

Research Methods I (H001826)

Course size (nominal values; actual values may depend on programme)

Credits 6.0 Study time 180 h Contact hrs 45.0 h

Course offerings and teaching methods in academic year 2016-2017

A (semester 2)	Dutch	lecture	30.0 h
		seminar: practical	10.0 h
		seminar: coached	5.0 h

Lecturers in academic year 2016-2017

Moerkerke, Beatrijs	PP01	lecturer-in-charge
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Offered in the following programmes in 2016-2017

	crdts	offering
Bachelor of Science in Psychology (main subject Clinical Psychology)	6	A
Bachelor of Science in Psychology (main subject Personnel Management and Industrial Psychology)	6	A
Bachelor of Science in Psychology (main subject Theoretical and Experimental Psychology)	6	A
Linking Course Master of Science in Psychology (main subject Clinical Psychology)	5	A
Linking Course Master of Science in Psychology (main subject Personnel Management and Industrial Psychology)	5	A
Linking Course Master of Science in Psychology (main subject Teacher Education and Training)	5	A
Linking Course Master of Science in Psychology (main subject Theoretical and Experimental Psychology)	5	A
Linking Course Master of Science in Social Work and Social Welfare Studies	6	A
Preparatory Course Master of Science in Psychology (main subject Clinical Psychology)	6	A
Preparatory Course Master of Science in Psychology (main subject Personnel Management and Industrial Psychology)	6	A
Preparatory Course Master of Science in Psychology (main subject Teacher Education and Training)	6	A
Preparatory Course Master of Science in Psychology (main subject Theoretical and Experimental Psychology)	6	A

Teaching languages

Dutch

Keywords

research methods, data analysis

Position of the course

This course contributes to the following competence areas concerning Bachelor in Psychology:

- B.1.3. Have insight into the specific nature of psychological science (theorizing, modelling, information gathering, analyzing and concluding) and insight into scientific practice.
- B.2.2. Identify international psychological research, judge its added scientific value and use it.
- B.2.3. Critically apply methods and research/design techniques of psychological sciences
- B.2.6. Interpret, report and assess the results of existing/one's own initial

- psychological research or design.
- B.2.8. Be aware of academic integrity.
- B.3.2. Come to conclusions on the basis of scholarly knowledge for abstract and concrete psychological questions.

Contents

In this course the following topics are discussed:

- A general overview of empirical research: research in practice: design, measurement and analysis;

Methodological and data-analytical aspects are handled, illustrated with case studies from research practice. The following topics are discussed:

- Analysis of observational and quasi-experimental data and the linear model:
 - Sampling;
 - Research methods: surveys, quasi-experimental designs;
 - Data-analytical techniques: linear regression, anova, logistic regression;
 - Confounding and moderation;
- Scale development, principal components analysis and exploratory factor analysis;
- Practical aspects of data analysis: data collection, data screening, data input, reporting results.

Initial competences

This course builds on Statistics II.

Final competences

- 1 To define, to prepare and to carry out a research question
- 2 To choose from a multitude of research approaches and techniques
- 3 To analyse and to interpret research results and to relate them to the original research question
- 4 To report and to present research and research results
- 5 To design and to evaluate research

Conditions for credit contract

Access to this course unit via a credit contract is determined after successful competences assessment

Conditions for exam contract

This course unit cannot be taken via an exam contract

Teaching methods

Lecture, seminar: coached exercises, seminar: practical PC room classes

Extra information on the teaching methods

- Lectures on the nature and the application possibilities of the above mentioned methods and techniques for data-analysis.
- Workshops and computer exercises in which students are given the opportunity to practice the newly acquired methods and techniques (under supervision and in subgroups) .

Learning materials and price

Cost: 20 EUR

- Syllabus (available on Minerva)
- Exercises (available on Minerva)

no course material available in English for exchange students

References

- Agresti, A. (2007). An Introduction to Categorical Data Analysis (2nd edition). Hoboken, New Jersey: John Wiley & sons.
- Bartholomew, D.J., Steele F., Moustaki, I., Galbraith, J.I. (2008). Analysis of multivariate social science data (2nd edition). Boca Raton: Chapman & Hall/CRC.
- Kline, R.B. (2009). Becoming a Behavioral Science Researcher: A guide to producing research that matters. New York: Guildford Press.
- Kutner, M.H., Nachtsheim, C.J., Neter, J., & Li, W. (2004). Applied Linear Statistical Models (5th edition). McGraw-Hill.

Course content-related study coaching

By appointment.

Evaluation methods

end-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period

Written examination with open questions, written examination with multiple choice questions, open book examination

Examination methods in case of periodic evaluation during the second examination period

Written examination with open questions, written examination with multiple choice questions,
open book examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation

not applicable

Calculation of the examination mark

Students who eschew periodic and/or permanent evaluations for the course unit
concerned are given a non-deliberative final quotation.