

Practical Training: Basic Cognitive Psychological Skills

Faculty of Psychology and Neuroscience

PSY4066

Period 1:

1 Sep 2025

24 Oct 2025

Credits:

2.0

Coordinator:

L. Kloft - HellerM.C. Marzolla

Teaching methods:

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

Assessment methods:

Final paper

Keywords:

field experiment, applied behavioural testing, data reduction and analysis techniques, report writing

Full course description

This course focuses on the acquisition and training of basic skills required in cognitive performance research. The course is centered 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 analyze 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 analyze 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.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to understand:

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

Mentorship NP

Faculty of Psychology and Neuroscience

PSY4955

Year:

1 Sep 2025

31 Aug 2026

Credits:

0.0

Coordinator:

G.A. ten Hoor

Teaching methods:

Work in subgroups

Keywords:

mentor, personal growth

Full course description

This module aims at making our new Master students feel comfortable at FPN. Our mentors share their experience in academia with the students and by doing so broaden the students' horizon. They guide the students in the transfer from a BA to a MA study level and support the students' adjustments to international, multicultural, interdisciplinary, and PBL based education. Also, the mentors provide preparation, orientation and reflection on study progress, master thesis research project choices, and post-Master career options.

Voluntary but highly recommended meetings are scheduled for the students. The main themes of those meetings are 1) starting at UM, 2) the research project and 3) future career, but the meetings are open for other topics based on student needs.

Upon request, the mentor also engages individually with a student.

There is no assessment for this module. You will only receive feedback on completed assignments.

Course objectives

Intended learning outcomes (ILO's) are tailored to the individual student, but do relate to study and research skills, employability and global citizenship education. Main goals are as described above.

Brain Functioning

Faculty of Psychology and Neuroscience

PSY6065

Period 1:

1 Sep 2025

24 Oct 2025

Credits:

5.0

Coordinator:

R. Aukstulewicz T.W. Boonstra

Teaching methods:

PBL, Lecture(s)

Assessment methods:

Written exam, Attendance

Keywords:

brain and cognition, neuroimaging, neuropsychology, lifespan, neurodegeneration

Full course description

This course covers a broad range of topics in the field of brain functioning. The initial focus is on brain mechanisms, to better understand how the brain is organized to support cognitive functions and the paradigms and neuroimaging methods that are used to study it. This knowledge will then be applied to understand the changes in brain functioning that arise during normal development, during abnormal aging, and in acquired and neurodegenerative brain disorders. Important questions will include: What are the changes in brain structure and function underlying development and ageing? What neurobiological mechanisms determine whether a person develops normally or pathologically? What are the differences in symptomatology resulting from focal and distributed brain damage? To address these questions, students will critically reflect on influential theories, state-of-the-art neuroimaging techniques, established research methods, and clinical interventions. General themes are neural and cognitive ageing, neuropathology (mild cognitive impairment, dementia, traumatic brain injury), and methodological issues in brain research.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students will:

- Obtain knowledge about the history of brain and behavior research, brain structure-function relationship, cognition and the brain, and brain lateralization
- Obtain knowledge about changes in brain functioning related to successful aging including white matter decline, decline of cognitive control, temporal and frontal lobe dysfunction, subcortical dysfunction
- Obtain knowledge and be able to explain different neuroimaging techniques (structural and functional MRI, EEG, resting-state vs task-related designs), brain connectivity, the default-mode network, and executive and attentional networks
- Be able to explain different research designs including methodological issues in neuroimaging and brain research

Neurobehavioural Functioning

Faculty of Psychology and Neuroscience

PSY6066

Period 1:

1 Sep 2025

24 Oct 2025

Credits:

5.0

Coordinator:

C.W.E.M. Quaedflieg

Teaching methods:

PBL, Lecture(s)

Assessment methods:

Written exam, Attendance

Keywords:

Neurobehavioral functioning over the life span (childhood; adolescence; adulthood; continuing into older age), brain functioning, risk factors, individual differences, (neuro)behavioural disorders.

Full course description

The course covers normal and abnormal life span development of (neuro)behavioural functions (e.g., higher-level functioning including attention and executive functioning). Some of the most prevalent (neuro)behavioural disorders (e.g., ADHD, ASD, anxiety and depression, Alzheimer's, Parkinson's disease) will be discussed. Individual differences, risk factors and factors modulating neurobehavioral functioning such as age (both development and decline with old age), neurotransmitters, and stress are also considered. Students will critically read publications and judge on experimental designs, research methods, theories and new developments.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students will:

- obtain knowledge and be able to explain about the most common neurobehavioral disorders;
- be able to differentiate these disorders from a healthy life span development by focusing on brain-behaviour relations;
- be able to distinguish modulating factors;
- learn to apply their knowledge by critically evaluating theoretical positions and case reports.

Practical Training: Neuropsychological Assessment

Faculty of Psychology and Neuroscience

PSY4063

Period 2:

27 Oct 2025

19 Dec 2025

Credits:

2.0

Coordinator:

M.C. Marzolla

Teaching methods:

Skills, Paper(s), Assignment(s), Work in subgroups, Patient contact

Assessment methods:

Final paper, Attendance

Keywords:

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

Full course description

Neuropsychological assessment runs parallel to the courses Optimising Brain and Behaviour and Methods of Assessment. 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.

During a 6-week period, students are trained in neuropsychological history taking, observing patient behaviour, cognitive testing and interpreting cognitive and behavioural data. Several homework assignments concerning neuropsychological report writing will be done, and students will gain experience interviewing a patient. Finally, each student writes a comprehensive neuropsychological report based on a simulated clinical case.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students 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 of psychodiagnostics and related psychometrics.

