# lfial2260

*2022*

# Statistics for Linguistics

| 10.00 credits | 22.5 h | Q1 |
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| Teacher(s) | Paquot Magali ; |
| Language : | English |
| Place of the course | Louvain-la-Neuve |
| Prerequisites | One course of introduction to linguistics. |
| Main themes | Quantitative analysis of linguistic data with R<br><br>• Data visualization<br>• Descriptive statistics : definitions ; computing and representation<br>• Inferential statistics: main concepts<br>• Basic statistical analyses : frequency comparisons, means comparisons, non-parametric testing, correlationsques, correlations<br>• (Theoretical) introduction to regression modelling and classification trees |
| Learning outcomes | **At the end of this learning unit, the student is able to :**<br>At the end of the course, students will be able to select and use basic quantitative methods to analyze linguistic phenomena with the help of a statistical software tool.<br><br>More practically, they will be able to use the statistical software tool R to explore linguistic data (descriptive statistics), represent data visually, and select the most appropriate statistics (among basic approaches) given the structure of their dataset<br><br>They will also be able to understand a scientific article based on more sophisticated statistical techniques (e.g. regression modelling), and to critically examine the results of a quantitative study. |
| Evaluation methods | The evaluation will be twofold:<br><br>• Continuous assessment (30%): e.g. participation in class activities, tests and exercises<br>• Written exam (70%)<br><br>In case of resit, the evaluation will be based on a written exam only (100%) |
| Teaching methods | The teaching method will be a mix of traditional lectures and exercises |
| Content | Quantitative analysis of linguistic data with R (descriptive statistics, inferential statistics, data visualization) |
| Inline resources | https://moodleucl.uclouvain.be/course/view.php?id=12097 |
| Bibliography | • Field, A. et Miles, J. and Field, Z. (2012). *Discovering Statistics Using R. London : Sage Publications.*<br>• Gries, St. Th. 2013. *Statistics for Linguistics with R. A Practical Introduction.* 2nd edition. Berlin: De Gruyter Mouton.<br>• Howell, D. C. (2016). *Fundamental statistics for the behavioral sciences.* Nelson Education. |
| Other infos | This course requires a good command of English (receptive and productive skills). |
| Faculty or entity in charge | FIAL |

| Programmes containing this learning unit (UE) | | | | |
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| Program title | Acronym | Credits | Prerequisite | Learning outcomes |
| Master [120] in Linguistics | LING2M | 10 | | 🔍 |