Cognitive Neuropsychology (MScRes)

Vrije Universiteit Amsterdam - Faculteit der Psychologie en Pedagogiek - RM Cognitive Neuropsychology - 2013-2014

The Research Master program in Cognitive Neuropsychology is part of the William James Graduate School. The curriculum consists of obligatory courses and elective courses. It is a two year program of total 120 ECTS, 60 ECTS a year.

Goals of the Program

The aim of the Research Master is to provide students with the skills and knowledge to interpret clinical neuropsychological cases in terms of cognitive and neuropsychological theories. Moreover, students learn to use those cases to improve these theories. The curriculum consists of multiple courses in cognitive psychology, clinical neuropsychology, neuroscience, and general academic skills concerning methodology, writing, and modern brain imaging techniques.

Course program 2013-2014 Research Master Cognitive Neuropsychology

Academic calendar 2013-2014

Inhoudsopgave

Research master Cognitive neuropsychology, year 1

First year Research Master Cognitive Neuropsychology consists of compulsory and elective courses.

Opleidingsdelen:

- Research master Cognitive neuropsychology, year 1, Compulsory courses
- Research master Cognitive neuropsychology, year 1, Elective courses 1
- Practical electives

Research master Cognitive neuropsychology, year 1, Compulsory courses

Below the first year compulsory courses.

Vakken:

Naam	Periode	Credits	Code
Advanced Data Analysis	Periode 4	6.0	P_MADVDAT
Aging and Dementia	Periode 1+2, Periode 3+4	6.0	P_MAGINGD
Medical Neuroscience and Neuroanatomy	Periode 1+2	6.0	P_MMEDINN
Programming for Psychologists	Periode 1	6.0	P_MPROPSY
Seminar Attention	Periode 3	6.0	P_MSEMATT

Research master Cognitive neuropsychology, year 1, Elective courses 1

Vakken:

Naam	Periode	Credits	Code
Memory and Memory Disorders	Periode 2	6.0	P_MMEMORY
Neural Models of Cognitive Processes	Periode 2	6.0	P_MNEUMOD
Neuroscience and Education	Periode 2	6.0	P_MNEURED
Thinking and Deciding	Periode 2	6.0	P_MTHIDEC

Practical electives

Programme components:

- Elective package 1
- Research master Cognitive neuropsychology, year 1, Elective package 2

Elective package 1

Opleidingsdelen:

- Compulsory courses Elective package 1
- Elective courses Package 1

Compulsory courses Elective package 1

Vakken:

Naam	Periode	Credits	Code
Practical Skills for Researchers	Periode 4+5+6	18.0	P_MPRACSK

Elective courses Package 1

Courses:

Name	Period	Credits	Code
Human Information Processing	Period 5	6.0	P_MHINFOP
Perception	Period 5	6.0	P_MPERCEP

Elective package 2

Elective package 2 contains a clinical internship and several workshops.
Both are lectured in the Dutch language.

Vakken:

Naam	Periode	Credits	Code
Klinische stage RM Cognitive Neuropsychology	Periode 4+5+6	24.0	P_MKSRMCNP

Research master Cognitive neuropsychology, year 2

Second year Research Master Cognitive Neuropsychology consists of compulsory and elective courses.

Opleidingsdelen:

- Research master Cognitive neuropsychology, year 2, Compulsory courses
- Research master Cognitive neuropsychology, year 2, Elective courses 3

Research master Cognitive neuropsychology, year 2, Compulsory courses

Below the second year compulsory courses.

Vakken:

Naam	Periode	Credits	Code
Brain Imaging	Periode 1	6.0	P_MBRIMAG
Master's Thesis Clinical and Cognitive Neuropsychology	Ac. Jaar (september)	30.0	P_MTHCCNP
Neuropsychological Dysfunctioning in Psychiatric Disorders	Periode 1	6.0	P_MNDPD
Review Paper	Ac. Jaar (september)	6.0	P_MREVPAP
Seminar Cognitive Neuroscience	Periode 2	6.0	P_MSEMCNS

Research master Cognitive neuropsychology, year 2, Elective courses 3

Choose two elective courses (the course Neuroscience and Education will not be lectured in 2012/13). In order to fulfill the requirements of Elective courses, you may attend a component outside the departments of cognitive psychology and clinical neuropsychology of the university. You can select a component from another department at VU University Amsterdam or at another university. Elective course selections should be made in consultation with the coordinator of the programme and approved by both the programme committee of the research master Cognitive Neuropsychology and the department offering the course.