Optimising Brain and Behaviour

Faculty of Psychology and Neuroscience

PSY6067

Period 2:

27 Oct 2025

19 Dec 2025

Credits:

5.0

Coordinator:

Teaching methods:

PBL, Lecture(s), Presentation(s)

Assessment methods:

Written exam, Attendance, Assignment

Keywords:

brain changes, (neuro)plasticity, ICF model, neuropsychological treatment

Full course description

The brain is capable of changing continuously in terms of function and structure. Brain changes occur because of development and aging, by interaction of the person with environment, but also in response to injury. In this course, we will focus on plasticity in brain/behaviour relationships.

Neuroplasticity has been shown to occur constantly throughout an individual's life. We will discuss neuroplasticity from a fundamental, learning and injury perspective. Spontaneous recovery from brain damage, factors influencing recovery from brain damage and the behavioural aspects of neuroplasticity will be discussed. The neuropsychological treatment of cognitive, emotional and behavioural problems will be discussed. Students will learn about the gap between research (optimizing brain functioning) and clinical practice (optimizing behavioural functioning).

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students will:

- obtain knowledge of brain plasticity, cognitive enhancement, behavioural interventions, recovery, treatment, adaptation;
- be able to understand the difference between experimental studies on brain plasticity and the clinical relevance for daily behavior;
- be able to explain brain-behavior relationship from a biopsychosocial perspective rather than a biomedical perspective;

- learn to critically appraise theoretical models on neuropsychological treatment and case reports.

Methods of Assessment

Faculty of Psychology and Neuroscience

PSY6068

Period 2:

27 Oct 2025

19 Dec 2025

Credits:

5.0

Coordinator:

T.A. Smejka P.P.M. Hurks

Teaching methods:

PBL, Lecture(s)

Assessment methods:

Written exam, Attendance

Keywords:

measurement of behaviour and cognition, psychometrics, neuropsychological assessment, test construction, intra- and interindividual variation, ethics, cultural influences

Full course description

The measurement of behaviour and cognition is a central theme in clinical and experimental neuropsychology. In this course we focus on psychometric properties of our assessment methods and explore the different approaches to measure brain-behaviour relationships relevant for the whole spectrum of neuropsychology. We will discuss examples of assessment methods and procedures used in research and clinical settings to identify pitfalls, limitations and biases in scientific and clinical reasoning. Building on examples from the clinical domains, we will examine how these methods and procedures can be used to support (psycho)diagnostics, prognostic models, and follow-up measurements in developmental trajectories and psychopharmacological interventions. In this module, recent developments in measurement methods and procedures, e.g., online self-assessment, routine outcome measurement and gamification, are discussed, as well as the cultural and ethical aspects of measuring cognition and behaviour.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

The students will:

- obtain knowledge about how psychological tests are constructed;
- be able to recognize the relevance of psychometric properties of assessment methods;
- be able to analyse and evaluate the psychometric properties of diverse assessment methods;
- learn to reflect critically on the assessment outcomes; be able to explain how factors, such as the base rate and the heterogeneity and dependency of symptoms, influence the quality of the assessment outcomes.

Clinical Internship

Faculty of Psychology and Neuroscience

PSY4083

Year:

1 Sep 2025

31 Aug 2026

Credits:

14.0

Coordinator:

I. Winkens

Teaching methods:

Skills, Paper(s), Assignment(s), Patient contact

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

clinical practice, clinical training, psychodiagnostics, diagnostic cycle, patient contact

Full course description

The second part of the one-year master's program (from period 2 onwards) is devoted to arranging and conducting a research project and a clinical internship for students choosing the clinical option. For the clinical internship students conduct a 13-week fulltime (or longer part time) clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the master thesis research project or separately. The aim of the clinical internship is to provide an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and/or therapeutic interventions, and gain knowledge of and experience in the work environment of the clinical (neuro)psychologist. Students conducting a clinical internship are required to receive supervision meetings at Maastricht University and write a clinical activities report (including 2 case reports) as a result of the internship.

A detailed guide on clinical internships can be found on the student-intranet. Although not required to do so by the master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes or plan on working in the field of Adult GGZ or Forensic psychology are advised to fulfil the admission criteria for the GZ-opleiding.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

- students have knowledge about and get experience in the work environment of a clinical psychologist;
- students are able to conduct the diagnostic cycle (under supervision), which may include intake sessions, diagnostic procedures, therapeutic interventions, discuss findings during a team meeting, and write summary reports.

Prerequisites

8 credits from core courses;

Pass for practical Neuropsychological assessment.

Clinical Supervision

Faculty of Psychology and Neuroscience

PSY4084

Year:

1 Sep 2025

31 Aug 2026

Credits:

2.0

Coordinator:

I. Winkens

Teaching methods:

Skills, Paper(s), Assignment(s), Patient contact

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

clinical practice, clinical training, psychodiagnostics, diagnostic cycle, patient contact

Full course description

The second part of the one-year master's program (from period 2 onwards) is devoted to arranging and conducting a research project and a clinical internship for students choosing the clinical option. For the clinical internship students conduct a 13-week fulltime (or longer part time) clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the master thesis research project or separately. The aim of the clinical internship is to provide an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and/or therapeutic interventions, and gain knowledge of and experience in the work environment of the clinical (neuro)psychologist. Students conducting a clinical internship are required to receive supervision meetings at Maastricht University and write a clinical activities report (including 2 case reports) as a result of the internship.

