

# Statistics for Biologists III

Teachers	Room	Phone	E-mail
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<https://www.su.se/english/search-courses-and-programmes/bl8063-1.537091>  
<https://cloud.timeedit.net/su/web/stud1/ri165XQl706Z5QQv57063ZZ6y3Y750uQ3Y65Y1gQ70157.html#>

Date		Time	Room	Content	Teacher
<b>Part 1</b>					
2021-12-02	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
2021-12-03	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P224	<b>Lecture 2:</b> Parameter estimation; Confidence intervals; Hypothesis testing	Tack
		13 <sup>00</sup> -15 <sup>00</sup>	P224	Computer exercise 1	van Dijk/Tack
2021-12-06	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	van Dijk
2021-12-07	Tue	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 4:</b> Multiple regression <i>(Test exercise distribution)</i>	Liedholm
2021-12-8	Wed	13 <sup>00</sup> -15 <sup>00</sup>	P232	<u><i>Hand in test exercise 1 at 15:00</i></u>	van Dijk
<b>Part 2</b>					
2021-12-9	Thu	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 5:</b> ANOVA	van Dijk
		13 <sup>00</sup> -15 <sup>00</sup>	P232	Computer exercise 3	van Dijk
2021-12-10	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 6:</b> ANCOVA; Transformations; Statistical power	Tack
		13 <sup>00</sup> -15 <sup>00</sup>	P232	Computer exercise 4	van Dijk

2021-12-13	Mon	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 7:</b> Linear models, Mixed models; Nested ANOVA; Variance components	Tack
2021-12-14	Tue	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 8:</b> Two-way ANOVA; Blocking ( <i>Test exercise distribution</i> )	Tack
2021-12-15	Wed	13 <sup>00</sup> -15 <sup>00</sup>	P232	<i>Hand in test exercise 2 at 15:00</i>	van Dijk
2021-12-16	Thu	9 <sup>30</sup> -12 <sup>00</sup>	P508	<b>Lecture 9:</b> More on linear models; Blocks – fixed or random	Tack
		13 <sup>00</sup> -15 <sup>00</sup>	P508	Computer exercise 5	van Dijk
2021-12-17	Fri	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 10:</b> Analysis of frequencies, introduction	Tack
		13 <sup>00</sup> -15 <sup>00</sup>	P232	Computer exercise 6	van Dijk
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2021-12-20	Mon	9 <sup>30</sup> -12 <sup>00</sup>	P232	<b>Lecture 11:</b> Analysis of frequencies, continued; Generalized linear models ( <i>Test exercise distribution</i> )	Tack
2021-12-21	Tue	13 <sup>00</sup> -15 <sup>00</sup>	P232	<i>Hand in test exercise 3 at 15:00</i>	van Dijk
2021-12-22	Wed			<b>Book reading</b>	
2021-12-23	Thu			<b>Book reading</b>	

**Happy holidays!**

**Part 4**

2022-01-10	Mon	10 <sup>00</sup> -12 <sup>00</sup>	P232	<b>Lecture 12:</b> Computer based methods: randomization, bootstrap	Miller
2022-01-11	Tue	10 <sup>00</sup> -12 <sup>00</sup>	P232	<b>Lecture 13:</b> Bayesian statistics, introduction	Low
		13 <sup>00</sup> -15 <sup>00</sup>	P232	Computer exercise 7	van Dijk
2022-01-12	Wed	10 <sup>00</sup> -12 <sup>00</sup>	P232	<b>Lecture 14:</b> Bayesian statistics, continued	Low
		13 <sup>00</sup> -15 <sup>00</sup>	P232	Computer exercise 8	van Dijk
2022-01-13	Thu	9 <sup>30</sup> -12 <sup>00</sup>	P224	<b>Lecture 15:</b> Experimental design ( <i>Test exercise distribution</i> )	Tack
2022-01-14	Fri	12 <sup>00</sup> -14 <sup>00</sup>	P232	<i>Hand in test exercise 4 at 14:00</i>	van Dijk
		14 <sup>00</sup> -16 <sup>00</sup>	P232	<b>Lecture 16:</b> Summarizing discussion	Tack