Vakken:

Naam	Periode	Credits	Code
Memory and Memory Disorders	Periode 2	6.0	P_MMEMORY
Neural Models of Cognitive Processes	Periode 2	6.0	P_MNEUMOD
Neuroscience and Education	Periode 2	6.0	P_MNEURED
Thinking and Deciding	Periode 2	6.0	P_MTHIDEC

Other information

Opleidingsdelen:

- MSc Cognitive neurops - Transition rules
- Subscription terms

MSc Cognitive neurops - Transition rules

Courses:

Name	Period	Credits	Code
Klinische stage Cognitive Neuropsychology	Ac. Year (September)	18.0	P_MKLSTCN
Memory and Memory Disorders	Period 2	6.0	P_MMEMORY
Neuroscience and Education	Period 2	6.0	P_MNEURED
Supervisie Cognitive Neuropsychology	Ac. Year (September)	6.0	P_MSUPVCN

Subscription terms

Advanced Data Analysis

Vakcode	P_MADVDAT (815033)
Periode	Periode 4
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. M. Gallucci
Docent(en)	dr. M. Gallucci
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
This course provides a theoretical overview and detailed practical knowledge concerning statistical analyses of social psychological data.

Inhoud vak
After an introduction of the general linear model, with emphasis on estimation of effect sizes and hypothesis testing, the course concentrates on applications of the model, such as analysis of variance, regression analysis, path analysis, and logistic regression. Along with these techniques, issues such as mediation, moderation, and hypothesis testing are considered. The aim of the course is to enable students to plan, execute, and interpret appropriate statistical analyses for applied and experimental research data. Because the application of advanced statistical techniques is central to the course, students will have several assignments to analyze existing data sets, and interpret the results.

Onderwijsvorm
Lectures and tutorials.

Toetsvorm
Exams and assignments.

Literatuur
- Cohen, J., Cohen, P., West, S.G., & Aiken, L.S. (2003), Applied Multiple regression / correlation; analysis for the behavioural sciences (3rd ed.) Hillsdale, NJ: Erlbaum
- Additional material provided during the course.

Aging and Dementia

Vakcode	P_MAGINGD (815181)
Periode	Periode 1+2, Periode 3+4
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	prof. dr. E.J.A. Scherder
Docent(en)	prof. dr. E.J.A. Scherder
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
Provide an advanced course on the neuropathological, cognitive and behavioural consequences of aging and age- related neurodegenerative diseases, in particular dementia.

Inhoud vak
The neuropathology characteristic for aging and various subtypes of dementia will be related to specific functional neuronal circuits. Based on these functional neuronal circuits the clinical outcome in terms of cognitive and behavioural disorders will be explained. Specific attention will be given to the relationship between dementia and motor activity and between dementia and pain experience.

Onderwijsvorm
Plenary lectures, with an emphasis on interaction with the students.

Toetsvorm
Open-end questions.

Literatuur
E. Scherder. Aging and Dementia. Neuropsychology, motor skills and pain. VU Uitgeverij.

Overige informatie
This course will be lectured twice:
- In periode 1+2 the course is sceduled for the Research master Cognitive neuropsychology.
- In period 3+4 the course is sceduled for the Master psychology, trace Clinical neuropsychology.

Students who have followed the course “Neuropsychological Disorders: Development and Course II” (course code 813088) during their Bachelor Psychology at VU University are refused the exam of "Aging and Dementia". Instead, these students are allowed to follow one of the two

courses of the Research master Cognitive Neuropsychology, "Neuropsychological Dysfunctioning in Psychiatric disorders" or "Perception".

Brain Imaging

Vakcode	P_MBRIMAG (815103)
Periode	Periode 1
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. D.J. Heslenfeld
Examinator	dr. D.J. Heslenfeld
Docent(en)	dr. D.J. Heslenfeld
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
The course will treat physical principles, recording apparatus, and practical applications of the four major brain imaging techniques: EEG, MEG, MRI, PET, with an emphasis on EEG and MRI. These techniques will be discussed in detail and live demonstrated. We will visit the various labs, and students will participate in a small research project. This includes recording and analyzing brain imaging data in small supervised groups.