A detailed guide on clinical internships can be found on the student-intranet. Although not required to do so by the master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes or plan on working in the field of Adult GGZ or Forensic psychology are advised to fulfil the admission criteria for the GZ-opleiding.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

- students have knowledge about and get experience in the work environment of a clinical psychologist;
- students are able to conduct the diagnostic cycle (under supervision), which may include intake sessions, diagnostic procedures, therapeutic interventions, discuss findings during a team meeting, and write summary reports.

Prerequisites

8 credits from core courses;

Pass for practical Neuropsychological assessment.

Clinical Activities Report

Faculty of Psychology and Neuroscience

PSY4085

Year:

1 Sep 2025

31 Aug 2026

Credits:

3.0

Coordinator:

I. Winkens

Teaching methods:

Skills, Paper(s), Assignment(s), Patient contact

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

clinical practice, clinical training, psychodiagnostics, diagnostic cycle, patient contact

Full course description

The second part of the one-year master's program (from period 2 onwards) is devoted to arranging and conducting a research project and a clinical internship for students choosing the clinical option. For the clinical internship students conduct a 13-week fulltime (or longer part time) clinical internship in an approved setting. The clinical internship can be conducted in conjunction with the master thesis research project or separately. The aim of the clinical internship is to provide an introduction to the organisation and practice of mental health care, as well as basic experience in clinical diagnosis and/or therapeutic interventions, and gain knowledge of and experience in the work environment of the clinical (neuro)psychologist. Students conducting a clinical internship are required to receive supervision meetings at Maastricht University and write a clinical activities report (including 2 case reports) as a result of the internship.

A detailed guide on clinical internships can be found on the student-intranet. Although not required to do so by the master's programme, students who wish to meet Dutch requirements for admission to advanced clinical training programmes or plan on working in the field of Adult GGZ or Forensic psychology are advised to fulfil the admission criteria for the GZ-opleiding.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

- students have knowledge about and get experience in the work environment of a clinical psychologist;
- students are able to conduct the diagnostic cycle (under supervision), which may include intake sessions, diagnostic procedures, therapeutic interventions, discuss findings during a team meeting, and write summary reports.

Prerequisites

8 credits from core courses;

Pass for practical Neuropsychological assessment.

Research Proposal

Faculty of Psychology and Neuroscience

PSY4080

Year:

1 Sep 2025

31 Aug 2026

Credits:

2.0

Coordinator:

M. Schwartze

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

research project, research, master's thesis

Full course description

The second part of the one-year master's program (from period 3 onwards), is devoted to conducting both a master thesis research project and a clinical internship for students choosing the clinical option.

For the master thesis research project students explore a research issue within their specialisation. Students choosing the clinical option of the Master's degree in Neuropsychology will conduct their master thesis research project in relation to a clinical topic. Conducting a master thesis research project involves 1) writing a research proposal, preparing and planning the research 2) conducting the master thesis research project, 3) analyzing the results of the master thesis research project, and 4) individually writing a master's thesis about the research.

The master thesis research project can be undertaken at the institute where the clinical internship is carried out, Maastricht University, or another university and/or external institution. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors is a staff member at the Faculty of Psychology and Neuroscience (FPN). The other assessor might be an external researcher at, for example, the institute where the student collected the data. One of the assessors must hold a PhD, the other can be a PhD student.

Information about master thesis research projects offered by external institutes or faculty members can be found the student-intranet. This site also provides a detailed guide with practical information

about the criteria for the master thesis research project and the master's thesis.
The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to conduct a supervised empirical research project and summarise the research results in the form of a master's thesis.

Students are able to apply GenAI or LLM's in a correct and transparent manner.

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory courses have been obtained of the modules offered in periods 1 and 2. In addition:

Certain master thesis research projects may require that practical or skills training(s) have been completed

Research Proposal

Faculty of Psychology and Neuroscience

PSY4142

Year:

1 Sep 2025

31 Aug 2026

Credits:

4.5

Coordinator:

G.A. ten Hor

Teaching methods:

Lecture(s), Assignment(s)

Assessment methods:

Final paper

Keywords:

academic skills, professional skills, research skills, methods, statistics, writing, research project

Full course description

In this course, the research proposal is drafted in preparation for the master thesis research project. The course serves to provide students with general skills and a source of information about academic research. The course thereby supports the development of the research proposal and subsequent execution of the master thesis research project via assignments, workshops, and lectures that allow students to practice and develop their professional and academic skills.

The research proposal describes what you will investigate, why it is important, and how you will do the research. The format of a research proposal varies between (sub)fields, but most proposals should contain at least these elements: Cover page, Introduction, Literature Review (incl background, relevance, and research question), Research design and methods, Reference list, and a Timeline/planning. Students discuss the content of the proposal with their master thesis research project supervisors (preferably 2-3 months prior to the official start of the master thesis research project).

This module is not applicable for (the subsample of) students of the Master Neuropsychology that complete a clinical internship.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

Intended learning outcomes (ILO's) are tailored to the individual student and depend on the individual motivations and needs for their master thesis research project. ILO's are related to:

1. The (general) mandatory skills that students followed as part of the assessment in PSY4775.
2. The additional academic skills deemed necessary by master thesis research project supervisor.
3. Additional (online) skills courses and/or experiences that students may have followed or obtained additionally to point 1 and 2 out of interest/personal growth.
4. to produce a scientifically sound research proposal;
5. to adequately prepare for a master thesis research project.

Mandatory ILO's are:

- students know what the criteria/guidelines are for writing a research proposal;
- students know what transparency in science is (including data management, research ethics);
- students recognize ethical aspects of conducting research and are able to complete an ethics application.
- students are familiar with the key concepts of open science including preregistration.
- students know how to use A.I. in a responsible manner.

