

First year courses

## **Research Master Specialisation Neuropsychology year 1**

Faculty of Psychology and Neuroscience

### **Brain Damage**

#### **Full course description**

Much of what we know about cognitive and affective functions and processes comes from close observation of patients with acquired damage to the central nervous system. This course reviews mechanisms underlying the brain-behavior relationships that form the basis of neuropsychological dysfunctions in persons who suffer from acquired brain damage across the lifespan. Perceptual and cognitive dysfunctions after focal or diffuse cortical and subcortical lesions and/or in connection fiber tracts are discussed together with the neurocognitive assessment procedures that are commonly used to identify such deficits, including disorders of memory, praxis, language, visual spatial abilities, and executive functions. Students are introduced to the fields of Behavioral Neurology and Neuropsychology and will work on central questions such as: What do different neurological pathologies entailing functional and/or structural brain changes tell us about the brain-behavior relationship? The intended learning goals are: (1) acquisition of knowledge about the causes and neurobiological effects of acquired brain lesions, (2) acquaintance with the etiology and taxonomy of common neurological and neuropsychological syndromes, and (3) critical reflection of the consequences of brain lesions for diagnostics and treatment in clinical settings. This knowledge and reflection are essential for understanding the principles of neuropsychological rehabilitation, which can be used to support or even improve residual function after acquired brain damage and can ameliorate the life quality of neurological patients.

#### **Course objectives**

Students will be able to understand:

functional brain anatomy, cerebral vascularisation, neurophysiology of brain repair, neurological diseases, stroke, epilepsy, traumatic brain injury, alcohol-induced brain dysfunction, Korsakoff's disease, cognitive control, neuropsychological syndromes, brain plasticity, history of neuropsychology, neuropsychological assessment, cognitive rehabilitation.

#### **Prerequisites**

Bachelor's level knowledge of the hierarchical organisation of brain functions, basic brain anatomy and physiology.

PSY4407

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [S.A. Kotz](#)

Teaching methods:

Lecture(s), PBL, Presentations

Assessment methods:

Attendance, Written exam

Keywords:

Neuroanatomy, neurology, history of neuropsychology, neuropsychology acquired brain dysfunction, brain injury, Neuropsychological assessment, rehabilitation, brain plasticity, brain imaging

Faculty of Psychology and Neuroscience

## Behavioural Disorders

### Full course description

The course covers the range of cognitive and behavioural problems that accompany the most common neuropsychiatric and neurological disorders (e.g. schizophrenia, ADHD, autism and acquired brain injuries). The course provides insight into the underlying neurobiological and psychological mechanisms, and it touches on the principle of vulnerability, and protective/risk factors in the aetiology of behavioural disorders.

### Course objectives

You will gain an understanding of the psychological, neurobiological, and epidemiological mechanisms underlying cognitive and biological models of developmental-, psychiatric-, and neurological disorders and neuropsychiatric syndromes.

PSY4408

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [M. Schwartze](#)

Teaching methods:

Lecture(s), PBL

Assessment methods:

Attendance, Written exam

Keywords:

Behavioural disorders, cognitive and biological models, Development, neuropsychiatry, acquired brain injury, neuropsychology, intervention

Faculty of Psychology and Neuroscience

## Basic Cognitive Psychological Skills

### Full course description

This course focuses on the acquisition and training of basic skills required in cognitive performance research. The course is centred around a psychological experiment in which students study the detrimental effects of arousal manipulation (environmental noise) on cognitive processing. Students will learn how to perform a field experiment and will undertake all the various stages that are necessary to acquire and analyse the data and report on the results. Students will be required to recruit a small number of subjects and to administer the test battery according to a pre-defined protocol. The test battery consists of paper and pencil tests that have been presented and discussed in previous courses. After data acquisition, a number of interactive sessions are planned in which students not only learn to explore and analyse their data with SPSS but also learn how to interpret the results. Students conclude the course by writing a journal style paper in APA format describing the experiment. Particular attention will be given to predicting and explaining the results within a theoretical perspective and comparing them with previous findings. An overview of the techniques and tests currently used to evaluate performance in a number of cognitive domains (such as language, perception, attention and executive functions), are also presented to students in this course.

### Course objectives

Students will be able to understand:

- psychological testing;
- data preparation;
- data analysis using multivariate techniques;
- report writing.

PSY4434

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinator:

- [E.B. de Sousa Fernandes Perna](#)

Teaching methods:

Assignment(s), Lecture(s), Skills

Assessment methods:

Attendance, Assignment

Keywords:

Field experiment, applied behavioural testing, data reduction and analysis techniques, report writing  
Faculty of Psychology and Neuroscience

## Applied Statistics I

### Full course description

The course consists of eight units.

In the first four units, students will be given an in-depth training in the following standard statistical methods: factorial ANOVA for between-subject designs, analysis of covariance (ANCOVA), multivariate ANOVA (MANOVA), discriminant analysis and multiple linear regression. Students are assumed to have background knowledge of balanced two-way factorial ANOVA and multiple regression. These methods will be briefly reviewed. The following advanced topics will then be covered: unbalanced factorial designs, contrast analysis, interaction in multiple regression, simple slope analysis, dummy coding, centering covariates, different coding schemes, collinearity and residuals checks and data transformation.

The second half of the core course consists of four units, two on repeated measures ANOVA and two on mixed linear regression for repeated measures. The first two units cover classical repeated measures ANOVA for the one- and two-way within-subject design and the split-plot (between x within) design. Special attention is given to: a) the choice between multivariate and univariate data formats and method of analysis, and the sphericity assumption; b) the distinction between the within-subjects and between-subjects part of a split-plot ANOVA, and how to obtain both using regression analysis;

Subsequently, two units are devoted to mixed (multilevel) regression for repeated measures. This starts with a unit on marginal models for repeated measures as an alternative to repeated measures ANOVA in cases of missing data and/or of within-subject covariates. Students are shown the pros and cons of various models for the correlational structure of repeated measures, such as compound symmetry and AR1. The second unit covers the random intercept and random slope model for repeated measures as a method to include individual effects into models for longitudinal data (growth curves) or single trial analyses of lab data (response times, ERP, fMRI). Students learn how this can be combined with e.g. ARMA modelling to distinguish between inter-personal and intra-personal outcome variation.

### Course objectives

Students are able to understand:

- oneway analysis of variance, contrast analysis, unbalanced designs, multivariate analysis of variance, discriminant analysis, linear regression with interaction terms, linear regression with dummy variables, data transformations, simple slope analysis, analysis of covariance
- repeated measures ANOVA for within-subject and split-plot (between x within) designs, mixed (multilevel) linear regression with random effects and autocorrelation, and so-called marginal models;
- Specifically, students are able to choose the correct method of analysis, and specify a statistical model to compare different models and choose the best model (based on checking assumptions, model fit and parsimony on top of plausibility), and to interpret effect estimates and significance tests obtained with that model.

