

Financial derivatives

**Summer term 2015/2016: 15<sup>th</sup> February 2016 - 20<sup>th</sup> May 2016**

One week is left unspecified for possibly cancelled classes (e.g. because of the Student scientific conference)

Week	Date	Lecture	Date	Computer exercises	Homework, extra credit
1	15 <sup>th</sup> February	Options, option strategies, bounds on option prices	18 <sup>th</sup> February	Options, option strategies, bounds on option prices	Extra credit 1 assigned, deadline: 25 <sup>th</sup> February
2	22 <sup>nd</sup> February	Stochastic calculus	25 <sup>th</sup> February	Stochastic calculus I.	
3	29 <sup>th</sup> February	Black-Scholes model I.	3 <sup>rd</sup> March	Stochastic calculus II.	
4	7 <sup>th</sup> March	Black-Scholes model II.	10 <sup>th</sup> March	Test I.	
5	14 <sup>th</sup> March	Leland model, overview of other nonlinear models	17 <sup>th</sup> March	Black-Scholes model I.	Extra credit 2 and the list of individual homework assigned, deadline for both: 18 <sup>th</sup> May
6	21 <sup>st</sup> March	American options	24 <sup>th</sup> March	possibly a free day before Easter	
7	28 <sup>th</sup> March	Easter holidays	31 <sup>st</sup> March	Black-Scholes model II.	
8	4 <sup>th</sup> April	Numerical methods I.	7 <sup>th</sup> April	Leland model	
9	11 <sup>th</sup> April	Numerical methods II.	14 <sup>th</sup> April	Test II.	
10	18 <sup>th</sup> April	Term structure models I.	21 <sup>th</sup> April	Numerical pricing of American options	Programming exercise assigned, its results constitute part of Test III
11	25 <sup>th</sup> April	Term structure models II.	28 <sup>th</sup> April	Unspecified – back-up for a possibly cancelled class, etc.	
12	2 <sup>nd</sup> May	Test III.	5 <sup>th</sup> May	Extra credit 3: game about financial derivatives similar to Activity or Party Alias	
13	9 <sup>th</sup> May	Exotic options I.	12 <sup>th</sup> May	Term structure models	
14	16 <sup>th</sup> May	Exotic options II.	19 <sup>th</sup> May	Possible retake of one test or an exam; date of exams later in May and in June will be determined	