Additional ILO's (if skills are not yet mastered) are:

- students are able to execute a literature review;
- students are able to use a reference manager;
- students are able to select a research design and corresponding methods for a research project;
- students understand basic statistical techniques;
- students can explain characteristics of academic writing and are able to implement and apply that knowledge to the writing of a research proposal.

(this list is just an example, and will be updated each year, based on student and supervisor needs)

Master's Thesis Research Project Graded

Faculty of Psychology and Neuroscience

PSY4147

Year:

1 Sep 2025

31 Aug 2026

Credits:

6.0

Coordinator:

M. Schwartz

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

research project, research, master's thesis

Full course description

The second part of the one-year master's program (from period 3 onwards), is devoted to conducting both a master thesis research project and a clinical internship for students choosing the clinical option.

For the master thesis research project students explore a research issue within their specialisation. Students choosing the clinical option of the Master's degree in Neuropsychology will conduct their master thesis research project in relation to a clinical topic. Conducting a master thesis research project involves 1) writing a research proposal, preparing and planning the research 2) conducting the master thesis research project, 3) analyzing the results of the master thesis research project, and 4) individually writing a master's thesis about the research.

The master thesis research project can be undertaken at the institute where the clinical internship is carried out, Maastricht University, or another university and/or external institution. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors is a staff member at the Faculty of Psychology and Neuroscience (FPN). The other assessor might be an external researcher at, for example, the institute where the student collected the data. One of the assessors must hold a PhD, the other can be a PhD student.

Information about master thesis research projects offered by external institutes or faculty members can be found the student-intranet. This site also provides a detailed guide with practical information

about the criteria for the master thesis research project and the master's thesis.
The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to conduct a supervised empirical research project and summarise the research results in the form of a master's thesis.

Students are able to apply GenAI or LLM's in a correct and transparent manner.

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory courses have been obtained of the modules offered in periods 1 and 2. In addition:

Certain master thesis research projects may require that practical or skills training(s) have been completed

Master's Thesis Research Project Ungraded

Faculty of Psychology and Neuroscience

PSY4148

Year:

1 Sep 2025

31 Aug 2026

Credits:

3.0

Coordinator:

M. Schwartz

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

research project, research, master's thesis

Full course description

The second part of the one-year master's program (from period 3 onwards), is devoted to conducting both a master thesis research project and a clinical internship for students choosing the clinical option.

For the master thesis research project students explore a research issue within their specialisation. Students choosing the clinical option of the Master's degree in Neuropsychology will conduct their master thesis research project in relation to a clinical topic. Conducting a master thesis research project involves 1) writing a research proposal, preparing and planning the research 2) conducting the master thesis research project, 3) analyzing the results of the master thesis research project, and 4) individually writing a master's thesis about the research.

The master thesis research project can be undertaken at the institute where the clinical internship is carried out, Maastricht University, or another university and/or external institution. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors is a staff member at the Faculty of Psychology and Neuroscience (FPN). The other assessor might be an external researcher at, for example, the institute where the student collected the data. One of the assessors must hold a PhD, the other can be a PhD student.

Information about master thesis research projects offered by external institutes or faculty members can be found the student-intranet. This site also provides a detailed guide with practical information

about the criteria for the master thesis research project and the master's thesis.
The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to conduct a supervised empirical research project and summarise the research results in the form of a master's thesis.

Students are able to apply GenAI or LLM's in a correct and transparent manner.

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory courses have been obtained of the modules offered in periods 1 and 2. In addition:

Certain master thesis research projects may require that practical or skills training(s) have been completed

Master's Thesis Research Project Graded

Faculty of Psychology and Neuroscience

PSY4178

Year:

1 Sep 2025

31 Aug 2026

Credits:

6.0

Coordinator:

G.C. Kraag

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Oral exam, Observation

Keywords:

academic skills, research project, research, research proposal, master's thesis

Full course description

During the second part of the one-year master's program (from period 3 onwards), students conduct a master thesis research project that involves 1) writing of a research proposal, and preparing and planning of the master thesis research project, 2) conducting the master thesis research project, and 3) analyzing the results of the master thesis research project. This work will result in an individually written 4) master's thesis. Students will have to 5) orally defend their thesis.

The master thesis research project can be carried out at Maastricht University, at an external research institute or at other, more practically oriented institutions. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors.

Information about master thesis research projects can be found on the student-intranet.

This module is not applicable for students of the Master Neuropsychology who choose to do an additional clinical internship.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to:

Conduct a supervised empirical research project and summarize this research in a master's thesis.

Apply and use LLM's, like ChatGPT in a correct and transparent manner

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory core courses have been obtained of the modules offered in periods 1 and 2. The research proposal must be assessed as sufficient by both assessors and there must be ethical approval for the master thesis research project before the start of the data collection. In addition: certain master thesis research projects may require that practical or skills training(s) have been completed.

Master's Thesis Research Project Ungraded

Faculty of Psychology and Neuroscience

PSY4179

Year:

1 Sep 2025

31 Aug 2026

Credits:

9.0

Coordinator:

G.C. Kraag

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Oral exam, Observation

Keywords:

academic skills, research project, research, research proposal, master's thesis

Full course description

During the second part of the one-year master's program (from period 3 onwards), students conduct a master thesis research project that involves 1) writing of a research proposal, and preparing and planning of the master thesis research project, 2) conducting the master thesis research project, and 3) analyzing the results of the master thesis research project. This work will result in an individually written 4) master's thesis. Students will have to 5) orally defend their thesis.

The master thesis research project can be carried out at Maastricht University, at an external research institute or at other, more practically oriented institutions. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors.

Information about master thesis research projects can be found on the student-intranet.

