

Course Programme TMS165/MSA350 Stochastic Calculus Part I, 7.5 credits, 1st quarter Fall 2009

Responsible Teacher. Patrik Albin (Lectures 1-11), room L3072 Mathematica Sciences, email palbin@chalmers.se, tel. 31 772 3512.

Other Teachers. Stig Larsson (Lectures 12-13), room L2078, email stig@chalmers.se, tel. 31 772 3543. Magnus Röding (exercise sessions and examination of hand-ins), room L3068, email roding@chalmers.se, tel. 31 772 3556.

Course www-page. <http://www.math.chalmers.se/Stat/Grundutb/CTH/tms165/0910/>

Responsible University Unit. Department of Mathematical Statistics, Mathematica Sciences, Chalmers Tvärgata 3. Expedition: Monday-Friday 8.30 am - 1 pm.

Literature. *Fima C. Klebaner: Introduction to Stochastic Calculus with Applications, Second Edition 2005*, available from Cremona Chalmer's bookshop.

Additional lecture notes on applications (Lecture 11) and on numerical methods (Lectures 12-13) will be distributed and are available through the course www-page.

Language. The course is given in english.

Content of Course. Chapters 1-5 in Klebaner's book. Additional lecture notes on applications and numerical methods.

Examination is handled by Magnus Röding (albeit Patrik is the formal examiner) through hand-ins, see the course www-page. Help with the hand-ins is offered by Magnus. The grades on the course will be based on the quality of the hand-ins. Electronically submitted hand-ins (by email to Magnus) are recommended. Non-electronical submissions must be in duplicate.

It is an outspoken intention that every student that is reasonably well prepared and reasonably well motivated should have a lot of positive things to get from the course. All such students should also pass the examination. If in doubt about anything of this, please contact Patrik.

Admission and Registration. Students that have not been admitted to the course or registered for it are very welcome anyway! Advice on how to register will be offered by Patrik at the lectures.

Lectures are in room EULER, except Monday 5 October when we are in room PASCAL.

Schedule	Day	Time and place	Programme
Lecture	Thursday 3 September	1.15-3 pm in EULER	Cancelled
Lecture 1	Monday 7 September	3.15-5 pm in EULER	Ch. 1 in Klebaner's book
Lecture 2	Wednesday 9 September	3.15-5 pm in EULER	Ch. 2 in Klebaner's book
Lecture 3	Monday 14 September	3.15-5 pm in EULER	Ch. 2 in Klebaner's book
Lecture 4	Wednesday 16 September	3.15-5 pm in EULER	Ch. 3 in Klebaner's book
Lecture 5	Monday 21 September	3.15-5 pm in EULER	Ch. 3 in Klebaner's book
Lecture 6	Wednesday 23 September	3.15-5 pm in EULER	Ch. 3 in Klebaner's book
Lecture 7	Monday 28 September	3.15-5 pm in EULER	Ch. 4 in Klebaner's book
Lecture 8	Wednesday 30 September	3.15-5 pm in EULER	Ch. 4 in Klebaner's book
Lecture 9	Monday 5 October	3.15-5 pm in PASCAL	Ch. 5 in Klebaner's book
Lecture 10	Wednesday 7 October	3.15-5 pm in EULER	Ch. 5 in Klebaner's book
Lecture 11	Selfstudies	Selfstudies	Applications
Lecture 12	Monday 12 October	3.15-5 pm in EULER	Numerical methods
Lecture 13	Wednesday 14 October	3.15-5 pm in EULER	Numerical methods

Exercises are in room EULER Thursdays 1.15-3 pm starting Thursday 10 September. A separate programme for the exercises will be distributed by Magnus. See also the course www-page.