## Prerequisites

Good understanding of descriptive and inferential statistics at the elementary and intermediate level, including t-tests

PSY4162

Period 1

4 Sep 2023

22 Dec 2023

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [J. Schepers](#)

Teaching methods:

Lecture(s), Skills

Assessment methods:

Attendance, Written exam

Keywords:

Univariate analysis of variance, multivariate analysis of variance, regression analysis, Within-subject designs, repeated measures ANOVA, mixed (multilevel) regression, marginal versus random effects models

Faculty of Psychology and Neuroscience

## Arousal and Attention

### Full course description

This course familiarises students with key concepts and controversies in the study of effects of arousal and alertness on attention and cognitive performance, with an emphasis on the role of brain circuitry and neurotransmitters. It is known that human performance fluctuates depending on the state of alertness; when we are sleepy or tired, we are less attentive to events going on around us than when we are fully awake and alert. However, people who are extremely stressed or highly aroused can also have problems in effectively focussing or shifting their focus of attention (e.g. ADHD, anxiety disorders). The mechanisms underlying the relation between arousal, attention and performance have been the subject of extensive research in psychology. Therefore, this course will review current knowledge on subcortical arousal systems, attention networks and the neurobiology of sleep, in addition to a critical discussion of the classical Arousal Theory. Psychopharmacological studies will be presented that illustrate the role of different neurotransmitters in arousal and attention.

### Course objectives

Students will be able to understand:

arousal theory, inverted-U model, Yerkes-Dodson law, cognitive energetic model, additive factors

method, Posner's attentional networks, orienting, Posner's cueing paradigm, Corbetta's model of attentional control, focused attention and the underlying neural mechanisms, alertness, sustained attention, vigilance, noradrenergic locus coeruleus activity, clonidine, signal detection theory, executive attention, prefrontal dopaminergic activity, Borbely's model of sleep regulation, caffeine, neurocognitive theory of insomnia, benzodiazepines, flip-flop mechanism of sleep-wake regulation, antihistamines.

PSY4409

Period 2

30 Oct 2023

22 Dec 2023

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinators:

- [P.R.A. Heckman](#)
- [N.L. Mason](#)

Teaching methods:

Lecture(s), PBL

Assessment methods:

Attendance, Assignment, Final paper

Keywords:

arousal, alertness, attention networks, brainstem arousal systems, sleep-wake regulation

Faculty of Psychology and Neuroscience

## Ageing

### Full course description

This course covers a broad range of topics in the field of cognitive development and ageing. The initial focus is on healthy ageing, to better understand processing changes that may arise in abnormal aging such as in neurodegeneration. Important questions covered will include: What is ageing, why do we age? What neurobiological and cognitive mechanisms determine whether a person ages pathologically, normally, or successfully? Can the ageing process be influenced? To address these questions, students will critically reflect on influential theories, state-of-the-art research, established research methods, and clinical interventions. General themes are physical ageing, neural ageing, cognitive ageing, pathological ageing (mild cognitive impairment, dementia, Parkinson's disease), intervention strategies in ageing (including body/mind), and methodological issues in ageing research.

### Course objectives

Participants will obtain active understanding of:

Physical ageing, evolutionary theories of ageing, neural aging, amyloid cascade hypothesis, temporal lobe dysfunction, frontal lobe dysfunction, subcortical dysfunction, processing-speed theory, white

matter decline, decline of cognitive control, inhibition deficit hypothesis, default-mode network dysfunction, parietal lobe dysfunction, mild cognitive impairment, Alzheimer's disease, vascular dementia and other types of dementia, Parkinson's disease, successful ageing, reserve theories, compensation and intervention, body/mind interventions in ageing and emotional ageing.

PSY4416

Period 2

30 Oct 2023

22 Dec 2023

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [M.P.J. van Boxtel](#)

Teaching methods:

Lecture(s), PBL

Assessment methods:

Attendance, Written exam

Keywords:

physical, neural, Cognitive, and emotional ageing, dementia, Alzheimer's disease, Parkinson's disease, neurodegeneration, intervention, Prevention

Faculty of Psychology and Neuroscience

## Neuropsychological Assessments

### Full course description

Neuropsychological assessment runs parallel to the courses Arousal and Attention and Ageing. The core elements in this skills training are the collection and interpretation of cognitive, emotional and behavioural data in order to support neurological or neuropsychiatric diagnosis. The skills training commences with an introductory lecture covering the principles and interpretation of neuropsychological assessment.

During a 6-week period, students are trained in neuropsychological history taking, observing patient behaviour, cognitive testing and interpreting cognitive and behavioural data. Finally, each student writes a comprehensive neuropsychological report based on a simulated clinical case.

### Course objectives

Students will obtain the basic skills of neuropsychological assessment, i.e. observing, interviewing, cognitive testing, combining and interpreting behavioural and cognitive data and neuropsychological report writing.

### Prerequisites

Introductory knowledge on psychodiagnostics and related psychometrics.

PSY4433

Period 2

30 Oct 2023

22 Dec 2023

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinator:

- [S.J.B. Vos](#)

Teaching methods:

Assignment(s), Paper(s), Patientcontact, Skills, Work in subgroups

Assessment methods:

Attendance, Final paper

Keywords:

Neuropsychological assessment, cognitive disorders, brain disease, brain injury, test taking, interviewing, observations, psychometry

Faculty of Psychology and Neuroscience

## Biopsychology

### Full course description

This course provides an in-depth description of biopsychological concepts of brain function. It will cover elements from functional neuroanatomy, neurophysiology and psychopharmacology as they are applied to brain and behaviour research. The students will first review the macro- and microanatomy of the brain, and also neurochemical and neurobiological mechanisms related to neurotransmission. Special attention will be paid to basic cellular processes leading to disturbances in the brain. The students will discuss questions such as: How do the chemicals in our brain influence neurons? How do they potentially affect the brain and lead to Alzheimer's disease? What is the specific role of second messengers in these processes? Additionally, the students will deal with sexual differentiation and which biological processes determine sexual or gender differences. In the fourth task the students will learn more about the neurobiological changes that lead to addiction.

### Course objectives

Students are able to:

- explain the basic mechanisms of neuronal communication within a neuron and between neurons;
- explain the principles and mechanisms of neurotransmission and receptor binding;
- explain the consequences of receptor activation (metabotropic or ionotropic) on intracellular events, i.e, second messenger signaling cascades;
- explain the biological factors that lead to sexual differentiation and which factors underlie gender identity;
- explain how addiction can be explained on basis of the biological changes in the mesolimbic system. The students will learn that dopamine and endorphins play an essential role. The



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students will learn the concepts of wanting and liking as different properties of addiction, each with a different neuronal substrate;

- write a short research proposal on a biological oriented topic of their choice;
- present a biological topic of their choice to a peer group in an understandable manner.

PSY4411

Period 3

8 Jan 2024

2 Feb 2024

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [P.R.A. Heckman](#)

Teaching methods:

Lecture(s), PBL, Presentation(s)

Assessment methods:

Attendance, Final paper, Presentation

Keywords:

action potentials, second messengers, neurotransmitters, depression, cognition, Alzheimer, neurogenesis

Faculty of Psychology and Neuroscience

## Neuroanatomy

### Full course description

The aim of this practical training is to make you acquainted with the neuroanatomical terminology and to gain insight into the spatial and functional organisation of the brain. It is essential to have a basic knowledge of the brain anatomy when working in the field of neuropsychology or neurobiology. Many specific brain areas can be linked to particular functions. Thus, knowledge of the brain anatomy and its main functions allows direct linkage of specific neurological or psychiatric disorders to particular brain areas. After a short theoretical introduction, you will study whole brains and brain material of mammals at both macroscopical (visual inspection) and microscopical level. The emphasis will be on major brain systems, including the basal ganglia and limbic system.