This module is not applicable for students of the Master Neuropsychology who choose to do an additional clinical internship.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to:

Conduct a supervised empirical research project and summarize this research in a master's thesis.

Apply and use LLM's, like ChatGPT in a correct and transparent manner

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory core courses have been obtained of the modules offered in periods 1 and 2. The research proposal must be assessed as sufficient by both assessors and there must be ethical approval for the master thesis research project before the start of the data collection. In addition: certain master thesis research projects may require that practical or skills training(s) have been completed.

Professional and Academic Skills

Faculty of Psychology and Neuroscience

PSY4775

Year:

1 Sep 2025

31 Aug 2026

Credits:

0.5

Coordinator:

G.A. ten Hoer

Teaching methods:

Lecture(s), Skills, Assignment(s)

Assessment methods:

Attendance, Assignment

Keywords:

academic skills, research skills, methods, statistics, career skills, writing, peer reviewing, ethics in research

Full course description

In this course, the research proposal is drafted in preparation for the master thesis research project. The course serves to provide students with general skills and a source of information about academic research. The course thereby supports the development of the research proposal and subsequent execution of the master thesis research project via assignments, workshops, and lectures that allow students to practice and develop their professional and academic skills.

The research proposal describes what you will investigate, why it is important, and how you will do the research. The format of a research proposal varies between (sub)fields, but most proposals should contain at least these elements: Cover page, Introduction, Literature Review (incl background, relevance, and research question), Research design and methods, Reference list, and a Timeline/planning. Students discuss the content of the proposal with their research project supervisors (preferably 2-3 months prior to the official start of the research project).

To achieve this, a series of assignments, workshops, and lectures is offered in the 3rd period (four weeks). In addition, students will be encouraged to consider their future career (incl. what their interests are/what career(s) they would like to pursue).

The Professional and Academic Skills course has to be completed within 6 weeks after the start of a students' master thesis research project (so no need to have this finished at the end of period 3). To make sure that students can pass this course when delaying (the start of) their master thesis research project this course is open during the entire academic year. For most students, however, the academic skills course is focused on period 3 (January).

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

Mandatory ILO's are:

- students know what the criteria/guidelines are for writing a research proposal;
- students know what transparency in science is (including data management, research ethics);
- students recognize ethical aspects of conducting research and are able to complete an ethics application.
- students are familiar with the key concepts of open science including preregistration.
- Students know how to use A.I. in a responsible manner.

Additional ILO's (if skills are not yet mastered) are:

- students are able to execute a literature review;
- students are able to use a reference manager;
- students are able to select a research design and corresponding methods for a research project;
- students understand basic statistical techniques;
- students can explain characteristics of academic writing and are able to implement and apply that knowledge to the writing of a research proposal.

(this list is just an example, and will be updated each year, based on student and supervisor needs)

Master's Thesis

Faculty of Psychology and Neuroscience

PSY4091

Year:

1 Sep 2025

31 Aug 2026

Credits:

10.0

Coordinator:

G.C. Kraag

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Oral exam, Observation

Keywords:

academic skills, research project, research, research proposal, master's thesis

Full course description

During the second part of the one-year master's program (from period 3 onwards), students conduct a master thesis research project that involves 1) writing of a research proposal, and preparing and planning of the master thesis research project, 2) conducting the master thesis research project, and 3) analyzing the results of the master thesis research project. This work will result in an individually written 4) master's thesis. Students will have to 5) orally defend their thesis.

The master thesis research project can be carried out at Maastricht University, at an external research institute or at other, more practically oriented institutions. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors.

Information about master thesis research projects can be found on the student-intranet.

This module is not applicable for students of the Master Neuropsychology who choose to do an additional clinical internship.

The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to:

Conduct a supervised empirical research project and summarize this research in a master's thesis.
Apply and use LLM's, like ChatGPT in a correct and transparent manner

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory core courses have been obtained of the modules offered in periods 1 and 2. The research proposal must be assessed as sufficient by both assessors and there must be ethical approval for the master thesis research project before the start of the data collection. In addition: certain master thesis research projects may require that practical or skills training(s) have been completed.

Master's Thesis

Faculty of Psychology and Neuroscience

PSY4149

Year:

1 Sep 2025

31 Aug 2026

Credits:

6.0

Coordinator:

M. Schwartze

Teaching methods:

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

Assessment methods:

Final paper, Participation, Attendance, Observation

Keywords:

research project, research, master's thesis

Full course description

The second part of the one-year master's program (from period 3 onwards), is devoted to conducting both a master thesis research project and a clinical internship for students choosing the clinical option.

For the master thesis research project students explore a research issue within their specialisation. Students choosing the clinical option of the Master's degree in Neuropsychology will conduct their master thesis research project in relation to a clinical topic. Conducting a master thesis research project involves 1) writing a research proposal, preparing and planning the research 2) conducting the master thesis research project, 3) analyzing the results of the master thesis research project, and 4) individually writing a master's thesis about the research.

The master thesis research project can be undertaken at the institute where the clinical internship is carried out, Maastricht University, or another university and/or external institution. In all cases, a student's research proposal and master's thesis will be evaluated by two assessors. At least one of these assessors is a staff member at the Faculty of Psychology and Neuroscience (FPN). The other assessor might be an external researcher at, for example, the institute where the student collected the data. One of the assessors must hold a PhD, the other can be a PhD student.

Information about master thesis research projects offered by external institutes or faculty members can be found the student-intranet. This site also provides a detailed guide with practical information

about the criteria for the master thesis research project and the master's thesis.
The final assessment for this course is a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to conduct a supervised empirical research project and summarise the research results in the form of a master's thesis.

