MSc Research Skills winter term 2015 – course overview

	Monday 19.10.	Tuesday 20.10.	Wednesday 21.10.	Thursday 22.10.	Friday 23.10.
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, SH	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,
	Monday 26.10.	Tuesday 27.10.	Wednesday 28.10.	Thursday 29.10.	Friday 30.11.
9.15 till 12.45	Introduction to Graphics in R Moming practical: graphics with R SH, FH Afternoon: visual data analysis SH	LaTeX Morning practical: LaTeX SH, FH Afternoon: your document in LaTeX SH	Regression analysis in R Afternoon exercise: regression in R SH	Practice day Data analysis FH, SH available for questions	Writing 1 Article types, Publication Process Structure of a research article Hand in draft until Sunday
	Monday 2.11.	Tuesday 3.11.	Wednesday 4.11.	Thursday 5.11.	Friday 6.11.
9.15 till 12.45	Writing 2 Style Paragraph structures Choice of wording and common mistakes Logic	Communication Ends and means, Social media Intercultural communication Poster What makes a good poster	Reviewing Peer review Presentation 1 Presentation types Conference presentation	Presentation 2 FH, SH Choosing a career in science Should I do a PhD?	Practice day Finalize research article

FH = Florian Hartig, **SH** = Severin Hauenstein

Morning schedule: lectures start at 9 c.t. (this means: 9:15!) and typically end around 12.45 in Room x. CIP rooms XXX 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