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

**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 <a href="http://florianhartig.github.io/ResearchSkills/">http://florianhartig.github.io/ResearchSkills/</a>

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