

Methodology & Statistics in Psychology

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Universiteit
Leiden



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Programme overview

Programme structure

- Mandatory courses 25 EC
- Elective courses 5 EC
- Thesis 20 EC
- Internship 10 EC

Degree

- MSc in Psychology

Type of programme

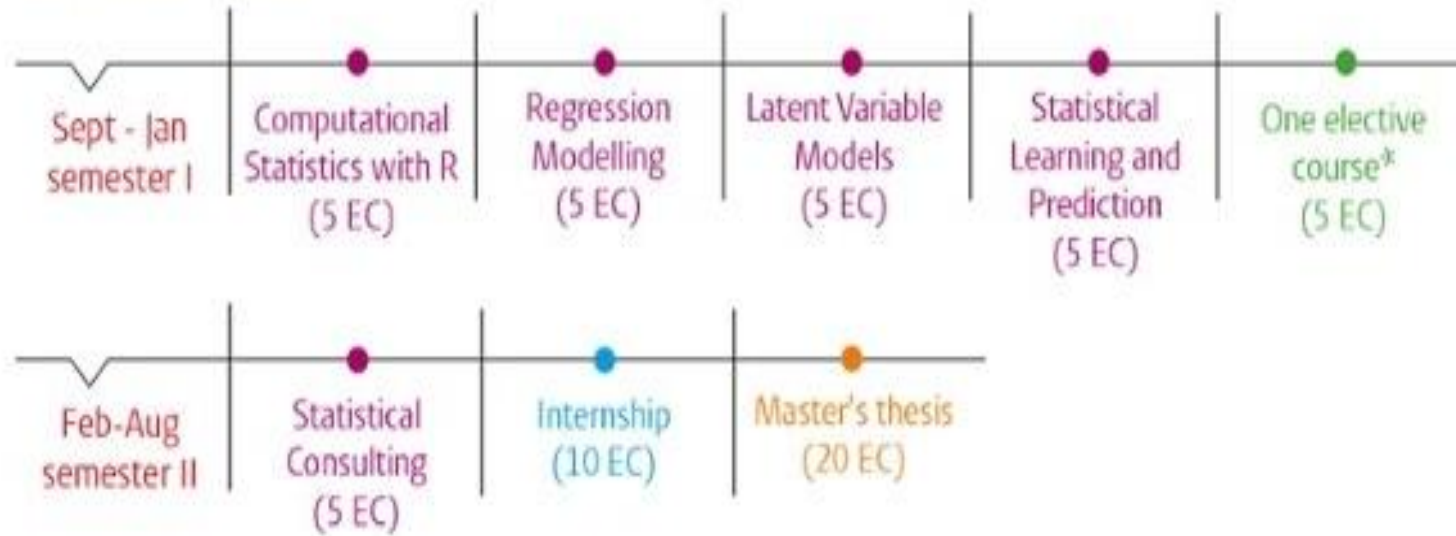
- Full time
- 60 EC
- Fully English spoken

Starts in

- September
- February

Programme outline

September intake



● Core course ● Internship ● Master's Thesis ● Elective course

**You can also choose to follow an elective course in semester II. We recommend that you choose one of the following electives: fMRI Data and Statistics (semester II); Statistical Mediation and Moderation (semester I). See Prospectus for the total list of available electives.*

Programme schedule (September intake)

First semester (September-January)

Block I (Sept - Oct)

- **Comp. Stat. R (part Block II)**
- Regression Modelling

Block II (Nov - Dec)

- **Stat. Learning & Prediction**
- Latent Variable Models
- **(Comp. Stat. R)**
- elective: Stat. Mediation & Moderation

Second semester (February-August)

Block III (Feb - Mar)

- **Stat. Consulting (part in Block IV)**
- Internship (till end April)
- elective: fMRI and Data Analysis

Block IV (Apr - May)

- Thesis (May - August)
- **(Stat. Consulting)**

Programme schedule (February intake)

First semester (February-August)

Block III (Feb – Mar)

- **Comp. Stat. R (part in Block IV)**
- elective: fMRI and Data Analysis

Block IV (Apr – May)

- **Stat. Learning & Prediction**
- Internship (internal, R task)
- **(Comp. Stat. R)**

Second semester (September-January)

Block I (Sept – Oct)

- Regression Modeling
- **Stat. Consulting (part in Block II)**
- Thesis (part in Block II)

Block II (Nov – Dec)

- Latent Variable Models
- Thesis (until January)
- **(Stat. Consulting)**
- elective: Stat. Mediation & Moderation

Mandatory courses

- Computational Statistics with R (**offered twice**)
 - programming in R
 - some optimization and linear algebra
- Regression Modelling
 - generalized linear regression model + multilevel models
- Statistical Learning and Prediction (**offered twice**)
 - machine learning methods for making predictions
 - evaluating predictions
- Latent Variable Models
 - advanced psychometrics: Structural equation Modeling
- Statistical Consulting (10EC requirement) (**offered twice**)
 - practical tools on how to do a consult

-> Additional information: Prospectus

-> Mandatory attendance? Differs per course



Electives

List of possible electives

- Block II: Statistical Mediation and Moderation
- Block III: fMRI and Data Analysis

→ Wider list of electives (also other specialisations):
Prospectus



Internship

- Internal and external projects (10EC)
 - analysis of data set, including making the data ready
 - presentation/report + reflection report
- Only when you passed enough courses (10EC min, ideally 20EC)
- Topic allocation
 - mid November: session practical info on internship and thesis
 - December: determining top 3 choices and allocation of projects
- Length?
 - 280 hours
 - 4 days a week (could be less)
 - about 10 weeks (ideally 3 months)

-> enough projects, you can select own project

Project places



Ministerie van Sociale Zaken
en Werkgelegenheid



Nederlands Studiecentrum
Criminaliteit en Rechtshandhaving



Amsterdam UMC



Universiteit Leiden



Room for own proposals !!



Internship

- Internal and external projects (10EC)
 - analysis of data set, including making the data ready
 - presentation/report + reflection report
- Only when you passed enough courses (10EC min, ideally 20EC)
- Topic allocation
 - mid November: session practical info on internship and thesis
 - December: determining top 3 choices and allocation of projects
- Length?
 - 280 hours
 - 4 days a week (could be less)
 - about 10 weeks (ideally 3 months)

-> enough projects, you can select own project



Thesis

- Internal (mainly) and external projects (20EC)
 - could be combined with internship
 - solving in a scientific way a data analysis problem (simulation)
 - Final part of your master
 - only when you passed enough courses (ideally 20/25EC)
 - Topic allocation
 - mid November: session practical info
 - February/March: look for your topic (a list will be available)
 - Length?
 - 560 hours
 - 5 days a week (could be less)
 - about 14 weeks (ideally 4 months)
- > enough projects, you can select own project

Going abroad

- Internship/Thesis abroad
 - register internship/thesis project in uSis via *Study Abroad* portal
 - at least two weeks before departure
- > also when doing internship/thesis in your home country



Before the start of the programme

Sign up for courses

- When?
 - Course planning: *June and November*
 - Course enrolment: *July and December*
- Instructions on student website of Leiden University

Be present at the Master's Kick Off

- When?
 - September start: *end of August*
 - February start: *end of January*
- > We expect you to attend the Kick Off
-> More information will follow via email

**We are looking forward to
welcoming you
at Leiden University!**



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