

# **STV4228B Game Theory and International Cooperation**

## **Course content**

The course introduces students to game-theoretic models and how such models can be used to analyze core research questions in the study of international cooperation. The course pays particular attention to N-person static and repeated games. The aim is to qualify students to develop and use such models independently, for example in their master thesis.

## **Learning outcome**

### **Knowledge**

The following topics receive particular attention:

- The enforcement of international agreements
- The relationship between treaty participation, enforcement, and compliance
- The prospects for cooperation between actors concerned with relative gains
- Scholarly applications of game theory, including applications to the international climate regime, international sanctions, and EU expansion.

### **Skills**

You will learn to:

- Read and understand game-theoretic work on international cooperation
- Identify and assess the efficiency and plausibility of different types of equilibria in a game-theoretic model
- Construct and analyze game-theoretic models relevant for the study of international cooperation
- Develop game-theoretic models for use in your master thesis

### **Competences**

You will learn to:

- Increase your general analytical competence
- Enhance your ability to use game theory as part of a larger research project in political science.
- Develop your ability to critically assess the fruitfulness of political science work that uses game theory

## **Admission**

Students admitted to other Master programmes may be qualified to apply for the course. Please see the webpage on Admission to single master's courses.

For incoming students: All Master's courses in Political Science must be registered manually by the Department, they will not appear in Studentweb. Contact your international coordinator at UiO.

## **Prerequisites**

Formal prerequisite knowledge:

- Bachelor's degree in Political Science or equivalent.

Recommended previous knowledge:

- Bachelor's degree in Political Science or equivalent.

## **Teaching**

10 lectures will be given. The lectures are held intensively for a period of 5 weeks, with the exam in the sixth week.

This course will be taught at the University of Oslo, Blindern campus. Other locations in Oslo may be used. Fronter will normally be used.

The course is part of the regular course offerings at the Faculty of Social Science. Teaching is mainly held during the daytime. Detailed course-information is found on the Webpage for the current semester.

## **Examination**

One or more written essay (10-15 pages in length), and a 3-hour written exam.

The number of essays to be handed in varies from semester to semester. The course convener will provide further information at the beginning of the course.

In order to receive a passing grade on the essay, your topic will have to reflect the course readings and curriculum. All chosen topics should be approved by the course instructor before the deadline. An essay topic not reflecting the curriculum, will receive a failing grade (F). Any taken home assignment or essay etc. handed in at the University of Oslo may be checked for plagiarism by use of the Ephorus text recognition software.

The written exam counts 60% of the grade, and in order to pass the course, your essay and your written exam must be passed in the same semester as the course is taught. You will receive one overall grade for the course.

The Faculty of Social Science is responsible for the exam(s), and exam(s) are/is normally held at the University of Oslo, Blindern campus. Other locations in Oslo may be used.

### **Examination support material**

Students may use dictionaries at this exam. Dictionaries must be handed in before the examination. Please read regulations for dictionaries permitted at the examination.

### **Language of examination**

It is possible to submit your response in Norwegian, Swedish, Danish or English.

### **Grading scale**

Grades are awarded on a scale from A to F, where A is the best grade and F is a fail. Read more about the grading system.

Examination results are available in StudentWeb within three weeks after the examination-date, if no other information is given on the Webpage for the current semester.

### **Explanations and appeals**

- Explanation of grades - deadline and processing time
- Appeal about grades
- Complaint about formal exam errors

Ask for explanation of your grade in this course

### **Resit an examination**

Illness at exams / postponed exams

Resitting an examination

### **Withdrawal from an examination**

If you wish to withdraw from the exam, you must do so in StudentWeb at least two weeks prior to the deadline. Failure to do so will be counted as one of the three opportunities to sit the exam.

### **Special examination arrangements**

If you have a disability or a health problem that entails significant inconvenience in an examination situation, you may be considered for special examination arrangements. Mothers who are breastfeeding may apply for extra time to complete the exam.

### **Evaluation**

This course is evaluated half way through every semester and every four year the course undergoes a thorough evaluation.

An external auditor regularly evaluates the academic quality of the course and he/she makes a written report every year.