Appendix A Teaching outcomes of the degree programme Behavioural and Cognitive Neurosciences (art. 1.3)

The general purpose of the masters program is reflected in the following list of qualifications to be achieved by the graduates of the program.

Learni	ng outcomes of the BCN research Master program	Dublin descriptors
Studer	nts have acquired	Knowledge and
a.	a broad overview of important contemporary issues in the area of behaviour, cognition, and neurosciences.	Understanding Students have demonstrated
b. c.	specialized knowledge in one of the three subfields of behaviour, cognition or neurosciences. understanding of the need for multidisciplinary approaches	knowledge and understanding that is founded upon and extends
d.	and appreciation of the complexity of the brain.	and/or enhances that typically associated with Bachelor's level, and provides a basis or
e.	experience with modern techniques and research approaches.	opportunity for originality in developing and/or applying
f. g.	knowledge of experimental designs and statistical models. a positive critical attitude in the evaluation of scientific results,	ideas, often within a research context.
	views and concepts.	
	nts have demonstrated the ability	Applying knowledge and
h.	specialised knowledge in one of the three subfields of behaviour, cognition or neurosciences.	understanding Students can apply their
i.	understanding of the need for multidisciplinary approaches, appreciation of the complexity of the brain.	knowledge and understanding, and problem-
j.	the capacity to listen to and understand approaches in the other fields, such that they develop a broader, integrated view	solving abilities in new or unfamiliar environments
	to the complex problems emerging.	within broader (or
k.	experience with modern techniques and research approaches.	multidisciplinary) contexts related to their field of study.
l. m.	knowledge of experimental designs and statistical models. a positive critical attitude in the evaluation of scientific results,	
	views and concepts	
Studer to	nts have demonstrated the ability	Applying knowledge and understanding
n.	to conduct scientific research, taking into account the limitations of the information and scientific problems in behavior, cognition and neuroscience.	Students can apply their knowledge and judgments.
0.	to obtain an overview of the core issues in a scientific area in a short period of time	
p.	to reflect on the social and ethical responsibilities linked to the application of their knowledge and judgements.	
Studer	nts have demonstrated the ability	Communication
q.	to present scientific research, taking into account the limitations of their conclusions.	Students can communicate their conclusions, and the knowledge and rationale underpinning these, to
		specialist and non-specialist audiences clearly and

			unambiguously.
	Studen	ts have demonstrated	Learning skills
	r.	the skills required for further study in a largely self-directed or	Students have the learning
		autonomous manner	skills to allow them to
ī		to have a efficient time management.	continue to study in a
	t.	to recognize the need for, and an ability to engage in, ongoing learning.	manner that may be largely self-directed or autonomous.
	u.	to have an understanding of the requirements for a	
		successful scientific career and the ability to judge whether he/she fulfils these requirements.	
	v.	to have acquired a general work orientation that is required	
	٧.	for membership in a research team, contributing to collective goods, effective time management, and participation in a research network.	

Appendix B Specializations of the degree programme (art. 2.2)

The programme comprises three tracks of which one is followed by the student.
- Animal and Human Behaviour
- Cognitive Neuroscience and Cognitive Modelling

- Molecular and Clinical Neurosciences

Appendix C Content of degree programme (art. 2.3)

The degree programme consists of:

1. Overall Programme

Module	ECTS	entry requirements	assessment	practical
Introduction Course	4	-	lectures, assignments	no
Track specific modules	20	-	see 2	see 2
Integrative Themes	3		lectures, assignments	no
Minor thesis	30	-	technical and/or laboratory	yes
			skills, written report, oral	
			presentation	
Colloquium	3	-	oral presentation	no
Track specific module, other $track^*$	5	-	see 2	see 2
Optional modules**	10	传 蒙	- 黄黄	**
Essay	4	-		
Major thesis	40	Minor thesis	technical and/or laboratory	yes
			skills, written report, oral	
			presentation	
Symposium	1	Major thesis	oral presentation	no

 $^{^{*}}$. Students in the second year choose a minimum of one track specific module that belongs to one of the other two tracks, i.e. the track that they have not chosen in the first year.

2. Track specific modules:

B-track (20 ECTS)

Module	ECTS	entry requirements	Assessment	practical
Timing of behaviour	5	-	presentation, assignment	no
Function and evolution of behaviour	5	-	exam, assignment	no
The neuroendocrine basis of behaviour	5	-	paper, assignment	yes
Individuality of behaviour	5	-	exam, presentation	no

C-track (20 ECTS)

Module	ECTS	entry requirements	Assessment	practical
Models of Cognition	5	-	paper, assignment	no
Functional Neuroscience	5	-	exam, assignment	yes
elective module***	5	***	张 曼曼	张 恭恭
Methodology	5	-	exam, assignment	no

^{***.} Module from the "elective modules C-track" list. Students from the C-track choose one of these modules.

N-track (20 ECTS)

Module	ECTS	entry requirements1	Assessment	Practical
Functional Neuroscience	5	-	exam, assignment	yes
Pathology of the nervous system	5	-	exam, assignment	no
Molecular and Cellular Neuroscience	5	-	exam, assignment	yes
Stem cell and glia biology	5	-	exam, assignment	yes

^{**.} Modules from the list in appendix D. Students in the second year choose two of these modules.

3. Elective modules C-track

Module	ECTS	Entry requirements	Assessment	practical
Computational Cognitive Modeling	5	-	exam, assignment	yes
Cognitive Neuropsychiatry	5	-	exam	no
Neurolinguistics	5	-	exam, assignment	no
Molecular and Cellular Neuroscience	5	-	exam, assignment	yes
Learning and Memory	5	-	exam, assignment	no

Appendix D Optional modules (art. 2.4)

The following list presents optional modules. They are divided into four categories.