Inhoud vak
The course will treat physical principles, recording apparatus, and practical applications of the four major brain imaging techniques: EEG, MEG, MRI, PET, with an emphasis on EEG and MRI. These techniques will be discussed in detail and live demonstrated. We will visit the various labs, and students will perform a small research project of their own. This includes recording and analyzing your own brain imaging data in small supervised groups.

Onderwijsvorm
Lectures and obligatory practicals.

Toetsvorm
Written examination

Literatuur
- Luck, S (2005) An introduction to the Event -Related Potential Technique Cambridge, MA: MIT Press
- Huettel, S et al (2009) Functional Magnetic Resonance Imaging; (2 nd. ed.) Sunderland, MA: Sinauer;

Human Information Processing

Vakcode	P_MHINFOP (815048)
Periode	Periode 5
Credits	6.0
Voertaal	Engels

Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. S.A. Los
Docent(en)	dr. S.A. Los
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
Introduction to the major theories of human information processing and the experimental methods to test them.

Inhoud vak
In this course you will be familiarized with the literature on human information processing, which aims at understanding the functional architecture of processes intervening stimulus and response. Major themes include: (1) serial versus parallel organization of mental processes (2) continuous versus discrete transmission of information between consecutive processes (3) the controversity of the central bottleneck (4) the role of preparation and executive control. These themes are studied from a functional perspective: The focus is on what these processes are supposed to be doing rather than on where in the brain these processes are implemented. The dominant method in this literature is mental chronometry, which aims at making interfences on the basis of latency measures, such as response times and the onset of event- related brain potentials.

Onderwijsvorm
Lectures.

Toetsvorm
Written examination with open questions.

Literatuur
Journal articles to be specified on Blackboard.

Klinische stage Cogn. Neuropsy

Vakcode	P_MKLSTCN ()
Periode	Ac. Jaar (september)
Credits	18.0
Voertaal	Nederlands
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	drs. A.C. Woldring
Niveau	400

Overige informatie
Dit vak heeft vanaf 2013/14 een ander aantal studiepunten, een andere naam en een andere vakcode. Voor studenten die het vak in 2012/13 of eerder hebben gevolgd, maar niet succesvol hebben afgerond, geldt een overgangsregeling.

Studenten die 2012/13 zijn gestart met de Stage Neuropsychologie (16 EC), maar deze nog niet succesvol hebben afgerond, kunnen de stage in 2013/14 afronden. Studenten moeten zich daarvoor via het studiesecretariaat (dus niet via VUnet) opnieuw voor de Stage

Neuropsychologie (18 EC) en de Supervisie (6 EC) intekenen.

Klinische stage RM Cognitive Neuropsychology

Vakcode	P_MKSRMCNP ()
Periode	Periode 4+5+6
Credits	24.0
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	drs. A.C. Woldring
Docent(en)	F.A. Jonker
Niveau	400

Doel vak
De stage Klinische Neuropsychologie dient ter oriëntatie op het werk van een neuropsycholoog binnen een klinische setting (zoals een bijvoorbeeld een verpleeghuis, revalidatiecentrum, algemeen ziekenhuis/medisch centrum of psychiatrische instelling). De stagiair leert met name het psychodiagnostisch proces in toenemende mate zelfstandig uitvoeren en wordt betrokken bij behandeling/advisering.

Inhoud vak
Oefenen van klinische vaardigheden.

Onderwijsvorm
Kennis onder begeleiding toepassen in de praktijk. De stageperiode neemt minimaal 560 uur in beslag (een halfjaar of meer) en vraagt een ruime tijdsinvestering. De afdeling ondersteunt naar vermogen het vinden van een stageplaats, maar de student heeft een eigen verantwoordelijkheid in het welslagen van het zoekproces. De plaats moet voldoen aan de door de afdeling gestelde eisen. Neem dus altijd contact op met de stagecoördinator.
Naast de stage dienen de volgende werkgroepen gevolgd te worden:
- 4 Supervisie bijeenkomsten (contactpersoon M. van Lieshout)
- 4 werkgroepen Neuropsychologische gesprekvoering (contactpersoon F. Jonker)
- Hoorcolleges behorende bij het vak Practical Skills for Researchers (contactpersoon L. Eggermont)

Toetsvorm
- Midterm tests behorende bijhet vak Practical Skills for Researchers (contactpersoon L. Eggermont).
- Beoordeling stage door Ans Woldring in overleg met stagebegeleider.

