



Preliminary schedule BIOS11 - The Scientific Method, fall 2011

Location: XXX, Ekologihuset (the Ecology Building), Sölvegatan 37.

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Teachers: Per Lundberg (PL)
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Course literature: Gotelli & Ellison - A Primer of Ecological Statistics (2004)
Sinauer Associates Inc, US, ISBN: 0878932690

Various papers and hand-outs

Attendance: Exercises (incl. presentations and reports) are mandatory

Date	Time	Moment	Title	Teacher
Mon 29/8	10-12	Introduction		PL, NJ
	13-16	Lecture	The roots of science	PL
Tue 30/8	9-12	Lecture	The philosophy of science 1	PL
Wed 31/8	9-12	Lecture	The philosophy of science 2	PL
Thu 1/9	9-12	Project	Intro- How is science done?	PL
Fri 2/9	9-16	Project	How is science done?	
Mon 5/9	9-16	Project	How is science done?	
Tue 6/9	9-12	Presentation	How is science done?	PL
	13-16	Lecture	Experimental design 1	NJ
Wed 7/9	9-12	Lecture	Models and hypotheses	PL
Thu 8/9	9-12	Project	Hypotheses	
Fri 9/9	9-16	Project	Hypotheses	
Mon 12/9	9-12	Lecture	Probability	PEI

Tue 13/9	9-12	Presentation	Project Hypotheses	
Wed 14/9	9-12	Lecture	Descriptive statistics	PEI
	13-16	Computer exercise	and hypothesis testing Intro SPSS	
Thu 15/9	9-12	Stat. project 1		
Fri 16/9	9-16	Stat. project 1		
Mon 19/9	9-12	Presentation	Stat. project 1	
Tue 20/9	9-16	Stat. project 2		
Wed 21/9	9-16	Stat. project 2		
Thu 22/9	9-16	Stat. projekt 2		
Fri 23/9	9-12	Presentation	Stat. project 2	
Mon 26/9	13-16	Lecture	Regression	PEI
Tue 27/9	9-12	Lecture	ANOVA	PEI
	13-16	Computer exercise	ANOVA, regression	
Wed 28/9	9-12	Lecture	Experimental design 2	NJ
Thu 29/9	9-16	Stat. project 3		
Fri 30/9	9-16	Stat. project 3		
Mon 3/10	9-12	Presentation	Stat. project 3	
Tue 4/10	10-12	Lecture	Scientific integrity	PL
	13-16	Project	Scientific integrity	PL
Wed 5/10	9-16	Project	Scientific integrity	
Thu 6/10	9-12	Project	Scientific integrity	
Fri 7/10	9-12	Presentation	Scientific integrity	PL
Mon 10/10	9-16	Stat. project 4		
Tue 11/10	9-16	Stat. project 4		
Wed 12/10	9-16	Stat. project 4		
Thu 13/10	9-12	Presentation	Stat. project 4	
Fri 14/10	9-12	Lecture	Science and $p < 0.05$	PL
Mon 17/10	9-12	Lecture	Can science be trusted?	PL
Tue 18/10	9-16	Project	Can science be trusted?	
Wed 19/10	9-16	Project	Can science be trusted?	

Thu 20/10	9-12	Project	Can science be trusted?
Fri 21/10	9-12	Presentation	Can science be trusted?
Mon 24/10	13-16	Advice - exam	
Tue 25/10		Preparations - exam	
Wed 26/10	9-15	Exam.	
