

5.0 crédits

30.0 h

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| Enseignants: | Scaillet Olivier ; |
| Langue d'enseignement: | Anglais |
| Lieu du cours | Louvain-la-Neuve |
| Thèmes abordés : | We will start to investigate the basic concepts in a simple binomial model in discrete time before generalizing them to general dynamic markets in discrete time. Before extending the concepts to continuous time, we will introduce the main mathematical tools of stochastic calculus. We will analyze applications to pricing of options on stocks and on interest rates via change of numeraire techniques. |
| Acquis d'apprentissage | The student will be able to master financial concepts related to modern asset pricing theory by arbitrage. This will allow him to get the knowledge necessary to evaluate most prices of financial derivatives on stock and in-terest rates. <i>La contribution de cette UE au développement et à la maîtrise des compétences et acquis du (des) programme(s) est accessible à la fin de cette fiche, dans la partie « Programmes/formations proposant cette unité d'enseignement (UE) ».</i> |
| Contenu : | We will present the main theoretical concepts and apply them in exercises to help for a better understanding. |
| Autres infos : | The students should have basic knowledge in probability and statistics, mathematics, and finance. The evaluation will be an oral exam. The support is made of slides and exercises with their correc-tions. |
| Cycle et année d'étude: : | > Master [120] en sciences économiques, orientation générale > Master [60] en sciences économiques, orientation générale > Master [120] en sciences économiques, orientation économétrie |
| Faculté ou entité en charge: | ECON |