

- Faculté des sciences économiques
- [www.unine.ch/seco](http://www.unine.ch/seco)

### Principles of Finance (5EN1010)

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

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#### 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 behavior 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 Portfolios
- \* The Capital Asset Pricing Model (CAPM)
- \* Implementing the CAPM
- \* Investor Behavior

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## **Principles of Finance (5EN1010)**

### **Forme de l'évaluation**

Final exam: 2-hour written exam (100%) during the exam session at the end of the semester.

Allowed tools: simple calculator, cheat sheet (one page DIN-A4, back and front, handwritten NOT printed).

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.

### **Modalités de rattrapage**

Re-take exam: 2-hour written exam (100%) during the exam session.

Allowed tools: simple calculator, cheat sheet (one page DIN-A4, back and front, handwritten NOT printed).

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**

- Corporate Finance, by Berk and DeMarzo, 4th or 5th Edition, Pearson
- Finance d'entreprise, de Berk, DeMarzo, Cappelletti-Blancard et Coderc, 4e ou 5e édition, Pearson (édition française)

### **Pré-requis**

Previous Bachelor course(s)

### **Forme de l'enseignement**

Lectures: 2 hours per week

Exercices: 2 hours per week

### **Objectifs d'apprentissage**

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

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

### **Compétences transférables**

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