# University of Stellenbosch Department of Economics Post-graduate Program in Financial Economics

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## FINANCIAL ECONOMICS

### Aims and Learning Objectives

All information, class notes and additional reading materials can be found here:

https://www.fecos.nfkatzke.com/

The course is designed to provide students with an overview of the financial system, describing the players, assets and dynamics that adds to its unique composition. At first, the course will teach the students some of the fundamental concepts and theories that were at the core of the financial economic field's development. It addresses key principles that guide the allocation of resources over time. It provides a theoretic motivation for the use of financial instruments and techniques used today, such as the widely used asset pricing models.

Thereafter we will touch on broader market- and instrument definitions, and discuss how certain assets can be manipulated and used to achieve a range of investment objectives. Topical issues will be addressed and the course duly adjusted to tackle pressing questions relevant during the month and week leading up to the class. Students will be motivated to keep abreast of financial issues that present itself during the course.

While this course will support a career in finance, it is primarily designed to prepare you for further study and research on topics in this area. In particular, the course is designed to add insight to the field of finance to economists, not financial professionals. We will be covering a broad range of topics so as to familiarize the student to what is regarded as common knowledge to practitioners, as well as more advanced topics. Although no formal background in finance is required, a keen (and hopefully growing) interest in financial matters and a critical eye on investment intermediation, financial market integration and asset allocation is required.

The prescribed textbook will be Understanding South African Financial Markets, although for the first few sessions we will be working from Jones' Financial economics to cover some of the theoretical aspects relevant to the field. Students need not purchase the latter textbook (as it is on reserve in the library if you are interested in viewing it), but are expected to purchase the textbook by Van Wyk, et al. Although we do not intend on following its structure and content exactly, this book will serve as a useful guideline and reference point to the student-become-practitioner in the future.

For all practical purposes the slides and specified reference points in the textbook should be a good indication of what to expect in the exam for theory, while issues addressed in class (and provided in articles) can be examined as well.

## AI in writing: Please note

You can only hone your writing skills if you learn from mistakes from honest and transparent writing attempts. While the use of Artificial Intelligence (AI) tools to improve your writing is allowed, it cannot be used for substantive or creative parts of the work you submit, as this is both dishonest and does not help you learn the core skills required in a professional career in the modern economy. You are required to familiarise yourself with the guidelines provided on the appropriate and allowable use of these tools, and you will be required to make declarations on whether and how you have used these tools before you will be allowed to submit an essay(s) in this module.

## Teaching methodology and evaluation

This course will be taught through a series of two-hour lectures. I will also arrange for speakers from the industry to speak to you about contemporary financial matters. Please make every effort to attend these sessions.

#### The course will be evaluated as follows:

- One essay (40%). More detail will be given when the term starts around the topics (preference is for topical themes), with the hand-in date on the 18<sup>th</sup> of October.
- Final exam (3 hrs) (60%) date to be confirmed.

#### **Tutorials**

Prepared excel files with various quantitative calculations will be made available to students during the course.

## Readings

Prescribed textbook:

1. Van Wyk, K., et al. 2018. Understanding South African Financial Markets. Van Schaik Publishers

Other recommended reference texts:

- 1. Jones, C. 2008. Financial Economics. *Routledge*. (Available on reserve in the Library)
- 2. Du Toit, et al. Corporate Finance: A South African Perspective.

#### Journal Articles:

Articles will be made available through the duration of the course. These will be used mainly to keep students abreast of topical issues that arise during the progression of the course. Links to articles and pages on popular investment websites will be made available (such as on Bloomberg, Citiwire, Business Day, FA News, etc.).

The list below is a broad outline of what follows – while we will discuss topical themes as the semester progresses. The readings and / or topics can change slightly due to topical themes emerging through the semester– this will be communicated to students in due time.

# Session outlines and related readings

| Class | Topic  | Readings                                      |
|-------|--|---|
| 1     | Introduction to the field of financial economics.    | Van Wyk, et al. 2012.                         |
|       | Pricing assets intertemporally                       | Chapter1                                      |
| 2     | Classic finance theory.                              | Jones, C. 2008.                               |
|       | Deriving Asset pricing models.                       |   |
| 3     | Deriving Asset pricing models (contd).               | Jones, C. 2008.                               |
| 4     | Portfolio Theory                                     | Various sources.                              |
|       | -How to define portfolio performance                 |   |
|       | -How to define portolio risk                         |   |
|       | -Other technical analyses considered.                |   |
| 5     | Discussion of the main asset classes: Bonds          | Van Wyk, et al.                               |
|       | -Bond instruments                                    | Other sources too.                            |
|       | -Theory and calculations                             |   |
|       | -What information do bonds provide economists        |   |
| 6     | Discussion of the main asset classes: Equities       | Van Wyk, et al.                               |
|       | -How are shares created and traded                   | Other sources too.                            |
|       | - What information is important to economists.       |   |
| 7     | <u>Derivatives</u>                                   | Demystifying Derivatives.                     |
|       | - We discuss the various types and their uses.       | Source will be put on reserve in the library. |
|       | -Financial weapons of mass destruction or beneficial | J.  |
|       | to investors seeking to hedge their risks?           |   |
| 8     | Thinking critically about investment outcomes.       | Various sources                               |
|       | -Why do we invest?                                   |   |

|   | -How do we invest?  |                 |
|---|---|-----------------|
|   | -Where do we invest?  |                 |
|   | -Passive / active pursuit of profit?                                  |                 |
| 9 | Technical & regulatory investment concepts                            | Various Sources |
|   | - Contemporaneous considerations for investment                       |                 |
|   | Intermediaries  |                 |
|   | - CIS industry in South Africa  |                 |
|   | - Automated Investment Alternatives (Smart<br>Beta)                   |                 |
|   | - CISCA and other regulations (twin peak model to regulations in SA). |                 |

## **Important Dates:**

Hand-in of Essay: 18 October 2024

**Examination Date: To be Confirmed** 

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