, consulting, advanced analytics: Business Modelling Associates, McKinsey & Company, PBT Group, OpSI, Pivot Sciences, Xtranda, Spatial Edge.

Retail: Takealot, PEP, Shoprite, Pick a Pay

Banks: Capitec Bank, Rand Merchant Bank, First National Bank, Commonwealth Bank

Researcher / lecturer: Universities (local / abroad), CSIR

Other exciting alternative industries: PIC Solutions, WiGroup, Broadreach, Sasol, RCS Group, DXC Technology, f(x) Software Development

Potential employers



Talk to us

EMAIL:
Prof. Stephan Visagie
svisagie@sun.ac.za

WEB:
Department of Logistics
www.sun.ac.za/english/faculty/economy/logistics/