Literatuur
S.C.M. van Esch en J.J.S van de Kreeke Recepten voor een goed gesprek – deel 1. SMPVU Amsterdam, 2007.

Vereiste voorkennis

Hiervoor gelden strikte richtlijnen te vinden op de website: www.vu.nl/nl/Images/Voorwaarden_klinisch_traject_CNP_web2013_tcm9-314881.pdf

Overige informatie
Dit vak kan meetellen voor de Basisaantekening Psychodiagnostiek.
Daarnaast moeten voor de voor de Basisaantekening Psychodiagnostiek ook

drie casussen worden beschreven.

Master's Thesis Clinical and Cognitive Neuropsychology

Vakcode	P_MTHCCNP (815105)
Periode	Ac. Jaar (september)
Credits	30.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. R.J. Godijn
Niveau	500

Doel vak
To actively conduct experimental research in cognitive (neuro)psychology and report the results of this independent study in the master's thesis.

Inhoud vak
Students choose a topic in line with their personal interests in cognitive (neuro)psychology. Research fot the master thesis can be conducted at the departments of Cognitive Psychology of Clinical Neuropsycholgoy, an external research organization (eg., TNO), a company, or an (international) university other than the VU University.

A specific research question, hypotheses and testable predictions are formulated and reported to the department. Approval of this research proposal bij the internal supervisor is required prior to the start of the study. The internatl supervisor is a person from the academic staff of the departments of Cognitive Psychology of Clinical Neuropsychology who may be accompanied by an external supervisor if the research is performed outside the department.

The research performed by the students provides the basis for the master's thesis. The master's thesis is written in journal article style and shoudl be written at al level appropriate for submission to an academic journal.

Toetsvorm
The thesis is evaluated on the basis of the quality of the student's master thesis and the quality of student's performance during the research. Students are expected to present their project in the style of a conference talk to the staff or at a formal conference. The internal supervisor and the head of the depertment grades the thesis according to eight generally acknowledged scientific criteria.

Literatuur
Not applicable.

Overige informatie
Students are expected to have attended at least 10 colloquia before they can receive their thesis grade. They have to hand in the filled out colloquium card to the coordinator of the Wiliam James Graduate School.

Medical Neuroscience and Neuroanatomy

Vakcode	P_MMEDINN (815124)

Periode	Periode 1+2
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	prof. dr. E.J.A. Scherder
Examinator	prof. dr. E.J.A. Scherder
Docent(en)	prof. dr. E.J.A. Scherder
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
This course provides the medical background in neurology and anatomy for clinical applications of neuroscience. Key fields covered by this course are the structure, functions and dysfunctions of:
- the human brain, with special focus on
- the central versus the peripheral nervous system
- the brainstem, the spinal cord
- vasculature, blood flow and cerebrospinal fluid circulation
- autonomic, neuroendocrine, and regulatory functions
- higher neural functions
After completing the course the student is supposed to have the knowledge and the skills to examine the functions and diagnose dysfunctions in the central and peripheral nervous system.

Onderwijsvorm
Lectures and practical assignments

Toetsvorm
Acquired knowledge and skills of the student will be tested by means of:
- Exam (open questions)
- Satisfactory completion of the practical anatomical sessions.
Partial grades are only valid during the study year in which the grade has been achieved.

Literatuur
Neuroanatomy through Clinical cases. Author: Hal Blumenfeld. Second Edition. Publisher: Sinauer. ISBN978-0-87893-058-6.

Memory and Memory Disorders

Vakcode	P_MMEMORY (815102)
Periode	Periode 2
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. R.J. Godijn
Docent(en)	dr. R.J. Godijn
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
The course aims to give students an overview of memory at the cognitive and neurophysiological level, and to give students the background to interpret memory disorders in patients with brain damage.

Inhoud vak
The course focuses on various approaches in the study of human memory and memory disorders. We will discuss working memory, encoding-retrieval interactions, interference and forgetting implicit memory, and the brain substrate of memory. We will also discuss clinical testing of memory, and memory loss after local brain damage, dementia, and other conditions.

Onderwijsvorm
12 two- hour lectures and workshops, assignments and oral presentations.

Toetsvorm
Exam, assignments, and presentation.

Literatuur
Various papers, to be anounced via Blackboard.