Students are able to apply GenAI or LLM's in a correct and transparent manner.

Prerequisites

The master thesis research project can only be started when at least 8 credits of the compulsory courses have been obtained of the modules offered in periods 1 and 2. In addition:

Certain master thesis research projects may require that practical or skills training(s) have been completed

Coaching for Psychologists

Faculty of Psychology and Neuroscience

PSY9101

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

A. Nübold

Teaching methods:

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

Assessment methods:

Participation, Attendance, Oral exam, Observation

Keywords:

coaching; cognitive, motivational, behavioral techniques; self-help; flexibility; self-reflection; personal development

Full course description

Coaching can be defined as a developmental, tailor-made intervention in which a professional coach utilizes collaborative, reflective, and goal-oriented strategies to facilitate the development and performance of individuals or groups. Coaching puts coachees as learners at the center of the coaching experience, thereby aiming to promote their self-awareness and personal responsibility and unlock their full potential.

In this elective students will learn about the basic principles of coaching and will get to know a variety of cognitive, motivational, and behavioral techniques to help coachees achieve a mutually identified goal. In this elective students will form groups of three: Every student will act as a coach, but will also be coached by a peer, and additionally act as an observer who provides meaningful feedback on the coaching process.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

After this course students are able to:

- explain the basic principles of coaching;

- understand the effects of different coaching techniques;
- independently design a coaching session for a client;
- flexibly and spontaneously apply different coaching tools based on the (changing) needs of a client;
- showcase a professional coaching attitude and apply appropriate communication skills
- reflect on their own strengths and weaknesses in their role as a coach;
- reflect on their progress regarding a goal in their role as a coachee;
- provide meaningful feedback to coaches in their role as an observer.

Introduction to Programming in Python

Faculty of Psychology and Neuroscience

PSY9102

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

J.J.G. van HarenM. Enan

Teaching methods:

Skills, Assignment(s)

Assessment methods:

Participation, Assignment

Keywords:

Programming skills, Python, Algorithms

Full course description

The work of many high-skilled jobs now requires more advanced computer skills than ever before. Skilled professionals ought to be able to use programming to efficiently process and visualize data, without being limited by the tools conventional programs offer. This elective focuses on understanding and solving problems using programming.

You will learn how to think in terms of algorithms, moving from identifying a problem to creating a step-by-step solution (in the form of code). You will learn how to program in Python, a free, open-source, platform-independent, and continuously maintained programming language. Python is a powerful dynamic programming language that is used in a variety of applications and domains. Once you know how to program in Python, it will be much easier for you to learn other – more specialised or more general-purpose – languages (such as Matlab, R, or C).

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

During the elective, students will develop a basic understanding of programming in general and the Python programming language specially.

After this course, students:

- Have a basic understanding of how to program and be able to think in terms of algorithms.

- Have a working knowledge of the Python programming language specifically (data types, variables, operators, control-flow, and loops).
- Are able to write well-commented Python scripts.
- Are able to write functions to automate particular tasks.
- Are able to debug (fix) Python code.
- Are able to understand basics of scientific computing (numpy & matplotlib).

Entering the Job Market: Selection and Training

Faculty of Psychology and Neuroscience

PSY9103

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

F.E.R.M. Nievelstein A.L.T. Walkowiak

Teaching methods:

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

Assessment methods:

Presentation, Attendance, Assignment, Observation

Keywords:

Selection, Training, Assessment Center, Role play, CV, Interviewing

Full course description

In this elective, students will practice with designing an assessment center, with structured interviews and with training design and evaluation. This elective will start with an opening lecture, in which the structure of the elective will be explained and in which they will learn the relevant theoretical background on assessment centers, structured interviews, and trainings. After that, they will read relevant literature on these topics and start to work in small groups on designing an assessment center. In the first group meeting, they will present their assessment centers to each other and receive feedback on it. In the next group meeting, they will practice a structured interview, in which they will do roleplays in which half of them plays the role of the interviewer and the other half the role of the candidates. Halfway through the meeting, they will switch roles. Finally, they will design a training in small groups and conduct this training during the final group meeting. Again, half of them will start as the trainers, and the other half of the group will be the trainees. During this meeting they will also switch roles.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

- Students will get acquainted with assessment centers: they will learn about the procedures and validity of this selection tool;

- Students will practice and improve their interview skills by conducting a structured interview;
- Students will learn theories about training design and practice their skills by designing and evaluating a training;
- Students will improve their employability by learning more about and practicing with selection and training methods.

The global SDGs: From problem to solution

Faculty of Psychology and Neuroscience

PSY9104

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

I. Gatzounis, J.G. Zimmerman, H.M.L. Zimmermann

Teaching methods:

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

Assessment methods:

Participation, Presentation, Attendance, Assessment

Keywords:

Applied psychology, global citizenship, psychological literacy, creative problem solving, social responsibility, change agency

Full course description

Psychologists are invaluable sources of knowledge and allies for global governments in helping them to achieve the 17 Sustainable Development Goals (SDGs), <https://sdgs.un.org/goals>. After all, many of the current global challenges require a deep knowledge of human cognition, motivation, emotion, and behaviour – as well as how to change these. Indeed, humans, and human behaviour, are central to achieving many of the (sub-)SDGs, whether it is a reduction of reliance on fossil energy sources, achieving gender equality, or creating optimal health and wellbeing. In the first half of this elective (week 1-5), you will be introduced to and practice with the PATH model (Problem – Analysis – Test-Help). Using this protocol, you will (a) describe and analyse the psychology behind one of the SDGs, (b) interview members of the target audience and relevant stakeholders working in the field; and (c) come up with a theory- and evidence-based outline of ‘solutions’ in the form of an e-health interventions that enable this SDG to be attained. In the second half of this elective (weeks 6-10), you will make use of open source software to build (components of) your own e-health intervention. Your final (group) report will take the form of a policy brief outlining the need for the intervention and you will give a (group) pitch demonstrating your intervention.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