### Course objectives

Students are able to understand:

- organisation of the brain in particular the limbic system and basal ganglia;
- brain dissection;
- microscopical staining techniques.

PSY4108

Period 3

8 Jan 2024

2 Feb 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [D.L.A. van den Hove](#)

Teaching methods:

Lecture(s), Skills, Work in subgroups

Assessment methods:

Attendance, Written exam

Keywords:

Neuroanatomy, limbic system, basal ganglia

Faculty of Psychology and Neuroscience

## Colloquia

### Full course description

Each specialisation organizes two colloquia, in which senior researchers from Maastricht University or visiting lecturers present their scientific insights. Each colloquium focuses in depth on one of a wide range of topics, with issues transcending the courses and specialisations. Each colloquium lecture will be followed by active discussion, chaired by the lecturer or the host of the guest lecturer. A total of ten colloquia will be offered.

### Course objectives

Students are able to understand:

- key research domains from different specialisations;
- interdisciplinary research.
- Students are able to interact with students from different specialisations.

PSY4100

Period 3

8 Jan 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [R. Schreiber](#)

Teaching methods:

Lecture(s)

Assessment methods:

Attendance

Keywords:

interdisciplinary knowledge

Faculty of Psychology and Neuroscience

## Stress, the Brain and Depression

### Full course description

It has become increasingly clear that stress is one of the most important triggers for several cognitive-affective disorders. For instance, a tremendous amount of biological and cognitive-psychological research has been conducted on the onset and course of stress-related affective disorders like depression. Cognitively oriented psychologists have shown that the chance of developing stress-related depression is enhanced as a result of negative and dysfunctional (stress-inducing) thoughts, whereas biologically oriented psychologists and psychiatrists particularly emphasize the importance of biochemical brain dysfunction. Yet, despite intensive research over the past decades, unidirectional biological and cognitive achievements have not yet produced definitive conclusions about critical psychobiological risk factors involved in stress-related affective disorders like depression. In addition, and contrary to a one-dimensional approach, this course will concentrate on the interaction between stress and (genetic-) brain vulnerability in explaining susceptibility for stress-related affective disorders.

### Course objectives

Students will be able to understand:

- gene-brain mechanisms involved in stress;
- biochemistry of depression;
- interaction between genes, brain, stress and depression.

PSY4417

Period 4

5 Feb 2024

5 Apr 2024

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinator:

- [C.R. Markus](#)

Teaching methods:

Lecture(s), Paper(s), Presentation(s)

Assessment methods:

Attendance, Assignment

Keywords:

stress, genes, brain, depression, psychopharmacology

Faculty of Psychology and Neuroscience

## Executive Control

### Full course description

A key element in the current understanding of behavioural organisation is executive control. At present, a redefinition of related concepts and a rapid expansion of our knowledge are taking place, based on insights from cognitive neuroscience. Based on data from imaging studies, the behavioural and computational models of cognitive mechanisms are being restructured. Throughout the course, emphasis will be on mechanisms of control, such as motor control needed for movement, and cognitive control (or executive function) to bias the selection of action and thoughts to achieve our goals. Various experimental approaches are evaluated and discussed in the light of recent literature. Experts in the field of cognitive and motor control research will present their current work, and students will be able to discuss their own papers and topics with them.

### Course objectives

Students will be able to understand:

motor and cognitive control (executive functions) and brain structures involved in these types of control.

PSY4413

Period 4

5 Feb 2024

5 Apr 2024

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [P. van Ruitenbeek](#)

Teaching methods:

Lecture(s), PBL, Presentation(s)

Assessment methods:

Attendance, Written exam, Participation

Keywords:

motor control, Cognitive Control, executive functions

Faculty of Psychology and Neuroscience

## Applied Statistics II: Capita Selecta A

### Full course description

Theme 1, Period 5&6

Course lecturer: Gerard van Breukelen

Sample size calculation and nested designs: This course provides an introduction to sample size/power calculation for elementary and often encountered research designs in psychology and neuroscience. First, sample size calculation is explained and practiced for comparing two independent samples (e.g. parallel groups or between-subject design) and for comparing two dependent samples (e.g. crossover or within-subject design) on a quantitative dependent variable (outcome). Subsequently, this is extended to a) correlation between two quantitative variables, b) the comparison of two groups on a binary outcome, and c) two-way factorial designs (BS\*BS, WS\*WS, BS\*WS). The opposite effects of a covariate on the sample size needed in randomized and nonrandomized studies are also explained and practiced. Finally, the data analysis and sample size calculation are covered for some popular nested designs, specifically cluster randomized trials and multicenter/multisite trials. Sample size calculations will be done with GPower and possibly some free software for nested designs, and with pencil-and-paper assignments.

Theme 2, Period 6

Course lecturer: Nick Broers

Structural equation modeling: Structural equation modeling (SEM) is an advanced multivariate method that is gaining importance in psychology but still requires special software (such as Lisrel, EQS, AMOS or Mplus). SEM is introduced in two units, starting with causal modelling and mediation analysis in cross-sectional research and then extending to longitudinal research and latent variables (factors). Special attention is given to identifying models, model equivalence, global and local goodness of fit indices, parsimony, model modification and cross-validation. Some concepts from matrix algebra are needed for SEM, and these will be briefly discussed without going into technical detail.

## Course objectives

Students are able to choose the correct formula for computing the sample size for basic and often used research designs, and to compute the sample size with that formula (Theme 1).

Students are able to understand path analysis, structural equation modeling, confirmatory factor analysis, structural models with latent variables, creating and testing SEM models (Theme 2).

## Prerequisites

Good understanding of basic and intermediate statistics, including factorial ANOVA and multiple regression.

PSY4163

Period 5

8 Apr 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinator:

- [J. Schepers](#)

Teaching methods:

Lecture(s), Skills

Assessment methods:

Attendance, Written exam

Keywords:

sample size, power, structural equation modeling, LISREL

Faculty of Psychology and Neuroscience

## **Applied Statistics II: Capita Selecta B**

### **Full course description**

Theme 1, Period 5&6

Course lecturer: Gerard van Breukelen

Sample size calculation and nested designs: This course provides an introduction to sample size/power calculation for elementary and often encountered research designs in psychology and neuroscience. First, sample size calculation is explained and practiced for comparing two independent samples (e.g. parallel groups or between-subject design) and for comparing two dependent samples (e.g. crossover or within-subject design) on a quantitative dependent variable (outcome). Subsequently, this is extended to a) correlation between two quantitative variables, b) the comparison of two groups on a binary outcome, and c) two-way factorial designs (BS\*BS, WS\*WS, BS\*WS). The opposite effects of a covariate on the sample size needed in randomized and nonrandomized studies are also explained and practiced. Finally, the data analysis and sample size calculation are covered for some popular nested designs, specifically cluster randomized trials and multicenter/multisite trials. Sample size calculations will be done with GPower and possibly some free software for nested designs, and with pencil-and-paper assignments.

