



5.00 crédits	30.0 h	Q2
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Enseignants	Vannetelbosch Vincent ;
Langue d'enseignement	Anglais
Lieu du cours	Louvain-la-Neuve
Thèmes abordés	Game theory is a bag of analytical tools designed to help us to understand the phenomena that we observe when decision makers interact.
Acquis d'apprentissage	
Modes d'évaluation des acquis des étudiants	Homework (50%) + Presentation of a research article (50%)
Méthodes d'enseignement	The course consists of lectures. The topics will be introduced during the lectures. Compulsory homeworks will be assigned to students. Reading assignments are also possible.
Contenu	<p><b>Topics in Game Theory</b></p> <p><b>Part A Network Science and Economics</b></p> <ul style="list-style-type: none"> <li>• Representing, Measuring and Analyzing Networks</li> <li>• Learning and Diffusion on Networks</li> <li>• Games and Behavior on Networks</li> <li>• Game-Theoretic Modeling of Network Formation</li> </ul> <p><b>Part B Market Design and Matching</b></p> <ul style="list-style-type: none"> <li>• The Basic Matching Model</li> <li>• The Medical Match</li> <li>• Assignment Markets</li> <li>• School Allocation</li> <li>• Course Allocation</li> <li>• Kidney Exchange</li> </ul>
Ressources en ligne	Slides, homeworks, exercises, compulsory readings will be available on the course webpage on Moodle UCL ( <a href="http://moodleucl.uclouvain.be/">http://moodleucl.uclouvain.be/</a> ).
Bibliographie	<ul style="list-style-type: none"> <li>• Social and economic networks by Matthew O. Jackson, Princeton University Press (2008).</li> <li>• Connections by Sanjeev Goyal, Princeton University Press (2007).</li> <li>• Network science by Albert-Laszlo Barabasi, Cambridge University Press (2016).</li> <li>• The Oxford handbook of the economics of networks edited by Yann Bramoullé, Andrea Galeotti and Brian W. Rogers, Oxford University Press (2016).</li> <li>• Market design: auctions and matching, by Guillaume Haeringer, MIT Press (2018).</li> </ul>
Faculté ou entité en charge:	ECON

<b>Programmes / formations proposant cette unité d'enseignement (UE)</b>				
Intitulé du programme	Sigle	Crédits	Prérequis	Acquis d'apprentissage
Master [60] en sciences économiques, orientation générale	ECON2M1	5		
Master [120] en sciences économiques, orientation économétrie	ETRI2M	5		
Master [120] en sciences économiques, orientation générale	ECON2M	5		