Upon completing this elective, students are able:

- to apply psychological principles to global/societal problems (SDGs);
- to acquire basic knowledge of the cognitive, motivational, emotional, social, and behavioural factors are at the core of many societal and global challenges;
- to engage in creative problem solving while designing an intervention;
- to reflect on ethical and moral dimensions of an applied psychological problem;
- to integrate perspectives of target populations and stakeholders outside academia;
- to present research and recommendations to a non-specialized audience
- to reflect on their use of AI tools for writing for non-academic audiences
- to develop (components) of an e-health intervention using open source software;
- to work in teams

Clinical Assessment

Faculty of Psychology and Neuroscience

PSY9105

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

A.L. Smitten

Teaching methods:

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

Assessment methods:

Presentation

Keywords:

Clinical reasoning, Screening (protocol), (neuro)psychological assessment, observation, interviewing

Full course description

To be able to treat a client effectively, mental health professionals first need to perform a clinical assessment of the client. This assessment refers to the collection of information and consequently drawing conclusions about the client's symptoms and disorder(s). This collection of information involves learning about the client's skills, abilities, personality characteristics, cognitive and emotional functioning, social context and cultural factors particular to them. We need to question whether the assessment tools we select are reliable, valid and standardised for our client population. Whilst this is an important factor of clinical assessment, even before that, we need to clinically reason which tests to select and how our own clinical reasoning factors into our hypothesis development in the diagnostic process.

The goal of this course is to allow the students to experience practical application of critical thinking and case formulation in clinical assessment. In each tutorial, students will have the opportunity with case studies to practice clinical anamnesis and assessment of differing mental disorders. Students will explore a particular set of assessment tools that focus on attention & memory, anxiety & depression and sensory integration & modulation areas of dysfunction.

This elective is relevant to all students who in the future wish to understand methods and models of clinical reasoning used within the clinical assessment process to assist children, adults, clients,

patients, or employees in being their best self, but maybe especially useful for students without an NP background.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

At the end of this course, students are able to:

- Develop a better understanding of clinical assessment processes;
- Know the cognitive skills required to clinically reason and reflect on your own cognitive processes;
- Develop an understanding and knowledge of various assessment models;
- Develop a formulation plan for a variety of clients based on initial referrals;
- Gain practical use of a variety of assessment tools in the fields of Anxiety, Depression, Attention, Memory, and Sensory Integration;
- Complete a variety of online CPD courses in various areas of clinical practice;
- Evaluate the clinical reasoning process of a clinical assessment;

Negotiation and Mediation

Faculty of Psychology and Neuroscience

PSY9106

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

3.0

Coordinator:

M. IannuzziC.J. Zelihsen

Teaching methods:

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

Assessment methods:

Final paper, Presentation, Attendance, Assignment, Observation

Keywords:

Negotiation, mediation, roleplay

Full course description

In this elective, students will focus on negotiation and mediation skills. These are crucial skills for student's future careers, since they are crucial for, among other things, conflict resolution and creating value in contracts (e.g. in salary negotiations). The elective will start with a lecture to explain the structure of the course and to introduce the topic of negotiation. In this lecture, students will learn about the most important theories and strategies that can be used in negotiations and mediation in different contexts. After the lecture, students will read literature to prepare them to practice their negotiation skills during the tutorials. During the tutorials, we will focus on the Harvard Principles of negotiation, several tools and traps (like biases) that can be used during negotiations and we will discuss individual differences like the roles of gender, culture and personality. Students will also write a 2-page essay on a topic of choice where they can express their personal opinion. The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

- Students will learn about different theories and strategies for negotiation;
- Students will practice their negotiations skills based on the Harvard principles of negotiation;
- Students will be aware of the role of individual differences in Negotiations;
- Students will learn about and practice application of mediation techniques.

Individual Elective

Faculty of Psychology and Neuroscience

PSY9109

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

6.0

Coordinator:

G.A. ten Hoor

Teaching methods:

Assignment(s), Research

Assessment methods:

Final paper

Keywords:

Elective, paper assignment

Full course description

Students work on an assignment (structured literature review, research project) under the supervision of a member of the scientific staff of FPN, resulting in a written product (e.g. literature review, research report). Students take the initiative to locate and arrange a FPN supervisor for the elective. The elective topic, content and format will be determined by mutual agreement between student and supervisor. The assignment should be different/clearly separate from the actions that will be taken in the master thesis research project and the written final product should be a separate product from the master thesis. Students are expected to devote 168 hours to the Individual elective. Students aiming to follow an individual elective should hand in an individual elective proposal, signed by the supervisor, to the coordinator of the individual elective for approval.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

Students are able to:

- identify gaps in their own knowledge and abilities and develop an individual learning plan accordingly.
- communicate scientific literature and/or report on a research project.

Internship Elective

Faculty of Psychology and Neuroscience

PSY9110

Period 3:

5 Jan 2026

30 Jan 2026

Credits:

6.0

Coordinator:

M.D. Schilbach

Teaching methods:

Assignment(s)

Assessment methods:

Final paper

Keywords:

Internship, practical, organisation

Full course description

During the elective internship, psychology master students apply theoretical knowledge to practice and gain relevant practical experience, while working in an institution or company of their own choice. Students are expected to devote 168 hours to the elective internship.