Theme 3, Period 6

Course Lecturer: Jan Schepers

Resampling methods in statistics: Many modern statistical analyses make use of resampling methods in applications where theoretical statistics cannot readily provide answers for making statistical inferences from the data at hand. This elective provides an introduction to three important resampling methods, bootstrapping, permutation testing and cross-validation, for obtaining measures of accuracy for parameters of a model or for studying model fit. The methods will be practiced using the software R.

### **Course objectives**

- Students are able to choose the correct formula for computing the sample size for basic and often used research designs, and to compute the sample size with that formula (Theme 1).
- Students are able to understand bootstrap sampling, permutation testing, cross-validation, bias, bootstrap confidence interval, bootstrap standard error, prediction error (Theme 3).

### **Prerequisites**

Good understanding of basic and intermediate statistics, including factorial ANOVA and multiple

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regression.

Good working knowledge of R for theme 3: basic programming skills such as for-loops, logical operators, vectors.

PSY4164

Period 5

8 Apr 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinator:

- [J. Schepers](#)

Teaching methods:

Lecture(s), Skills

Assessment methods:

Attendance, Written exam

Keywords:

sample size, power, bootstrapping, permutation test, cross-validation

Faculty of Psychology and Neuroscience

## Human Neuroimaging

### Full course description

This course aims at introducing basic knowledge and principles of functional brain imaging techniques, with a special emphasis on their application in addressing clinically oriented research questions. The workshop comprises three sections.

The first section is a practical introduction into MRI/EEG image processing and statistical analysis, centering on functional MRI and ERPs. During the meeting you will become familiar with the following basic aspects of image analyses: the MR image and its preprocessing; First level statistical analysis (creating colored blobs); Second level analysis, with special emphasis on between subject designs.

The second part of the workshop consists of more theoretical introductions to novel clinically relevant imaging techniques. In three education group meetings you will study at a deeper level some imaging topics that are thought basic and very important for the ability to interpret patient-oriented research. General topics that may be discussed include brain connectivity (structural, functional and effective connectivity), structural imaging techniques (voxel-based morphometry, cortical volume and thickness ...), and image analysis techniques (head motion correction, multiple comparisons correction).

A third section comprises a group assignment. In a small group you get the opportunity to elaborate in more depth an imaging topic that has your interest. Each group will prepare a presentation in which they share their insight and understanding of this topic with the rest of the students.

## Course objectives

Students will be able to understand:

- functional brain imaging techniques and principles;
- data analysis;
- between group experimental designs and its pitfalls;
- available imaging techniques for clinically oriented research.

## Prerequisites

Basic knowledge of brain anatomy, experimental design and statistics.

PSY4435

Period 4

5 Feb 2024

5 Apr 2024

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinators:

- [P. van Ruitenbeek](#)
- [T.W. Boonstra](#)

Teaching methods:

Lecture(s), Skills, Work in subgroups

Assessment methods:

Attendance, Written exam, Presentation

Keywords:

Magnetic Resonance Imaging (MRI), Functional MRI, structural MRI, neuroimaging, data analysis, Brain connectivity

Faculty of Psychology and Neuroscience

## Neuropsychiatric Disorders

### Full course description

This course provides basic and advanced knowledge of neuropsychiatric disorders. Several neuropsychiatric disorders will be extensively discussed from a biopsychosocial perspective. In particular, the focus will be on new knowledge and developments within the neuropsychiatry, related to both research and clinical practice. The course covers main findings, biopsychosocial theories and controversies related to several neuropsychiatric disorders, with an emphasis on brain mechanisms and behavioural and cognitive dysfunction. The course discusses disorders at the interface between neuropsychiatry and cognitive/behavioural neurology. Each tutorial meeting covers another neuropsychiatric disorder, for example Gilles de la Tourette, pediatric delirium, ECT by depression, and anxiety disorders. Specific attention is given to neuropathology related to functional and structural brain imaging, neurochemistry as well as psychosocial factors. In short, this course deals with all major aspects of a number of specific neuropsychiatric disorders,



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including: biopsychosocial theories; neurobiological mechanisms; cognitive and behavioural implications; treatment and research. Students learn to integrate all the previously mentioned aspects of the disorders in order to increase their general knowledge of neuropsychiatry. The tutorial meetings will be led by renowned clinical experts in the field and will provide an excellent learning experience for students who want to focus on working within neuropsychiatry. Students also have to give a group presentation by themselves being related to a neuropsychiatric disorder, from a biopsychosocial perspective.

### Course objectives

- students are able to recognize neuropsychiatric disorders and related biopsychosocial models;
- students are able to identify different biopsychosocial (and cultural) factors being related to a specific neuropsychiatric disorder, and summarize these in a review;
- students are able to interpret the relationships of different factors, including neurobiologic mechanisms, gene environment interactions, behavioural and cognitive problems, neurotransmitters, and neuroimaging, being related to a specific neuropsychiatric disorder;
- students are able to write a review from a biopsychosocial perspective related to a specific neuropsychiatric disorder, including etiology, treatment, implications for clinical practice, and future perspectives.

PSY4414

Period 5

8 Apr 2024

7 Jun 2024

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinators:

- [I.H.G.B. Ramakers](#)
- [W.J. Jansen](#)

Teaching methods:

Lecture(s), Paper(s), Presentation(s), Work in subgroups, PBL

Assessment methods:

Attendance, Final paper, Presentation

Keywords:

neuropsychiatric disorders, brain mechanisms, biological theories, psychosocial theories, Research, treatment

Faculty of Psychology and Neuroscience

## Neuropsychology in Practice: From Test Results to Report and Advice

### Full course description

Students learn to integrate several aspects of a neuropsychological examination. This kind of examination can be used both in clinical settings and in clinical research and contains the following

aspects: interview, clinical impression, test results, rating scales, questionnaires, etc. Learning to interpret and integrate the different aspects will result in a coherent neuropsychological report and conclusion. Tests and theoretical and practical knowledge will be presented in the current skills training to help students achieve the course goals. Note that the major focus of this skills training is not to test a patient or a subject participating in a study, but to interpret the data and to discuss the findings with the patients by means of role playing.

The skills training consists of eight meetings. In the first two meetings, an overview will be presented of the skills needed to form a conclusion about the data acquired by testing a patient or research subject. Furthermore, students will practise performing and interpreting tests, rating scales and questionnaires. The use of normative data, the concept of validity and what to do when a subject's performance is lower, or otherwise deviant from what would be expected, will also be addressed.

Meetings three to eight will be led by clinical experts. Video segments of different patients with a neuropsychological or psychiatric problem (e.g. patients from the departments of psychiatry, neurology and geriatrics) will form the basis of a group discussion and presentations, in which the emphasis will be on the interpretation of patient material.

## Course objectives

- students will practice performing neuropsychological tests, rating scales and questionnaires;
- students will be able to interpret test results and ratings on questionnaires;
- students will be able to translate theoretical knowledge on neuropsychological assessment to application in clinical practice.

