

## Course Descriptions Exchange 2018-2019

Course Title Social Choice Theory  
 Course Code EBC4005  
 ECTS Credits 6,5  
 Assessment None

| Period | Start      | End        | Mon | Tue | Wed | Thu | Fri |
|--------|------------|------------|-----|-----|-----|-----|-----|
| 2      | 29-10-2018 | 21-12-2018 | X   |     | X   |     |     |

Level Intermediate  
 Coordinator Ton Storcken For more information:t.storcken@maastrichtuniversity.nl  
 Language of instruction English  
 Goals In this course the student will learn to formally analyse collective decision rules w.r.t. various aspects such as anonymity, Pareto-optimality, neutrality, and strategy-proofness.

Description In collective decision-making (e.g., elections) the rules and procedures used to arrive at a decision may have a considerable impact on the final result. Different rules may lead to different decisions. In this course such rules are studied. In particular, desirable properties like Pareto-optimality and non-manipulability are investigated.  
 Some topics are:  
 - voting schemes for two alternatives, theorem of May;  
 - voting schemes for more than two alternatives, score rules, veto rules;  
 - Condorcet winners, dictatorial rules, anonymity, neutrality, positive association, impossibility theorems of Arrow, Gibbard and Satterthwaite;  
 - location problems;  
 - strategy-proof division;  
 - implementation.

Literature Lecture notes.  
 Prerequisites A mathematic level comparable to a BSc Econometrics & Operations Research meets the prerequisites. Exchange students need to have obtained a Bachelor degree and an advanced level in mathematics. An advanced level of English.

Teaching methods PBL / Lecture  
 Assessment methods Written Exam  
 Evaluation in previous academic year For the complete evaluation of this course please click <http://iwio-sbe.maastrichtuniversity.nl/rapporten.asp?referrer=codeUM>

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|---|---|---------------------------------|
| This course belongs to the following programme / specialisation | Master Econometrics and Operations Research           | Econometrics & OR Electives     |
|   | Master Econometrics and Operations Research           | Mathematical Economics          |
|   | Master Economic and Financial Research - Econometrics | Electives                       |
|   | Master Economic and Financial Research - Econometrics | Track Econometrics Core Courses |
|   | Master Economic and Financial Research                | Electives                       |
|   | SBE Exchange Master                                   | Master Exchange Courses         |
|   | SBE Non Degree Courses                                | Master Courses                  |