## Course Materials

- Weekly Slides
- Weekly Additional Examples
- **3** Bi-weekly Assignments  $(\times 4)$
- Mid-term revision question pack (after S4)
- **6** End-term revision question pack (after S8)
- 6 Sample Final Exam paper

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## Reference Text

The course materials is self-contained.

#### For additional reading:

- 1 Steven Shreve (2004): "Stochastic Calculus for Finance I & II"
- Martin Baxter and Andrew Rennie (2006): "Financial Calculus: An Introduction to Derivative Pricing"
- Mark Joshi (2008): "The Concepts and Practice of Mathematical Finance"
- 4 Tim Falcon Crack (2014): "Basic Black-Scholes: Option Pricing and Trading"

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## Components

- Class Participation: 10% (individual)
- Project: 20% (group)
  - $\Rightarrow$  Form groups of 3-4 persons each.
- Assignments (×4): 20% (individual)
- Final Exam: 50% (individual)

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# Project — More about this next week

Objective: use Python to implement part of the models covered in this course.

- Analytical option pricers
- Static replication of European payoffs
- Oynamic hedging
- 4 Stochastic Volatility models
- 6 Calibration to market data

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