

Modules offered in summer term

Biological and Neuroscientific Psychology

Biological Psychology II (Bachelor, 2. Semester, Module I)	3
Neuroscientific Psychology II (Bachelor, 4. Semester, Module O)	4
Neuroscientific Psychology I (Master, 2. Semester, Module G)	5
Advanced Neuropsychology II (Bachelor, 6. Semester, Module R)	6

Differential Psychology and Psychological Testing

Differential and Personality Psychology II (Bachelor, 2. Semester, Module K)	7
Introduction to Psychological Assessment I (Bachelor, 2. Semester, Module E)	8
Advanced Test Theory and Development (Master, 2. Semester, Module B)	9
Psychological Testing and Assessment (Bachelor, 4. Semester, Module F)	10

Developmental Psychology

Developmental Psychology (Bachelor, 4. Semester, Module J)	11
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Clinical Psychology

Introduction to Clinical Psychology (Bachelor, 4. Semester, Module N)	12
Abnormal Psychology I (Master, 2. Semester, Module F)	13

Cognitive Psychology

Experimental Psychology I: Perception and Thinking (Bachelor, 2. Semester, Module G)	14
Applied Cognitive Psychology I (Master, 2. Semester, Module E)	15

Statistics and Research Methods

Quantitative Methods II (Bachelor, 2. Semester, Module B2)	16
Quantitative Methods and Evaluation: Computerized Analysis (Master, 2. Semester, Module A)	17
Quantitative Methods and Evaluation II (Master, 2. Semester, Module A)	18
Practical Course in Experimental Research II (Bachelor, 4. Semester, Module D)	19
Research Methods (Bachelor, 2. Semester, Module C)	20
Participation in Research (Master, 4. Semester, Module C)	21

Theses

Bachelor Thesis	22
Master Thesis	22

Biological and Neuroscientific Psychology

Biological Psychology II (Bachelor, 2. Semester, Module I)

Course format: Lecture

ECTS: 4

Language: German

Requirements: German or English level C1 recommended

Exam: English oral exam possible

Content: Research methods including structural and functional neuroanatomy (computer, magnetic resonance, functional magnetic resonance, and positron emission tomography, electroencephalography; evoked potentials; magnetoencephalography). Experimental and clinical approaches

Material: Comparable English textbooks available

Contact: Prof. Dr. Bellebaum; christian.bellebaum@hhu.de

Neuroscientific Psychology II (Bachelor, 4. Semester, Module O)

Course format: Lecture

ECTS: 4

Language: German

Requirements: German or English level C1 recommended; Basic knowledge of the central nervous system and brain behavior relationships (senses, motor actions etc.)

Exam: English oral exam possible

Content: Overview on cognitive neuroscience topics: neural correlates of perception, attention, memory etc.

Material: Comparable English textbooks available

Contact: Prof. Dr. Bellebaum; christian.bellebaum@hhu.de

Neuroscientific Psychology I (Master, 2. Semester, Module G)

Course format: Seminar

ECTS: 4

Language: German, English

Requirements: Only for Master students

Exam: Written exam (English oral exam possible)

Content: Current results in the field of cognitive neuroscience, architecture and neuronal bases of conscious and unconscious processes in human and non-human animals, research methods in Comparative Psychology, quantitative and qualitative approaches to experiential and behavioral research including measurement and manipulation of brain activity

Contact: Prof. Dr. Kalenscher; office.comparative@hhu.de

Advanced Neuropsychology II (Bachelor, 6. Semester, Module R)

Course format: Practical course

ECTS: 4

Language: German, English (depending on teacher availability)

Requirements: Only for Bachelor students

Exam: Work sample and/or written and/or oral exam (during summer term; English possible)

Content: Research methods in humans and animals: brain stimulation, functional neuroimaging, evoked potentials, biofeedback, pupillometry, neuropsychological testing, behavioral neuroscience in rodents.