- I. All track specific modules within the degree programme (see appendix C)
- II. BCN core-modules. These modules are especially designed for BCN. BCN ensures that these modules do not interfere with other modules offered by the degree programme. The following list presents the BCN core-modules.

Module	ECTS	entry requirements	Assessment	practical
Behavioural pharmacology	5	-	exam, presentation	no
Neuroanatomy	5	-	written exam, oral	yes
			presentation	
Evolutionary psychology	5	-	oral presentation, essay	no
Philosophy of neuroscience	5	-	essay	no
Neurobiology of anxiety and empathy	5	-	exam, assignment	no

III. BCN approved modules. No approval is needed for selecting these courses as optional course. However, BCN cannot guarantee that theses courses do not interfere with the other modules offered. It is the student's responsibility to ensure that the selected modules do not interfere. Modules can be chosen from different departments, as presented in the following lists.

1. Modules organised by the Faculty of Mathematics and Natural Sciences

Module	ECTS	entry requirements	Assessment	practical
Selforganisation, Cognition and Social	5	-	exam, assignment	yes
Systems				
Laboratory Animal Science	5	-	exam	yes
Language Modelling	5	-	assignment, presentation	yes
Perception	5	-	exam, presentation	yes
User Models	5	-	assignment, essay	yes
Central Nervous System	5	-	exam	no

2. Modules organised by The Faculty of Medical Sciences

module	ECTS	entry requirements	Assessment	practical
Current themes in inflammation and cancer	5	-	exam, presentation	no
CNS development and disease	5	-	exam, assignment	no

3. Modules organised by the faculty of Behavioural and Social Sciences

module	ECTS	entry requirements	Assessment	practical
Cognition, Motivation & Emotion	5	-	paper	no
Experimental Designs and Analysis of Variance	5	-	exam	no
Boundaries of Psychology	5	-	paper	no
Repeated Measures	5	-	exam, paper	no
Memory & Learning	5	-	exam, assignment	no

4. Modules organised by the the Faculty of Arts

module	ECTS	entry requirements	Assessment	practical
Machine Learning	5	-	exam, assignment	yes
Natural Language Processing	5	-	exam, presentation	no

IV: Courses selected by students.

Upon request of the student the Board of Examiners can give permission to follow a course that is not mentioned in category I, II or III.

The request procedure must be started at least 4 weeks before the beginning of the course.

The procedure is started as soon as the Board of Examiners receives a letter in which the permission is requested. In this letter, the student must state the relevance of the selected course for their individual curriculum.

The Board of Examiners will decide on an individual basis if permission is granted. The student will be informed in writing about the decision on their permission within 4 weeks.

Appendix E Entry requirements and compulsory order of examinations (art. 3.2)

1. The following list presents the compulsory order of examinations.

Module
Introduction Course
Track specific modules
Integrative Themes
Minor thesis
Colloquium
Track specific module, other track and Optional modules
Essay
Major thesis

Symposium

2. Upon request of the student the Board of Examiners can dispense with the order of examinations.

Appendix F Admission requirements (art. 4.1)

- 1. Students in possession of an admission permit can be admitted to the Degree programme.
- 2. Students who meet the requirements are provided with an admission permit by the Admission Board.
- 3. An admission permit is only valid for the academic year following the academic year in which the permit is granted.
- 4. There may be other conditions attached to the admission permit. The requirements must be met before the Degree programme has started.
- 5. The admission requirements comprise:
 - a bachelor's degree affiliated to the behavioural, cognitive and/or neurosciences, this will be judged by the Board of Admission;
 - sufficient knowledge of the English language;
 - sufficient knowledge of the relevant sciences;
 - a suitable attitude, motivation and talent to follow the Degree programme.
- 6. The Board of Examiners establishes an Admissions Board that judges the student's fulfilment of the requirements. This Board consists of four members of the Degree programme's Board of Examiners.

 One of the members is appointed as chairperson.
- 7. The decisions of the Admissions Board can be appealed to at the 'College van Beroep voor de Examens'.
- 8. Students apply to the admission procedure by sending in the following documents:
 - a completed application form;
 - a complete curriculum vitae;
 - a document that proves sufficient proficiency in the English language;
 - a survey of the study results attained in academic courses so far;
 - a letter in which the student states why s/he wants to follow this Degree programme in particular (including which track), what his/her expectations and ambitions are;
 - (if desired) results of former research projects, like reports or articles;
 - the names of three scientists willing to provide personal information on the applicant;
 - (if desired) other documents that the student thinks useful in furthering his/her application.

These documents are to be sent preferably via the online application system of the University of Groningen to the Admissions Office by February 1 for non-EU students and by post to the degree programme manager by June 1, for EU students preceding the start of the Degree programme.

- 9. Sufficient knowledge of the English language can be proved by
 - Cambridge Certificate of Proficiency in English (A, B or C);
 - Cambridge Certificate in Advanced English (A, B or C);
 - an overall score of 6.0 or higher in the International English Language Testing System (Academic version);
 - a score of at least 580 on the paper-based form of the Test of English as a Foreign Language;
 - a score of at least 237 on the computer-based form of the Test of English as a Foreign Language.
 - an original certificate of the test, not older than two years, needs to be sent in.
 - a Dutch VWO diploma with a score of 6.0 or higher on English.
 - the Admissions Board may accept other proofs of knowledge of the English language that guarantee a comparable level of knowledge of English.
- 10. The applicants will be informed in writing about the decision on their admission within 4 weeks after the deadline for submission. This may be a tentative decision, conditional on further information to be supplied by the candidate.

Appendix G Application deadlines for admission (art. 4.5)

Deadline of Application	Non-EU students	EU students
Behavioural and Cognitive Neurosciences	February 1st 2009	June 1st 2009