Overige informatie
This course will be lectured once every two years; the course will be NOT be lectured in 2013-14, but will be lectured in 2014/15.

Neural Models of Cognitive Processes

Vakcode	P_MNEUMOD (815051)
Periode	Periode 2
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. M. Meeter
Docent(en)	W. Kruijne
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
Computational models are an important feature in cognitive neuroscience. When used appropriately, they allow for the integration of findings from a wide range of experiments, as well as detailed predictions. As opposed to many theories, they are rich in detail and allow for a mechanistic view on how the brain operates.

In this course, you will:
-> Learn about how models can enrich the field of cognitive neuroscience
-> Gain insight into different types of models, their strengths and weaknesses
-> Obtain in-depth knowledge about several specific models
-> Get hands-on experience with a variety of models

Inhoud vak

The course starts with a general introduction on models within the field of cognitive neuroscience, and getting familiar with the software used in the practical sessions. Then, you will learn about some prototypical neural models, and their applications within (and beyond) your field. The practical sessions will have you explore the inner workings of these models, by means of exercises and essay questions.

In the second half of the course, you will learn about a wider variety of models, with different levels of abstraction. Furthermore, you will dive into (and present) articles where models, inspired by the prototypical ones discussed in the lectures, have been applied in cognitive neuroscience.

Onderwijsvorm
Lectures and discussion, computer tutorial and practicals, one oral presentation.

Toetsvorm
Grades are based on a weighted average of performance on a final exam, the oral presentation and the practical sessions.

Literatuur
articles, tutorials and other reading material on blackboard

Overige informatie
Period: 2 (in 13-14, not in 14-15)

Neuropsychological Dysfunctioning in Psychiatric Disorders

Vakcode	P_MNDPD ()
Periode	Periode 1
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. C.M. Licht
Docent(en)	prof. dr. A.C. Krabbendam, M. van Lieshout MSc, T.S. Schweizer, drs. J.C. Wijmans
Lesmethode(n)	Hoorcollege
Niveau	500

Doel vak
Understanding potential factors underlying neuropsychological dysfunctioning in different psychiatric disorders by looking at the neuroanatomical, neuroendocrine, and/or neuropharmacological basis. Obtaining knowledge of neuroscientific and behavioural interventions restoring psychological functioning.

Inhoud vak
Studying psychiatric disorders is a great way to investigate (neuro) psychological functioning, in particular cognitive functions, since neuropsychological dysfunctioning is often seen in neuropsychiatric disorders and each disorder has its specific problems. Both psychiatry and (neuro)psychology benefit from research in this area: on the one hand investigating neuropsychological dysfunctioning can be very useful for (further) diagnostic purposes and might bring some

intelligibility in the often heterogeneous character of many mental disorders. On the other hand, it can enlarge our knowledge of the brain regions involved in different psychiatric disorders and in specific cognitive disturbances.
The course consists of a series of lectures. Each lecture addresses a specific psychiatric disorder (such as eating disorders, Schizophrenia, or Bipolar Disorder) and discusses the neuropsychological problems seen in this disorder. Neuropsychological dysfunctioning will be related to its neural correlates and various kinds of neuroendocrine and neuropharmacological imbalances. In addition, neuroscientific and behaviouralinterventions to restore the balance will be discussed.
Basic knowledge of cognitive neuropsychology and neuropharmacology is required.

Neuroscience and Education

Vakcode	P_MNEURED ()
Periode	Periode 2
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	prof. dr. A.C. Krabbendam
Docent(en)	drs. A.M. Boschloo, prof. dr. A.C. Krabbendam
Lesmethode(n)	Hoorcollege

Doel vak
The aim of the course Neuroscience and Education is to provide students with the knowledge and skills necessary to evaluate and conduct research at the interface between neuroscience and education.

Inhoud vak
Many scientists, policymakers and teachers share the belief that knowledge of the brain is relevant to educational practice. Yet, implementing neuroscientific findings in the classroom is by no means straightforward. This course will focus on the interdisciplinary knowledge and skills needed to integrate neuroscientific and educational approaches and to translate neuroscientific research to educational practice. Students will learn how to integrate diverse methodological approaches, ranging from the highly controlled laboratory experiments typical to the cognitive neuroscience approach, to the qualitative approaches used in the social sciences. During the whole course, students are encouraged to critically reflect on the current enthusiasm for a brain-based education. In this context, the course will specifically discuss the proliferation of neuromyths and the ethical issues arising from the neuroeducational approach.