Students can only be enrolled in this elective, if they have found an internship on their own before December 1st. Students can work in a variety of 'settings': e.g., a (mental) health care facility, rehabilitation centers, schools, but also companies, such as HR consultancies. Suitable institutions or companies provide students with the opportunity to gain practical experience, relevant for becoming a psychologist. If student want to obtain ECTS for this practical work, the internship (the institution or company and the content of the internship) has to be approved by the elective internship coordinator before students start working there. Students can only obtain ECTS for work conducted at one (and not multiple) institute(s). During this practical, students need to work under the supervision of a supervisor with an academic degree in psychology or a related field.

Before the start of the practical, students draft a personal development plan (PDP), defining the learning objectives for the internship. In addition, following the internship, students must write a report about their experience. As such, students will get more insight into the work setting(s) of a psychologist and they will gain experience with applying knowledge and skills essential for being a psychologist. Note: this practical experience cannot be used to fulfil the prerequisites regarding the

theoretical background and working experience set for the psychodiagnostics registration (i.e., the BAPD) and/or vLOGO. This module is only relevant for FPN students and not available for exchange students.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

The students:

- obtain insight into the work setting(s) of a psychologist;
- gain experience with applying knowledge and skills essential for being a psychologist
- develop the ability to apply scientific insights to reflect upon practices in the field.

Introduction to Programming in Matlab

Faculty of Psychology and Neuroscience

PSY9107

Period 4:

2 Feb 2026

2 Apr 2026

Credits:

3.0

Coordinator:

G. MarrazzoJ. Haarsma

Teaching methods:

Lecture(s), Skills, Work in subgroups

Assessment methods:

Final paper, Attendance, Assignment

Keywords:

Programming; MATLAB; data analysis.

Full course description

Why learning programming? Because with some basic programming you'll be able to efficiently collect, organize, explore, analyze, interpret and visualize data – any type of data: from clinical and research assessments to behavioral and brain data; text and numbers, financial trends and accounting.

In 4 weeks, you will learn to write simple algorithms to automatize processes, optimize the structure, timing and tidiness of your workflow. At the end of the course, a group project will test your programming and analysis skills.

If you're interested in programming and logic, if you like handling and analyzing data, if you like visualizing data in graphs, this course is for you. Although we'll use some brain data as example (brain waves from EEG), this course was not designed for a specific specialization.

The final assignment is on a topic of your choice: analyse brain, behavioral, marketing, financial data, or anything you'd like.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

The aim of this research elective program is twofold:

1. Develop basic and generalizable programming skills in MATLAB;

2. Test your programming skills by handling and analyzing multidimensional data

Prerequisites

Basic knowledge of neuroimaging methods.

Science Communication

Faculty of Psychology and Neuroscience

PSY9108

Period 4:

2 Feb 2026

2 Apr 2026

Credits:

3.0

Coordinator:

A.E.M. Hendriks

Teaching methods:

PBL, Lecture(s), Skills, Assignment(s)

Assessment methods:

Presentation, Attendance, Assessment

Keywords:

Writing skills, (digital) presentation skills

Full course description

In this 5-week course students will practice presenting science to a broad audience. Students will make a podcast (assignment 1), a blog post (assignment 2) and a video (assignment 3) for a broad audience about a scientific topic. In the course, the students will learn how to target their presentation to the audience, how to organize their presentation, and how to use visual aids. This course will provide students the opportunity to hone their written, visual, and verbal presentation skills. The ability to present complex information in verbal, written and visual form can help to become an effective communicator in the workplace or to engage more with larger audiences.

The students will have 9 meetings within the course (lectures, workshops and PBL meetings). The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

After this course, students are able to:

- write about scientific topics for a broad audience
- summarize complex information
- present scientific information in the format of a podcast and a video
- organize the content of a (digital) presentation

- use visual aids in (digital) presentations

Introduction to Statistics in R

Faculty of Psychology and Neuroscience

PSY9114

Period 4:

2 Feb 2026

2 Apr 2026

Credits:

3.0

Coordinator:

M.D. Hilton

Teaching methods:

Lecture(s), Skills, Work in subgroups

Assessment methods:

Attendance, Assignment

Keywords:

Programming; R; data analysis; statistics

Full course description

R is a programming language frequently used in data science and related fields for data processing, data visualization, and statistical analysis. Working with data in R requires writing code, which makes the data processing steps and analysis procedure transparent and reproducible. The core functions of R are being continually expanded by a community of users who write and maintain packages containing more specialist functions, meaning that R is a flexible tool that is adaptable to a very wide range of data types (e.g., questionnaire responses, neurophysiological data), while a broad spectrum of data analysis approaches are catered for.

Designed for users with little or no experience with R, this course will make use of RStudio, an open-source program that facilitates the writing and storage of R code. Students will be introduced to the basic steps of data processing, visualization, and analysis. These procedures will be taught and practiced in the context of experimental data. Critically, students will be empowered to troubleshoot their own code, by identifying problems in their code and seeking potential solutions in the documentation or online. Students will thereby be able to begin writing their own code independently.

The final assessment for this course is pass or fail - and not a numerical grade between 0,0 and 10,0.

Course objectives

After completing this course, students will be able to:

1. Import and handle data in R
2. Create graphs and run basic statistical analyses in R
3. Document data analysis output from R

Developing E-Health Interventions

Faculty of Psychology and Neuroscience

PSY9115

Period 4:

2 Feb 2026

2 Apr 2026

Credits:

3.0

Coordinator:

H.M.L. Zimmermann

Teaching methods:

Assessment methods:

Keywords:

Full course description

Course objectives

Recommended reading