PSY4423

Period 5

8 Apr 2024

7 Jun 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinators:

- [C.M. van Heugten](#)
- [C.A.G. Wolfs](#)

Teaching methods:

Assignment(s), Presentation(s), Skills

Assessment methods:

Attendance, Presentation, Participation

Keywords:

clinical neuropsychology, assessment, cognitive dysfunctioning, emotional problems, behavioural problems

Faculty of Psychology and Neuroscience

# Neuropsychological Rehabilitation

## Full course description

The course will address the content of neuropsychological interventions as well as the procedures and designs that can be used for the execution of evidence-based research. Throughout the meetings, the basic premises and 'pitfalls' in this type of research will be elaborated and the possibilities to circumvent these problems by proper choice of approach and design will be discussed. Various research designs will be compared in terms of their strengths and weaknesses (e.g. experimental studies, quasi-experimental designs, intention-to-treat, single case designs, challenge-studies, depletion studies). Various forms of neuropsychological treatments will be discussed and students will receive practical training in rehabilitation principles. Skills will be developed that can be applied in cognitive training and psycho-education. Forms of complex behavioural treatment will also be discussed.

## Course objectives

- students will be able to explain the different neuropsychological treatment methods used in clinical practice;
- students can select and apply an adequate research design for the evaluation of the effects of neuropsychological treatment;
- students are able to design a randomized clinical trial to evaluate the effect of neuropsychological treatment.

PSY4424

Period 5

8 Apr 2024

7 Jun 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinator:

- [C.M. van Heugten](#)

Teaching methods:

Assignment(s), Lecture(s), Presentation(s), Skills

Assessment methods:

Attendance, Participation, Presentation

Keywords:

rehabilitation, treatment, acquired brain damage, effectiveness

Faculty of Psychology and Neuroscience

## Neuropsychopharmacology

## Full course description

This course addresses the influence of drugs upon normal functioning and on disease states. Neurobiological and neurochemical mechanisms are presented with the aim to deepen insight into the various mechanisms of drug action. The course will review major classes of drugs that are used frequently in the treatment of mental disorders and neurological disease, but also other classes of drugs that have side effects on the central nervous system. Other topics in this course are behavioural toxicology, experimental designs used in treatment studies, drugs of abuse and recreational drugs.

## Course objectives

Students will be able to understand neurobiology of drugs and mental disorders.

PSY4415

Period 6

10 Jun 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinator:

- [J.G. Ramaekers](#)

Teaching methods:

PBL

Assessment methods:

Attendance, Final paper, Presentation

Keywords:

drug action, psychopharmacology of CNS disorders, behavioural toxicity

Faculty of Psychology and Neuroscience

## Psychopharmacology

### Full course description

Students will become acquainted with some current topics in psychopharmacology, i.e. mechanisms of medicinal drugs including new avenues, nutritional substances and substance use disorder.

There will be explicit attention to the different perspectives of Psychopharmacology from the tracks in which participating students are residing, ie. Neuropsychology (NP) and Psychopathology (PP).

Some research topics and perspectives in Psychopharmacology:

- Old illicit drugs, new drugs or new targets?
- Addiction
- Basic psychopharmacological mechanisms
- Cognitive enhancement?

## Course objectives

- students are able to understand and remember principles of psychopharmacology and illustrate them using examples of psychopharmacological studies;
- students are able to create a presentation on a topic of psychopharmacology and present (apply) it professionally.

PSY4335

Period 6

10 Jun 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [P. van Ruitenbeek](#)

Teaching methods:

Lecture(s), Presentation(s), Work in subgroups

Assessment methods:

Attendance, Presentation

Keywords:

psychopharmacology

Faculty of Psychology and Neuroscience

## Research Grant Writing Workshop

### Full course description

Research is expensive. Finding appropriate funding sources and writing a convincing grant application is therefore a core competency of scientists. During this workshop, students will learn why and how to apply for research grants and they will be taught academic writing skills. The need for acquiring funding for research, the opportunities for, and availability of grant application funding will be discussed. Students will start by choosing a topic (from a list of topics) and write an abstract on their research idea. Subsequently, they work in teams to discuss individual ideas and decide on a joint research idea that will serve as a basis for writing a full grant proposal during the second-year Research Grant Writing Course with guidance of a mentor (see description of PSY5112). Mentors are researchers from all RM tracks who have experience in applying for different types of grants and will provide students with first-hand knowledge and tips. Students will learn fundamentals of good grant writing, general preparation of the grant application and how to deal with reviewer comments. Ethical issues including feasibility and acceptability of the research, and the role of the local research ethics committee will be discussed.

## Course objectives

- students will acquire skills on general academic writing as well as grant writing
- students will learn about the importance of grant writing for an academic career;
- students will recognize opportunities for funding, ethical aspects of grants and how grants can be acquired;
- students will develop a first outline of a grant proposal with peers.

PSY4114

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinators:

- [S. Köhler](#)
- [R.L.H. Handels](#)

Teaching methods:

Lecture(s), Skills, Assignment(s), Work in subgroups

Assessment methods:

Final paper, Attendance

Keywords:

Funding possibilities, grant applications, academic writing, team science

Faculty of Psychology and Neuroscience

## Psychiatric Epidemiology

### Full course description

The course provides an introduction to the methodologies and analytical strategies of epidemiology as applied to mental health outcomes. The principles and practice of various study types (cohort, case-control, RCT, ecological) will be taught, with emphasis on interpreting associations and possible causality thereof. Consideration will be given to such issues as confounding, bias, and moderation. Further topics to be covered include the use and interpretation of diagnostic studies, the basic principles of analysing dichotomous and time-to-event outcomes, genetic epidemiology, and the use of systematic reviews and meta-analysis for building cumulative knowledge.

### Course objectives

Students will be able to understand:

- different epidemiological study types, including their purpose, advantages and disadvantages;
- calculation and interpretation of effect size and outcome measures for dichotomous and time-to-event outcomes;
- principles of analysing epidemiological studies;
- genetic epidemiology;

- the basic steps of conducting a systematic review and meta-analysis.

PSY4371

Period 6

10 Jun 2024

5 Jul 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [W. Viechtbauer](#)

Teaching methods:

Assignment(s), Lecture(s), Skills, Work in subgroups

Assessment methods:

Attendance, Final paper

Keywords:

Epidemiology, Methodology, statistics, experimental studies, observational studies, diagnostic studies, systematic reviews, meta-analysis

Faculty of Psychology and Neuroscience

## Applied Statistics II: Capita Selecta C

### Full course description

Theme 2, Period 6

Course lecturer: Nick Broers

Structural equation modeling: Structural equation modeling (SEM) is an advanced multivariate method that is gaining importance in psychology but still requires special software (such as Lisrel, EQS, AMOS or Mplus). SEM is introduced in two units, starting with causal modelling and mediation analysis in cross-sectional research and then extending to longitudinal research and latent variables (factors). Special attention is given to identifying models, model equivalence, global and local goodness of fit indices, parsimony, model modification and cross-validation. Some concepts from matrix algebra are needed for SEM, and these will be briefly discussed without going into technical detail.

Theme 3, Period 6

Course Lecturer: Jan Schepers

Resampling methods in statistics: Many modern statistical analyses make use of resampling methods in applications where theoretical statistics cannot readily provide answers for making statistical inferences from the data at hand. This elective provides an introduction to three important resampling methods, bootstrapping, permutation testing and cross-validation, for obtaining measures of accuracy for parameters of a model or for studying model fit. The methods will be practiced using the software R.

## Course objectives

- Students are able to understand path analysis, structural equation modeling, confirmatory factor analysis, structural models with latent variables, creating and testing SEM models (Theme 2).
- Students are able to understand bootstrap sampling, permutation testing, cross-validation, bias, bootstrap confidence interval, bootstrap standard error, prediction error (Theme 3).