Contact: Prof. Dr. Kalenscher/ Maurice Zech; maurice-philipp.zech@hhu.de

Differential Psychology and Psychological Testing

Differential and Personality Psychology II (Bachelor, 2. Semester, Module K)

Course format: Lecture

ECTS: 4

Language: German

Requirements: German or English level C1 recommended

Exam: English oral exam

Content: History, foundations, and paradigms of personality psychology; individual differences; traits vs. states; data collection methods; factor analysis; cluster analysis; the Big Five; intelligence; nature vs. nurture

Material: English textbook available

Contact: Prof. Dr. Musch; jochen.musch@hhu.de

Introduction to Psychological Assessment I (Bachelor, 2. Semester, Module E)

Course format: Lecture

ECTS: 4

Language: German

Requirements: German or English level C1

Exam: English oral exam

Content: Goals and foundations of psychological measurement; methods of psychological testing and assessment; objectivity; reliability; validity; Cohen's Kappa; Cronbach's alpha; moderator and suppressor variables; classical test theory; item response theory (Rasch, Birnbaum); scale levels; speed vs. power tests

Material: English textbook available

Contact: Prof. Dr. Musch; jochen.musch@hhu.de

Advanced Test Theory and Development (Master, 2. Semester, Module B)

Course format: Seminar

ECTS: 4

Language: German

Requirements: German level C1

Exam: German written exam

Content: Decision-making, heuristics and biases, cognitive illusions, psychological testing and assessment, scale development, implicit association test, game theory, social dilemmas, personnel selection, fairness, social desirability, multiple-choice-tests

Contact: Prof. Dr. Musch; jochen.musch@hhu.de

Psychological Testing and Assessment (Bachelor, 4. Semester, Module F)

Course format: Seminar

ECTS: 4

Language: German

Requirements: German level C1

Exam: Written exam or oral exam or term paper

Content: Applications of psychological assessment; DIN 33430; personality and achievement tests; behavior analysis; clinical interviews

Contact: Prof. Dr. Musch; jochen.musch@hhu.de

Developmental Psychology

Developmental Psychology (Bachelor, 4. Semester, Module J)

Course format: Lecture

ECTS: 8

Language: German

Requirements: None

Exam: English oral exam, German written exam possible

Content: Theories and concepts; methods in developmental psychology; development in childhood, adolescence, and adulthood; development of specific functions (motor behavior; memory, perception; emotion; language; cognition; etc.); biological bases of development; studies with animals; pathological development; current research topics

Material: English textbook available

Contact: Prof. Dr. Bayen; sekretariat-bayen@hhu.de

Clinical Psychology

Introduction to Clinical Psychology (Bachelor, 4. Semester, Module N)

Course format: Lecture

ECTS: 8

Language: German

Requirements: None

Exam: English oral exam, German written exam possible

Content: History of Clinical Psychology; common paradigms and approaches in Clinical Psychology; epidemiology; etiological and pathogenetic factors and models for psychological disorders; diagnosis and treatment of psychological disorders; basic principles of psychotherapy with a focus on cognitive-behavioral methods

Material: Comparable English textbooks available

Contact: Prof. Dr. Becker; sbecker@hhu.de

Abnormal Psychology I (Master, 2. Semester, Module F)

Course format: Seminar

ECTS: 4

Language: German

Requirements: None

Exam: Graded report or presentation (English possible)

Content: In-depth insights in to specific topics and problems in clinical psychology and psychotherapy; topics vary each year depending on the lecturers

Material: Comparable English textbooks available

Contact: Prof. Dr. Becker; sbecker@hhu.de

Cognitive Psychology

Experimental Psychology I: Perception and Thinking (Bachelor, 2. Semester, Module G)

Course format: Lecture

ECTS: 8

Language: German

Requirements: None

Exam: English oral exam

Content: Perception and Thinking: Visual perception (physiology; psychophysics; spatial frequency and contrast; object perception; color perception; perception of space and distance; movement perception; attention; scene perception); auditory perception (physiology; psychophysics; sound source location; perception of complex sounds; auditory scene perception); perception of music; perception of speech; somatosensory perception; olfactory perception; gustatory perception. Problem solving; expertise; creativity; hypothesis testing; judgement; decision-making; inductive and deductive reasoning; human rationality

Material: English textbook available

Contact: Prof. Dr. Buchner; axel.buchner@hhu.de

Applied Cognitive Psychology I (Master, 2. Semester, Module E)