Onderwijsvorm
Lectures and tutorials

Toetsvorm
Written exam with open-end questions (50%); research proposal (50%).

Literatuur
A selection of relevant articles, to be announced.

Overige informatie
This course will be lectured once every two years; the course will be NOT be lectured in 2013-14, but will be lectured in 2014-15.

Perception

Vakcode	P_MPERCEP (815047)
Periode	Periode 5
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. W. Donk
Docent(en)	dr. W. Donk
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
To familiarize students with various approaches to studying perception.

Inhoud vak
Introduction to the fundamental principles of perception. Physiological, psychophysical and cognitive approaches to visual, auditory and tactile perception are treated. Is perception purely a registration of the outside world? Which processes and representations underlie conscious and unconscious perception? What methods can we use to find out?

Onderwijsvorm
Lectures, literature study

Toetsvorm
Written examination: open end questions

Literatuur
Goldstein, E.B. Sensation and Perception. 8th Edition. London: Wadsworth.
Selected readings (to be announced in class)

Practical Skills for Researchers

Vakcode	P_MPRACSK ()
Periode	Periode 4+5+6
Credits	18.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. S.A. Los
Docent(en)	dr. S.A. Los, dr. J.B. Deijen
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
Make students familiar with methodological issues in cognitive neuropsychology and provide them with necessary practical skills and experience regarding the conduct of research, writing, and presenting.

Inhoud vak
The course aims at teaching students general skills needed for doing research in cognitive neuropsychology. In lectures students will be familiarized with the principles underlying all phases of the research process in cognitive neuropsychology. This includes hypothesis forming, design planning, neuropsychological testing, and writing. Students will practice this knowledge in a research internship at the departments Cognitive Psychology or Clinical Neuropsychology. After completing their internship, students will disseminate the results both in a research report and an oral presentation.

Onderwijsvorm
Lectures and practical.

Toetsvorm
Midterm tests (15%), internship (20%), writing samples (50%), and presentations (15%).

Literatuur
Book chapters, will be made available on Blackboard.

Programming for Psychologists

Vakcode	P_MPROPSY (815120)
Periode	Periode 1
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. D.B.B. Schreij
Docent(en)	dr. D.B.B. Schreij
Lesmethode(n)	Hoorcollege, Practicum
Niveau	400

Doel vak
Acquire programming skills and use them to build your own experiments. Learn the intricacies of experimental design.

Inhoud vak
You will learn how to design psychological experiments and how to implement these using the OpenSesame software package and the Python programming language. Although you will mainly be working with OpenSesame, which is specificly designed for constructing experiments, this course will also address general programming principles that will facilitate the learning of other programming languages in the future. We will furthermore look at how to efficiently design behavioral experiments, with the focus on randomization procedures, how to present visual and auditory stimuli, and on how to record responses of participants.

Onderwijsvorm
6 x 1 hour lecture, 12 x 4 hours practicals (compulsory), assignments (twice a week).

Toetsvorm
Of the 12 assignments, at least 8 need to be marked 6 or higher. At the end there will be an exam consisting of essay questions and programming assignments. You are allowed to bring your book and any other material.

Literatuur
Online documentation.

Review Paper

Vakcode	P_MREVPAP (815104)
Periode	Ac. Jaar (september)
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. R.J. Godijn
Docent(en)	dr. R.J. Godijn
Lesmethode(n)	Hoorcollege
Niveau	500

Doel vak
To write a current literature review that covers an open issue in clinical or cognitive (neuro)psychology.

Onderwijsvorm
Students will be individually monitored and instructed by their supervisor in writing a literature review.
Further guidelines are given on the blackboard site 'Master Thesis Cognitive Neuropsychology'

Seminar Attention

Vakcode	P_MSEMATT (815100)
Periode	Periode 3
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	prof. dr. J.L. Theeuwes
Docent(en)	prof. dr. J.L. Theeuwes
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
To learn how to interpret and analyze theories and findings on attention and eye-movements. Learn how to set up experiments. Learn how to present and to write an essay.