## Prerequisites

Good understanding of basic and intermediate statistics, including factorial ANOVA and multiple regression.

Good working knowledge of R for theme 3: basic programming skills such as for-loops, logical operators, vectors.

PSY4165

Period 5

8 Apr 2024

7 Jun 2024

[Print course description](#)

ECTS credits:

2.0

Instruction language:

English

Coordinator:

- [J. Schepers](#)

Teaching methods:

Lecture(s), Skills

Assessment methods:

Attendance, Written exam

Keywords:

structural equation modeling, LISREL, bootstrapping, permutation test, cross-validation

Second year courses

## Research Master Specialisation Neuropsychology year 2

Faculty of Psychology and Neuroscience

## Research Grant Writing Course

### Full course description

Research is expensive. Finding appropriate funding sources and writing a convincing application is therefore a core competency of scientists. In this course, students will apply what they have learned during the Research Grant Writing Workshop (PSY4114) by going through a full grant proposal writing and review process. Students will work together (groups of 4-6 students) to write a joint research proposal as group on their selected topic, including an original research hypothesis, design, methods, motivation and valorization. Students are encouraged to think across boundaries of



different scientific fields. A mentor (senior researcher) will guide students during this writing process. The students will write their proposal in 3 steps, and they will receive feedback from their mentor and peers along the way. The resulting grant proposals will be reviewed by two assessors and presented during a symposium by way of a group-based oral presentation.

## Course objectives

Students are able to:

- review literature;
- formulate a research hypothesis;
- design a innovative research study;
- write a competitive grant proposal;
- present and illustrate a grant proposal at a symposium.

## Prerequisites

This course is a continuation of the Research Grant Writing Workshop (PSY4112).

PSY5112

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinators:

- [S. Köhler](#)
- [R.L.H. Handels](#)

Teaching methods:

Work in subgroups, Skills, Assignment(s)

Assessment methods:

Attendance, Final paper, Presentation

Keywords:

grant proposal, Interdisciplinary, hypothesis, design, methods, research symposium

Faculty of Psychology and Neuroscience

## Cognitive Development

### Full course description

The focus of the course is on cognitive development during childhood and adolescence. Behavioral changes and underlying brain changes will be discussed. The aim is to learn more about scientific views on typical cognitive development and the methodological difficulties in demonstrating these views empirically. Although the focus is on typical development, development is often studied in the context of abnormal development. Examples of topics that are discussed during the course are

general cognitive ability, executive function, brain maturation, cognitive stimulation and training, and cognitive vs socio-emotional development.

## Course objectives

Students will be able to:

- understand and critically evaluate theoretical and methodological issues in studies of cognitive development from childhood to adolescence;
- generate research ideas about and think about solutions to issues relevant in the field of cognitive development.

PSY5411

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinator:

- [E.H.H. Keulers](#)

Teaching methods:

Work in subgroups, Presentations, Assignment(s), Lecture(s)

Assessment methods:

Attendance, Final paper, Presentation

Keywords:

child neuropsychology, individual differences, cognitive and brain development, methodological challenges

Faculty of Psychology and Neuroscience

## Brain, Learning and Memory

### Full course description

There has been a rapid increase in our understanding of the basic mechanisms underlying the consolidation of new information and its subsequent retrieval. Both data from preclinical research in animal models and in preclinical human models and neuroimaging experiments will be used in this course, together with seminal experiments in patients. Recent theories and experimental data illustrate how a multidimensional view of learning and memory can help elucidate the relevant mechanisms in terms of neurobiology, neurochemistry and cognition. The influences of drugs on information processing and memory are also discussed in depth.

### Course objectives

- students are able to remember and understand the role of the hippocampus in memory functions, the role of other limbic structures in learning and memory, the role of

neurotransmitters as drug targets in learning and memory;

- students are able to evaluate the use of various methods (e.g. lesions, animal models, cognitive tasks) in learning and memory research.

PSY5414

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

3.0

Instruction language:

English

Coordinator:

- [P. van Ruitenbeek](#)

Teaching methods:

Assignment(s), Lecture(s), Presentation(s), PBL

Assessment methods:

Attendance, Final paper

Keywords:

prefrontal cortex, hippocampus, limbic system, neurotransmitters, working memory, short-term memory, long-term memory, acquisition, consolidation, retrieval, cognition enhancing drugs

Faculty of Psychology and Neuroscience

## Neuropsychological Assessment in Children

### Full course description

The aim of this workshop is to acquaint students with neuropsychological testing in children and with the interpretation of clinical data in relation to a conceptual model of brain-behaviour relationships. The constructs and assessment of cognitive functions in children will be discussed, with special attention given to methodological aspects of assessment. A number of cognitive tests for children will be presented during the workshop. Models of cognitive psychology will be considered in the context of developmental disorders, including memory, attention, information processing and intelligence. The focus is on test paradigms from the field of child neuropsychology used to probe domain-specific functions, with an emphasis on the need to integrate information from different sources: medical history, radiology, interview, test results, scientific literature, etc.

### Course objectives

Students will be able to:

- understand as well as critically evaluate concepts relevant for neuropsychological assessment (cognitive abilities), assessment methods and test results;
- analyse and interpret neuropsychological assessment data from patient with different syndromes/ difficulties;
- integrate different sources of information in answering diagnostic questions about patient cases and write a clinical report about this.

PSY5431

Period 1

4 Sep 2023

27 Oct 2023

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- F. Dings

Teaching methods:

Assignment(s), Skills, Work in subgroups

Assessment methods:

Attendance, Final paper

Keywords:

Cognitive abilities, multiple disability, neuropsychiatry, specific impairment, neuropsychological assessment/methods

Internships

## Research Internship

Faculty of Psychology and Neuroscience

## Research Proposal

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on AskPsy > Curriculum > Internships.

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Lars Hausfeld, Cognitive Neuroscience (FPN),

Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

Phone: (0) 43 38 84521, 55 Oxfordlaan, Room S.1.018

Email: lars.hausfeld@maastrichtuniversity.nl

- RM Fundamental Neuroscience:

Pilar Martínez, Psychiatry and Neuropsychology (FHML),

Phone: (0)43 38 81042, 40 Universiteitssingel, Room 2.574,

Email: p.martinez@maastrichtuniversity.nl

- RM Neuropsychology:

Michael Schwartz, Neuropsychology and Psychopharmacology (FPN),

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For the clinical part:

Ieke Winkens, Neuropsychology and Psychopharmacology (FPN),

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- RM Clinical Psychology:

Nicole Geschwind, Clinical Psychological Science (FPN),

Phone (043) 38 81487, 40 Universiteitssingel, Room 2.767,

Email: nicole.geschwind@maastrichtuniversity.nl

- RM Drug Development and Neurohealth:

Jacco Briedé, Toxicogenomics,

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Email: j.briede@maastrichtuniversity.nl

## **Course objectives**

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5107

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Internship, research, master's thesis

Faculty of Psychology and Neuroscience

## Research Internship Graded

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on [AskPsy > Curriculum > Internships](#).