Course format: Seminar

ECTS: 4

Language: German

Requirements: None

Exam: Written report (English possible)

Content: Critical discussion of research findings concerning perception, attention, learning, memory, and decision-making. Application of these findings/theories in eyewitness memory and advertisement principles

Material: English original literature available

Contact: Prof. Dr. Bell; raoul.bell@hhu.de

Statistics and Research Methods

Quantitative Methods II (Bachelor, 2. Semester, Module B2)

Course format: Lecture

ECTS: 6

Language: German

Requirements: Descriptive statistics, probabilities, binomial distribution, confidence intervals, one-sample hypotheses tests

Exam: English oral exam, German written exam possible

Content: Independent and dependent-samples t tests; statistical power; analysis of variance (one-factorial; multi-factorial; repeated-measures ANOVA); correlation; simple linear regression; non-parametric tests

Material: English textbook available

Contact: Prof. Dr. Bayen/Dr. Schaper; marie.schaper@hhu.de

Quantitative Methods and Evaluation: Computerized Analysis (Master, 2. Semester, Module A)

Course format: Seminar

ECTS: 4

Language: German

Requirements: Descriptive statistics, probabilities, binomial distribution, confidence intervals, one-sample and two-sample hypotheses tests, correlation, simple regression, two-way ANOVA with and without repeated measurement, experimental design, computer-assisted data analysis (t tests, two-way ANOVA)

Exam: Work sample (English possible)

Content: Implementation of computer-assisted data analysis using different software packages: multivariate methods, parameter estimation, model fit

Material: English textbook available

Contact: Prof. Dr. Bayen/Dr. Schaper; marie.schaper@hhu.de

Quantitative Methods and Evaluation II (Master, 2. Semester, Module A)

Course format: Lecture

ECTS: 4

Language: German

Requirements: Descriptive statistics, probabilities, binomial distribution, confidence intervals, one-sample and two-sample hypotheses tests, correlation, simple regression, two-way ANOVA with and without repeated measurement, experimental design

Exam: English oral exam only about this part

Content: Program evaluation (assessing the need for a program, program theory, measuring program outcomes, assessing program impact, social context of evaluation)

Material: English textbook available

Contact: Prof. Dr. Bayen; sekretariat-bayen@hhu.de

Practical Course in Experimental Research II (Bachelor, 4. Semester, Module D)

Course format: Practical Course

ECTS: 3

Language: German, English (depending on teacher availability)

Requirements: advanced statistics, i.e., correlation, simple regression, two-sample hypotheses tests, two-way ANOVA with and without repeated measurement, in some courses also non-parametric statistics. Experimental design. Computer-assisted data analyses

Exam: Graded report (English possible)

Content: Planning, conducting, analyzing, and reporting psychological experiments

Material: English class available

Contact: Prof. Dr. Zimmermann/ Sandra Tyralla; eckart.zimmermann@hhu.de

Research Methods (Bachelor, 2. Semester, Module C)

Course format: Seminar

ECTS: 3

Language: German

Requirements: German level C1

Exam: German written or oral exam

Content: Seminar in research methods: Literature search; generating and testing hypotheses; experimental design; data collection; overview of data analytical techniques; research ethics; evaluation of empirical research; ways to present empirical research

Contact: Prof. Dr. Jocham; gerhard.jocham@hhu.de

Participation in Research (Master, 4. Semester, Module C)

Course format: Project Module

ECTS: 11

Language: German or English (depending on research group)

Requirements: Only for Master students; Knowledge in data analysis, research design, the topic of the report

Exam: Attendance (flexible time)

Contact: All research groups

Bachelor Thesis

Course format: Report

ECTS: 2

Language: German or English (depending on research group)

Requirements: Only for Bachelor students; Knowledge in data analysis, research design, the topic of the report

Exam: Graded report (flexible time; English possible)

Contact: All research groups

Master Thesis

Course format: Report

ECTS: 30

Language: German or English (depending on research group)

Requirements: Only for Master students; Knowledge in data analysis, research design, the topic of the report

Exam: Graded report (flexible time; English possible)

Contact: All research groups