

# Statistics for Biologists III

Teachers	Room	Phone	E-mail
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Matthew Low	NA	NA	<a href="mailto:matt.low@slu.se">matt.low@slu.se</a> (Lecturer)
Loke von Schmalensee	NA	NA	<a href="mailto:loke.von.schmalensee@zoologi.su.se">loke.von.schmalensee@zoologi.su.se</a> (Computer exercises)

<https://www.su.se/english/search-courses-and-programmes/bl8063-1.537091>  
<https://cloud.timeedit.net/su/web/stud1/ri167XQQ507Z50Qv57063gZ6y3Y7907Q5Y65Y1.html>

Date		Time	Room	Content	Teacher
<b>Part 1</b>					
2022-12-01	Thu	10 <sup>00</sup> -12 <sup>00</sup>	P232	Course introduction and Computer demonstration: Using R <i>Bring a laptop if you can!</i>	Tack
		13 <sup>00</sup> -15 <sup>30</sup>	P232	<b>Lecture 1:</b> Basic concepts; Distributions; Probabilities; Central limit theorem	Tack
2022-12-02	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 2:</b> Parameter estimation; Confidence intervals; Hypothesis testing	Tack
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 1	Von Schmalensee
2022-12-05	Mon	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 3:</b> Covariance and correlation; Linear regression	Tack
		13 <sup>00</sup> -14 <sup>00</sup>	P232	<b>Intermezzo:</b> R Markdown	Fogelström
		14 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 2	Von Schmalensee
2022-12-06	Tue	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 4:</b> Multiple regression <i>(Test exercise distribution)</i>	Liedholm
2022-12-7	Wed	13 <sup>00</sup> -15 <sup>00</sup>	P232	<u>Hand in test exercise 1 at 15:00</u>	Von Schmalensee
<b>Part 2</b>					
2022-12-8	Thu	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 5:</b> ANOVA	Von Schmalensee
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 3	Von Schmalensee
2022-12-9	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 6:</b> ANCOVA; Transformations; Statistical power	Tack
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 4	Von Schmalensee

2022-12-12	Mon	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 7:</b> Linear models, Mixed models; Nested ANOVA; Variance components	Tack
2022-12-13	Tue	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 8:</b> Two-way ANOVA; Blocking ( <i>Test exercise distribution</i> )	Tack
2022-12-14	Wed	13 <sup>00</sup> -15 <sup>00</sup>	P232	<i>Hand in test exercise 2 at 15:00</i>	Von Schmalensee
2022-12-15	Thu	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 9:</b> More on linear models; Blocks – fixed or random	Tack
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 5	Von Schmalensee
2022-12-16	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 10:</b> Analysis of frequencies, introduction	Tack
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 6	Von Schmalensee
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2022-12-19	Mon	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 11:</b> Analysis of frequencies, continued; Generalized linear models	Tack
2022-12-20	Tue	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 12:</b> Experimental design ( <i>Test exercise distribution</i> )	Tack
2022-12-21	Wed	13 <sup>00</sup> -15 <sup>00</sup>	P232	<i>Hand in test exercise 3 at 15:00</i>	
2022-12-22	Thu			<b>Book reading</b>	
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<b>Happy holidays!</b>					
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<b>Part 4</b>					
2022-01-09	Mon	10 <sup>00</sup> -12 <sup>00</sup>	P232 (or zoom)	<b>Lecture 13:</b> Computer based methods: randomization, bootstrap	Miller
2022-01-10	Tue	10 <sup>00</sup> -12 <sup>00</sup>	P232	<b>Lecture 14:</b> Bayesian statistics, introduction	Low
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 7	Von Schmalensee
2022-01-11	Wed	10 <sup>00</sup> -12 <sup>00</sup>	P232	<b>Lecture 15:</b> Bayesian statistics, continued	Low
		13 <sup>00</sup> -16 <sup>00</sup>	P232	Computer exercise 8	Von Schmalensee
2022-01-12	Thu	9 <sup>30</sup>	P232	<i>Test exercise distribution</i>	Tack
2022-01-13	Fri	13 <sup>00</sup> -15 <sup>00</sup>	P232	<i>Hand in test exercise 4 at 15:00</i>	Von Schmalensee