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

Lars Hausfeld, Cognitive Neuroscience (FPN),

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Email: lars.hausfeld@maastrichtuniversity.nl

- RM Fundamental Neuroscience:

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- RM Neuropsychology:

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- RM Drug Development and Neurohealth:

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Email: j.briede@maastrichtuniversity.nl

## **Course objectives**

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5120

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

10.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

internship, research, master's thesis

Faculty of Psychology and Neuroscience

## Research Internship Ungraded

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on [AskPsy > Curriculum > Internships](#).

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced



Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

Lars Hausfeld, Cognitive Neuroscience (FPN),

Phone: (0) 43 38 84521, 55 Oxfordlaan, Room S.1.018

Email: lars.hausfeld@maastrichtuniversity.nl

- RM Fundamental Neuroscience:

Pilar Martínez, Psychiatry and Neuropsychology (FHML),

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- RM Neuropsychology:

Michael Schwartze, Neuropsychology and Psychopharmacology (FPN),

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For the clinical part:

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- RM Drug Development and Neurohealth:

Jacco Briedé, Toxicogenomics,

Phone (043)3881094, 50 Universiteitssingel, Room 4.114,

Email: j.briede@maastrichtuniversity.nl

## **Course objectives**

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5121

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

25.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

internship, Research, master's thesis

Faculty of Psychology and Neuroscience

## Research Internship Graded

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on [AskPsy > Curriculum > Internships](#).

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

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Phone: (0) 43 38 84521, 55 Oxfordlaan, Room S.1.018

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For the clinical part:

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- RM Drug Development and Neurohealth:

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Phone (043)3881094, 50 Universiteitssingel, Room 4.114,

Email: j.briede@maastrichtuniversity.nl

## **Course objectives**

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5122

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

10.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Internship, research, master's thesis

Faculty of Psychology and Neuroscience

## Research Internship Ungraded

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on [AskPsy > Curriculum > Internships](#).

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

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- RM Fundamental Neuroscience:

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- RM Neuropsychology:

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For the clinical part:

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- RM Drug Development and Neurohealth:

Jacco Briedé, Toxicogenomics,

Phone (043)3881094, 50 Universiteitssingel, Room 4.114,

Email: j.briede@maastrichtuniversity.nl

## **Course objectives**

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5123

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

9.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Internship, research, master's thesis

## Clinical Internship

Faculty of Psychology and Neuroscience

## Research Proposal Minor's Thesis

### Full course description

Students specialising in Clinical Psychology or in Neuropsychology may choose to conduct a 13-week clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the research internship or separately. Students are required to submit an additional (clinical) research proposal and scientific report (the minor's thesis) based on client/patient-based investigations performed during the clinical internship. The aims of the clinical internship are twofold. Firstly, the internship is meant to provide experience in conducting research in a clinical setting; a small-scale research project culminates in the minor's thesis. Secondly, the internship provides an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and therapeutic interventions. To this end, students will be supervised and assessed by a mental health professional with respect to their clinical skills. A clinical activities report is written and assessed by the faculty supervisor. Both parts (clinical internship and clinical activities report) should be assessed sufficiently to obtain the (15) credits. For Psychopathology and Neuropsychology students who choose to undertake a clinical internship, the clinical internship and minor's thesis will be assigned 20 credits, and the research internship and master's thesis will be assigned 30 credits.

## Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

A detailed guide on clinical internships and the minor's thesis can be found on [www.askpsy.nl](http://www.askpsy.nl) > FPN Research Master Students > Internships. Although it is not a requirement of the research master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes are advised to extend their clinical internship by at least two weeks.

- RM Clinical Psychology Internship Coordinator:

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Room A2.767, Email: [Nicole.geschwind@maastrichtuniversity.nl](mailto:Nicole.geschwind@maastrichtuniversity.nl)

- RM Neuropsychology Internship Coordinator:

Ieke Winkens, Neuropsychology and Psychopharmacology (FPN)

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## Course objectives

Students are able to understand the work environment of the clinical psychologist. This internship gives students the opportunity to practice clinical skills in a real-life setting and to design and conduct a small-scale clinical research project.

## Prerequisites

The clinical internship cannot be started until:

- At least 60 credits have been attained during the programme;
- The above mentioned 60 credits must include the courses Advanced Statistics I and II, and, for students following the Psychopathology specialisation, all Clinical Skills (I-IV) training must be included and for students following the

Neuropsychology specialisation the following skills training courses must have been completed:

- Neuropsychological Assessments;
- Basic Cognitive Psychological Skills;
- Neuropsychology in practice.

Additional requirements can apply to students who did not obtain a Bachelor's degree in Psychology and/or a bachelor's degree at Maastricht University

PSY5108

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

1.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Patientcontact, Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Clinical research, clinical practice, clinical training, Psychodiagnostics, patient contact

Faculty of Psychology and Neuroscience

## Clinical Internship

### Full course description

Students specialising in Clinical Psychology or in Neuropsychology may choose to conduct a 13-week clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the research internship or separately. Students are required to submit an additional (clinical) research proposal and scientific report (the minor's thesis) based on client/patient-based investigations performed during the clinical internship. The aims of the clinical internship are twofold. Firstly, the internship is meant to provide experience in conducting research in a clinical setting; a small-scale research project culminates in the minor's thesis. Secondly, the internship provides an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and therapeutic interventions. To this end, students will be supervised and assessed by a mental health professional with respect to their clinical skills. A clinical activities report is written and assessed by the faculty supervisor. Both parts (clinical internship and clinical activities report) should be assessed sufficiently to obtain the (15) credits. For Psychopathology and Neuropsychology students who choose to undertake a clinical internship, the clinical internship and minor's thesis will be assigned 20 credits, and the research internship and master's thesis will be assigned 30 credits.

A detailed guide on clinical internships and the minor's thesis can be found on [www.askpsy.nl](http://www.askpsy.nl) > FPN Research Master Students > Internships. Although it is not a requirement of the research master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes are advised to extend their clinical internship by at least two weeks.

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## Course objectives

Students are able to understand the work environment of the clinical psychologist. This internship gives students the opportunity to practice clinical skills in a real-life setting and to design and conduct a small-scale clinical research project.

## Prerequisites

The clinical internship cannot be started until:

- At least 60 credits have been attained during the programme;
- The above mentioned 60 credits must include the courses Advanced Statistics I and II, and, for students following the Psychopathology specialisation, all Clinical Skills (I-IV) training must be included and for students following the

Neuropsychology specialisation the following skills training courses must have been completed:

- Neuropsychological Assessments;
- Basic Cognitive Psychological Skills;
- Neuropsychology in practice.

Additional requirements can apply to students who did not obtain a Bachelor's degree in Psychology and/or a bachelor's degree at Maastricht University

PSY5104

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

15.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Patientcontact, Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Clinical research, clinical practice, clinical training, Psychodiagnostics, patient contact  
Faculty of Psychology and Neuroscience

## **Clinical Activities Report**

### **Full course description**

Students specialising in Clinical Psychology or in Neuropsychology may choose to conduct a 13-week clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the research internship or separately. Students are required to submit an additional (clinical) research proposal and scientific report (the minor's thesis) based on client/patient-based investigations performed during the clinical internship. The aims of the clinical internship are twofold. Firstly, the internship is meant to provide experience in conducting research in a clinical setting; a small-scale research project culminates in the minor's thesis. Secondly, the internship provides an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and therapeutic interventions. To this end, students will be supervised and assessed by a mental health professional with respect to their clinical skills. A clinical activities report is written and assessed by the faculty supervisor. Both parts (clinical internship and clinical activities report) should be assessed sufficiently to obtain the (15) credits. For Psychopathology and Neuropsychology students who choose to undertake a clinical internship, the clinical internship and minor's thesis will be assigned 20 credits, and the research internship and master's thesis will be assigned 30 credits.

