

PhD Introductory Course:

“Doing Good Science”

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(Officially Course #443001 “Advanced Topics in Cognition of Communication”: WS 2021)

The purpose of the course is to provide an introduction to the many factors involved in doing a PhD that are *not* normally taught. This includes everything about doing research from hypothesis testing and experimental design through analysis, write-up, and presentations. Additional modules on scientific ethics (for both human and animal experimentation) and work/life balance will also be offered. The course proceeds in roughly the order in which the tasks will be encountered in a typical PhD.

For each session there will be lecture followed by discussion. Attendance is required.

Mondays 15:00 – 17:00

Course Dates 11 lectures:

Oct 18, 25

Nov 15, 22, 29

Dec 6, 13

Jan 3, 10, 17, 24 2022

Lecture Schedule:

Date	Lecture	Topic(s)
18.Oct	1	A: Why do a PhD? B: Discussion
25.Oct	2	Testing Multiple Hypotheses: Strong Inference
15.Nov	3	Organizing Time + Strong Inference - 2 nd Session
22.Nov	4	Experimental Design/Writing Methods + Scientific Ethics
29.Nov	5	Staying Sane in Science: Gender, Family, and Work/Life Balance Issues
06.Dec	6	Methods Section + Scientific Conduct
13.Dec	7	A: Data Acquisition and Management; B: Statistics, Models, Code
03.Jan	8	A: Good Graphics & Figures; B: Giving Good Presentations
10.Jan	9	Writing: The Heart of Science. Authorship issues.
17.Jan	10	A: The Publication Process & Reviewing; B: Dealing with the Media
24.Jan	11	Getting Money: Grants & Getting Jobs: Interviews