



## GRA 6535 Derivatives

### Studium

Ikke angitt

### Kursansvarlig

Bernt Arne Ødegaard

### Institutt

Finansiell økonomi

### Semester

Se studieplan for aktuelt studium

### Studiepoeng

6

### Mål

A thorough understanding of the workings and pricing of derivative securities.

### Forkunnskaper

GRA 6533 Financial Theory, GRA 6532 Introduction to Derivatives and Risk management

### Obligatorisk litteratur

Hull, John C. 2003. *Options, futures and other derivatives*. 5th ed. Upper saddle river, NJ: Prentice-Hall.

### Anbefalt litteratur

### Emneoversikt

1. Derivative Payoffs
2. Derivative combinations
3. Arbitrage bounds
4. The binomial model and its continuous time limit.
5. The mathematics of continuous time (heuristically).
6. The Black Scholes model.
7. Adjusting the Black Scholes and binomial to price futures and currency options.
8. Delta hedging
9. The basics of the term structure of interest rates.
10. Modelling the evolution of the term structure of interest rates.
11. Fixed income derivatives.
12. Credit derivatives.
13. Exotic derivatives.

### Dataverktøy

Vil bli brukt

### Gjennomføring

Forelesninger

### Eksamen

Your course grade will be based on the following activities and weights:

Specific information regarding any aspect of student evaluation will be provided in class. It is the student's responsibility to obtain this information. Please note that whilst attendance is not compulsory, it is the student's responsibility to obtain any information provided in class that is not included on the course homepage/Blackboard or text book. Homepages and/or Blackboard are not designed for the purpose of students who choose not to attend class.

75% of the evaluation is based on a 3 hour exam at the end of the course. The remainder 25% is based on class work (in the form of a mix of some / all of the following: hand in of case write ups, projects and homeworks; case presentations and class participation; in class midterm and quizzes) Information regarding any aspect of student evaluation will be provided in class. It is the students responsibility to obtain this information.

**Eksamenskode(r)**

GRA 65353 accounts for 100 % of the final grade in the course GRA 6535.

**Hjelpemidler til eksamen**

Calculator, Interest Rate Tables, Berck and Sydsæter, Economists' mathematical manual, in Norwegian or English

**Kontinuasjon**

At the next ordinary exam