A detailed guide on clinical internships and the minor's thesis can be found on [www.askpsy.nl](http://www.askpsy.nl) > FPN Research Master Students > Internships. Although it is not a requirement of the research master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes are advised to extend their clinical internship by at least two weeks.

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Room A2.761, Email: [i.winkens@maastrichtuniversity.nl](mailto:i.winkens@maastrichtuniversity.nl)

### **Course objectives**

Students are able to understand the work environment of the clinical psychologist. This internship gives students the opportunity to practice clinical skills in a real-life setting and to design and conduct a small-scale clinical research project.

## Prerequisites

The clinical internship cannot be started until:

- At least 60 credits have been attained during the programme;
- The above mentioned 60 credits must include the courses Advanced Statistics I and II, and, for students following the Psychopathology specialisation, all Clinical Skills (I-IV) training must be included and for students following the

Neuropsychology specialisation the following skills training courses must have been completed:

- Neuropsychological Assessments;
- Basic Cognitive Psychological Skills;
- Neuropsychology in practice.

Additional requirements can apply to students who did not obtain a Bachelor's degree in Psychology and/or a bachelor's degree at Maastricht University

PSY5111

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

0.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Patient contact, Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

clinical research, clinical practice, clinical training, psychodiagnostics, patient contact

Thesis

## Master's Thesis

Faculty of Psychology and Neuroscience

## Master's Thesis

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members

## Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on AskPsy > Curriculum > Internships.

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Lars Hausfeld, Cognitive Neuroscience (FPN),

Phone: (0) 43 38 84521, 55 Oxfordlaan, Room S.1.018

Email: lars.hausfeld@maastrichtuniversity.nl

- RM Fundamental Neuroscience:

Pilar Martínez, Psychiatry and Neuropsychology (FHML),

Phone: (0)43 38 81042, 40 Universiteitssingel, Room 2.574,

Email: p.martinez@maastrichtuniversity.nl

- RM Neuropsychology:

Michael Schwartz, Neuropsychology and Psychopharmacology (FPN),

Phone (043) 38 82802, 40 Universiteitssingel, Room A2.765,

Email: michael.schwartz@maastrichtuniversity.nl

For the clinical part:

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Email: fpn-np-internship@maastrichtuniversity.nl

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Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

Email: nicole.geschwind@maastrichtuniversity.nl

- RM Drug Development and Neurohealth:

Jacco Briedé, Toxicogenomics,

Phone (043)3881094, 50 Universiteitssingel, Room 4.114,

Email: j.briede@maastrichtuniversity.nl

## Course objectives

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5103

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

14.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Internship, research, master's thesis

Faculty of Psychology and Neuroscience

## Master's Thesis

### Full course description

The second part of the second year of the research master's programme is devoted to conducting a research internship. As a result of the many international research contacts that faculty members

## Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

have established, a substantial number of students will conduct their research internship abroad. Students start their internship with the writing of a research proposal. Students finish the master's programme by writing a thesis based on their internship research project.

The internship can be completed at Maastricht University or at external research institutes. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors must be a member of the Faculty of Psychology and Neuroscience (FPN), the Faculty of Health, Medicine and Life Sciences (FHML), or the School of Business and Economics (SBE). Both assessors must hold a PhD degree.

A detailed guide on research internships and the master's thesis can be found on AskPsy > Curriculum > Internships.

Each specialisation has its own internship coordinator:

- RM Cognitive Neuroscience: to be announced

Lars Hausfeld, Cognitive Neuroscience (FPN),

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Email: lars.hausfeld@maastrichtuniversity.nl

- RM Fundamental Neuroscience:

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- RM Neuropsychology:

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- RM Drug Development and Neurohealth:

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Phone (043)3881094, 50 Universiteitssingel, Room 4.114,

Email: j.briede@maastrichtuniversity.nl

## Course objectives

Students are able to understand and apply:

conducting a (supervised) empirical research project and summarising the research and findings in the form of a master's thesis.

## Prerequisites

The research internship cannot be started until:

- at least 60 credits have been attained during the programme;
- the above mentioned 60 credits must include the courses Advanced Statistics I and II.

PSY5109

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

10.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Paper(s), Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Internship, research, master's thesis

## Minor's Thesis

Faculty of Psychology and Neuroscience

## Minor's Thesis

## Full course description

Students specialising in Clinical Psychology or in Neuropsychology may choose to conduct a 13-week clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the research internship or separately. Students are required to submit an additional (clinical) research proposal and scientific report (the minor's thesis) based on client/patient-based investigations performed during the clinical internship. The aims of the clinical internship are twofold. Firstly, the internship is meant to provide experience in conducting research in a clinical setting; a small-scale research project culminates in the minor's thesis. Secondly, the internship provides an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and therapeutic interventions. To this end, students will be supervised and assessed by a mental health professional with respect to their clinical skills. A clinical activities report is written and assessed by the faculty supervisor. Both parts (clinical internship and clinical activities report) should be assessed sufficiently to obtain the (15) credits. For Psychopathology and Neuropsychology students who choose to undertake a clinical internship, the clinical internship and minor's thesis will be assigned 20 credits, and the research internship and master's thesis will be assigned 30 credits.

A detailed guide on clinical internships and the minor's thesis can be found on [www.askpsy.nl](http://www.askpsy.nl) > FPN Research Master Students > Internships. Although it is not a requirement of the research master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes are advised to extend their clinical internship by at least two weeks.

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- RM Neuropsychology Internship Coordinator:

Ieke Winkens, Neuropsychology and Psychopharmacology (FPN)

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Room A2.761, Email: [i.winkens@maastrichtuniversity.nl](mailto:i.winkens@maastrichtuniversity.nl)

## Course objectives

Students are able to understand the work environment of the clinical psychologist. This internship gives students the opportunity to practice clinical skills in a real-life setting and to design and conduct a small-scale clinical research project.

## Prerequisites

The clinical internship cannot be started until:

- At least 60 credits have been attained during the programme;



## Research Master Cognitive and Clinical Neuroscience Specialisation Neuropsychology

• The above mentioned 60 credits must include the courses Advanced Statistics I and II, and, for students following the Psychopathology specialisation, all Clinical Skills (I-IV) training must be included and for students following the

Neuropsychology specialisation the following skills training courses must have been completed:

- Neuropsychological Assessments;
- Basic Cognitive Psychological Skills;
- Neuropsychology in practice.

Additional requirements can apply to students who did not obtain a Bachelor's degree in Psychology and/or a bachelor's degree at Maastricht University

PSY5105

Year

1 Sep 2023

31 Aug 2024

[Print course description](#)

ECTS credits:

4.0

Instruction language:

English

Coordinator:

- [G.C. Kraag](#)

Teaching methods:

Assignment(s), Patientcontact, Research, Skills

Assessment methods:

Attendance, Final paper, Observation, Participation

Keywords:

Clinical research, clinical practice, clinical training, Psychodiagnostics, patient contact