

- Faculté des sciences économiques
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Principles of Finance (5EN1010)

Filières concernées	Nombre d'heures	Validation	Crédits ECTS
Bachelor en mathématiques	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6
Bachelor en sciences économiques	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6
Bachelor of Science en économie et sport	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6
Bachelor of Science en management et sport	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6
Pilier principal B A - économie	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6
Pilier principal B A - management	Cours: 2 ph TP: 2 ph	Voir ci-dessous	6

ph=période hebdomadaire, pg=période globale, j=jour, dj=demi-jour, h=heure, min=minute

Période d'enseignement:

- Semestre Printemps

Equipe enseignante

Professor Tim Kroencke
Institute of Financial Analysis
Rue A.-L. Breguet 2
2000 Neuchâtel
Tel. +41 32 718 1385, Email: tim.kroencke@unine.ch

Louis Mangeney, teaching assistant, PhD candidate
Institute of Financial Analysis
Rue A.-L. Breguet 2
2000 Neuchâtel
Tel. +41 32 718 1333, Email: louis.mangeney@unine.ch

Contenu

This course introduces students to the core concepts of modern finance. We start with an overview of what financial markets and financial institutions are. We then study the fundamental principles of finance. Students will learn how to value bonds and equities, the benefits from diversification, how to construct optimal portfolios, how to determine risk premia, the concept of market efficiency, the investment behaviour of individual investors and common investment strategies employed by professionals (e.g., mutual funds, hedge funds, pension funds).

Tentative Course Outline:

- * Financial Markets and Institutions
- * Financial Decision Making and the Law of one Price
- * The Time Value of Money
- * Interest Rates
- * Valuing Bonds
- * Valuing Stocks
- * Capital Markets and the Price of Risk
- * Optimal Portfolio
- * The Capital Asset Pricing Model (CAPM)
- * Implementing the CAPM
- * Investor Behavior

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Forme de l'évaluation

Final exam: 120-minutes written exam (100%) during the exam session.

Retake exam: 120-minutes written exam (100%) during the exam session.

Allowed tools: A simple calculator is permitted and a cheat sheet (one page DIN-A4, back and front, handwritten, NOT printed). Other documents or connected devices are permitted during the exams. In case of violation of these rules, the students are in situation of fraud and the unauthorized items will be removed. The exam could be deemed as failed.

Documentation

Berk, J., and P. DeMarzo (2017): Corporate Finance, Fourth Edition (Global Edition). (BDM)

A French translation is available:

Berk, J., and P. DeMarzo (2017): Finance d'entreprise, 4e édition, édition françaises par Gunther Cappelle-Blancard et Nicolas Coderc.

The third and the fifth edition of the book also work!

Pré-requis

Recommended: Statistique descriptive, Mathématiques appliquées 1 & 2.

Forme de l'enseignement

Two hours lecture

Two hours exercise

Objectifs d'apprentissage

Au terme de la formation l'étudiant-e doit être capable de :

- Describe important financial markets and the role of institutions
- Explain the concept of the Law of One Price as a unifying principle of valuation in finance
- Measure the expected return of a financial asset
- Measure the expected return of a financial asset
- Review the behaviour of investors in financial markets
- Measure the expected return of a financial asset
- Review the behaviour of investors in financial markets

Compétences transférables

- Apply knowledge to new situations
- Generate new ideas (creativity)
- Carry out a critical analysis