

MSc Research skill winter term 2014 – course overview

	Monday 20.10.	Tuesday 21.10.	Wednesday 22.10.	Thursday 23.10.	Friday 24.10.
9.15 till 12.45	<p>9.15 - 10.00 MSc general introduction</p> <p>Science and the scientific method</p> <p>Course overview</p> <p>Finding a question Previous work Novelty</p>	<p>On the shoulder of giants: dealing with literature Searching, Literat. DB, Jabref etc.</p> <p>Practicals FH, PB</p> <p>Afternoon MSc profile line infos</p>	<p>Question rev.</p> <p>Intro to statistics Regression, NHST</p> <p>Design of Experiments Planning Statistical power</p>	<p>Field day</p>	<p>Scientific Ethics and Culture</p> <p>Organizing your Research</p> <p>Good scientific practice, reproducibility, scripting, archiving,</p> <p>Afternoon free</p>
	Monday 27.10.	Tuesday 28.10.	Wednesday 29.10.	Thursday 30.10.	Friday 31.11.
9.15 till 12.45	<p>Introduction to R</p> <p>Graphics</p> <p>What makes good graphics?</p> <p>Afternoon exercise: graphics with R PB</p>	<p>LaTeX</p> <p>Word processing with LaTeX</p> <p>Afternoon exercise: Latex PB</p> <p>From 16.15 room 100 blocked</p>	<p>Communication Basics</p> <p>Ends and means, Elevator speech Social media</p> <p>Regression analysis with R</p> <p>Afternoon exercise: regression with R PB</p>	<p>Practice day Data analysis</p> <p>FH, PB available for questions</p>	<p>Writing 1</p> <p>Article types, Publication Process</p> <p>Structure of a research article</p> <p>Hand in draft until Sunday</p>
	Monday 3.11.	Tuesday 4.11.	Wednesday 5.11.	Thursday 6.11.	Friday 7.11.
9.15 till 12.45	<p>Writing 2</p> <p>Style</p> <p>Paragraph structures</p> <p>Choice of wording and common mistakes</p>	<p>Poster</p> <p>What makes a good poster</p> <p>Presentation 1</p> <p>Presentation types</p> <p>Conference presentation</p>	<p>Presentation 2</p> <p>Practice day</p> <p>FH, PB</p> <p>CIP 2 morning blocked</p>	<p>Choosing a career in science</p> <p>Should I do a PhD?</p> <p>Reviewing</p> <p>Peer review</p>	<p>Practice day</p> <p>Finalize research article</p>

FH = Florian Hartig, **PB** = Paul Bauche

Morning schedule: lectures start at 9 c.t. (this means: 9:15!) and typically end around 12.45 in Room 100. CIP rooms 1 and 2 are reserved for the afternoons. Except for the first day, where you will have a general introduction, so lectures start at 10.00

Afternoon schedule: By default, assume that afternoons are reserved for unsupervised homework, i.e. you can do the exercises in your own time and at your place of choice. However, as 1) you are working in groups, 2) we have computers and software here 3) you have a tutor here at the uni, it is highly recommended to work at the Uni if you can manage with your other appointments. There are some exceptions marked in the timetable where we have supervised exercises, notably at the beginning of week 2. Please block the afternoons for those, these practicals cover subjects that are essential for the final paper.

Some **course material** and links here <http://florianhartig.github.io/ResearchSkills/>

All other organizational issues will be explained on the first day of the course. See you there! / Florian Hartig