Inhoud vak
The format of the seminar will be a discussion of one or two target articles, and student presentations, each week. Target articles for each week will be "classic" articles representing early and/or important studies on a specific topic or recent new papers in attention and eye movements. For the presentations, each student has to present the main findings of the target article for that week and is required to find a recent paper on the topic covered by the target article. Students have to prepare a 20 minute oral presentation in Microsoft Powerpoint. The rest of the class will be spent discussing the target articles and their relationship to the presented papers. Each student will give two presentations. The presentation will determine 30% of the course grade for each student. The target papers will be available on the course website and accessible via blackboard. One week after the last class, each student will submit a final paper (up to 8 pages, 12 pt. font, double spaced) on one of the topics covered in class. The paper will consist of a brief review of (at least) 6 research papers (including those already covered on that topic in class) and a proposal for a new experiment. The paper will be worth 40%. Each class all students have to turn in a sheet of paper with a short question/remark about one of the papers discussed during that class (30% of the grade). Students will receive an introduction into the arts of oral presenting and of writing an essay as a preparation to the assignments.

Onderwijsvorm
Lectures and practical assignments.

Toetsvorm
Student presentation (30%), and writing a paper (40%) and sheet of paper with a short question/remark about one of the papers discussed (30%). Students are required to be present during all meetings. Attending the class is required.

Literatuur
Articles.

Seminar Cognitive Neuroscience

Vakcode	P_MSEMCNS (815098)
Periode	Periode 2
Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. A.V. Belopolskiy
Docent(en)	dr. A.V. Belopolskiy
Lesmethode(n)	Hoorcollege
Niveau	500

Doel vak
To extend students' knowledge in the field of cognitive and clinical neuroscience.

Inhoud vak
Over the last two decennia, scientific research in the field of cognitive neuroscience has led to fundamental new insights in the

relation between brain function and behavior. Research is ongoing, and in many cases, the latest insights have not yet traversed their ways down into the regular textbooks. This seminar offers students the possibility to discuss state of the art research. The latest insights into topics such as working memory, multisensory perception, and the mirror neuron system will be covered. The seminar will also cover important questions regarding legal and ethical aspects of cognitive and clinical neuroscience research.

Onderwijsvorm
Lectures, literature study, oral presentations and discussions.

Toetsvorm
Oral presentation, contribution to discussion, and a review paper.

Literatuur
Research papers to be announced.

Overige informatie
The requirement to participate is the completion of the basic Cognitive Neuroscience and Neuropsychology course. Alternatively, students may study the required literature by self- study. You need to contact the professor of Seminar Cognitive Neuroscience beforehand. Before you can enter the Seminar, you will need to pass an oral exam with the professor. Note that it is your own responsibility to contact the professor, study the literature and make an appointment for the oral exam.

Supervisie Cognitive Neuropsychology

Vakcode	P_MSUPVCN ()
Periode	Ac. Jaar (september)
Credits	6.0
Voertaal	Nederlands
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	drs. A.C. Woldring
Lesmethode(n)	Hoorcollege, Werkcollege
Niveau	400

Overige informatie
Dit vak wordt vanaf 2013/14 niet meer aangeboden. Voor studenten die het vak in 2012/13 of eerder hebben gevolgd, maar niet succesvol hebben afgerond, geldt een overgangsregeling.

Studenten die 2012/13 zijn gestart met de Stage Neuropsychologie (18 EC), met bijbehorende Supervisie, maar deze nog niet succesvol hebben afgerond, kunnen de stage in 2013/14 afronden. Studenten moeten zich daarvoor via het studiesecretariaat opnieuw voor de Stage Neuropsychologie (16 EC) en de Supervisie (6 EC) intekenen.

Thinking and Deciding

Vakcode	P_MTHIDEC (815049)
Periode	Periode 2

Credits	6.0
Voertaal	Engels
Faculteit	Faculteit der Psychologie en Pedagogiek
Coördinator	dr. M. Meeter
Docent(en)	L. Zwaan
Lesmethode(n)	Hoorcollege
Niveau	400

Doel vak
Explaining and providing understanding of theories, research methods and practical aspects about human judgment, rational thinking, dilemmas and choices.

Inhoud vak
Why do we make certain decisions? What is rational thinking, and what keeps us from it? How can we improve our thinking and decision processes? How do we reason and choose in uncertain (risk) situations? What is the influence of (moral) beliefs and emotions?

Onderwijsvorm
Lectures, literature study, oral presentations and discussion.

Toetsvorm
Oral presentation, contribution to discussion, and a review paper.

Literatuur
A selection of articles and book chapters.