

## Course Descriptions NonDegree 2019-2020

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

Period	Period	Start	End	Mon	Tue	Wed	Thu	Fri
2	28-10-2019	20-12-2019	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>

This course belongs to the following programme / specialisation

Master Econometrics and Operations Research - Econometrics	Elective Course(s)
Master Econometrics and Operations Research - Mathematical Economics	Compulsory Course(s)
Master Econometrics and Operations Research - No specialisation	Elective Course(s)
Master Econometrics and Operations Research - Operations Research	Elective Course(s)
Master Economic and Financial Research - Econometrics	Year 1 Core Course(s)
Master Economic and Financial Research - Econometrics	Year 1 Elective Course(s)
Master Economic and Financial Research - No specialisation	Year 1 Elective Course(s)
SBE Exchange Master	Master Exchange Courses
SBE Non Degree Courses	Master Courses