

Statistics II LIX013B05, 2013–2014 Semester IIb

Course Description: This course is a second course in basic statistics for students of Faculty of Arts, especially in linguistics (including aphasiology and applied linguistics), communications studies, and information science.

Course Objectives: After completing this course, students should be able to:

- understand the logic behind hypothesis testing and statistical modeling
- perform statistical analyses requiring methods like, *regression*, *ANOVA*, *logistic regression*
- understand the statistical results presented in scientific publications and popular media
- use SPSS for statistical analysis

Prerequisites: Statistics I

Students with equivalent knowledge (through other coursework or experience) can also take the course with the consent of the instructor.

Credits: 5 ECTS

Textbook:

Andy Field, 2009, *Discovering Statistics using SPSS*, 3rd ed. London: Sage

Time/Place:

Lectures: Tuesday 11:00–13:00, Zernikezaal
(see below for the computer lab schedule)

Weekly Plan:

Week	Lecture	Reading	Lab exercise
16	Introduction, Correlation & Regression	<i>3e</i> : 6.1–6.5, 7.1–7.4 <i>4e</i> : 7.1–7.4, 8.1–8.4	–
17	Multiple Regression	<i>3e</i> : 7.5–7.10 <i>4e</i> : 8.5–8.9	Regression
18	One-way ANOVA	<i>3e</i> : Ch.10, (7.11–7.12) <i>4e</i> : 11.1–11.9 (10.5)	Multiple regression
19	Factorial (N-way) ANOVA	<i>3e</i> : Ch.12 <i>4e</i> : Ch.13	ANOVA (single & fact.)
20	Repeated Measures ANOVA	<i>3e</i> : Ch.13 (19.1–19.5) <i>4e</i> : ch.14 (20.1–20.5)	RM ANOVA
21	Logistic Regression	<i>3e</i> : Ch.8 <i>4e</i> : Ch.19	Logistic Regression
22	Summary / Advanced topics	–	–

In the reading list, ‘*3e*’ indicates 3rd edition of the textbook, ‘*4e*’ indicates 4th edition. The section/chapters in parentheses indicate optional (but recommended!) reading material. All ranges are inclusive.

Evaluation:

- **Final exam** (80%). On Fri 2014-06-06 at 14:00, A. Jacobshal 01.
- **Computer/lab exercises** (10%). There will be 5 practical exercises starting second week of the course (see the schedule above).
- **Quizzes** (5%). There will be 6 quizzes, with the following schedule:

Quiz	Available	Deadline
1	Apr 15	Apr 29
2	Apr 22	May 06
3	Apr 29	May 13
4	May 06	May 20
5	May 13	May 27
6	May 20	Jun 03

Multiple trials of the quizzes are allowed. Less than 60% success counts as 0, otherwise the final score is the score you get from the quiz (not 100%).

- **Attendance** (5%) if you attend 5 or more lectures. Attendance to all lectures is mandatory.

The overall average has to be 5.5/10 or higher for successful completion of the course.

Computer Labs:

Group	Time	Location	Instructor
Group 2	Wed 11:00–13:00	1312.0119A	Noortje Hemmen
Group 4	Thu 11:00–13:00	1312.0119A	Lena Rampula
Group 3	Fri 11:00–13:00	1312.0119A	Lena Rampula
Group 1	Fri 13:00–15:00	1312.0119A	Noortje Hemmen

Attendance to the computer labs are not mandatory, but strongly recommended.

Lab reports (*to be submitted via Nestor, in PDF format*) are due one week after the lab session. Late reports (no more than one week) receive half credit. Lab reports should include clear answers to the questions on the lab sheets, including graphics and tables from relevant SPSS output. SPSS output without answers is not acceptable.

Expected workload:

Lectures, Labs & Exams	30 hours
Course preparation (inc. quizzes)	72 hours
Exam preparation	38 hours
Total	140 hours = 5 ECTS

Course Web Page: <http://www.let.rug.nl/coltekin/statsII/>

Course slides and the lab exercises will be posted on the course web page.

Instructor: Çağrı Çöltekin (c.coltekin@rug.nl)
1311.426 (Harmoniegebouw, 4th floor)

Office Hours: Wednesday 09:00-11:00 (or by appointment)