

# **Teaching and Examination Regulations (TER)**

**Faculty of Science**

**Masterprogramme in**

**Neurosciences**

**Academic year: 2019-2020**

- A: Faculty section
- B1: Programme specific section – general provisions
- B2: Programme specific section – content of programme

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## Section A: Faculty Section

### 1. General provisions

#### Article 1.1 Applicability of the Regulations

1. These Regulations apply to anyone enrolled for the programme, irrespective of the academic year in which the student was first enrolled for the programme. These Regulations apply to the teaching and examinations for the following Master's degree programmes:	Advice OLC, approval FGV (9.38 ub b)
<ul style="list-style-type: none"> <li>▪ Artificial Intelligence</li> <li>▪ Bioinformatics and System Biology</li> <li>▪ Biomedical Sciences</li> <li>▪ Biomolecular Sciences</li> <li>▪ Business Analytics</li> <li>▪ Computer Science</li> <li>▪ Drug Discovery and Safety</li> <li>▪ Earth Sciences</li> <li>▪ Ecology</li> <li>▪ Environment and Resource Management</li> <li>▪ Global Health (research)</li> <li>▪ Health Sciences</li> <li>▪ Hydrology</li> <li>▪ Information Sciences</li> <li>▪ Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences</li> <li>▪ Mathematics</li> <li>▪ Medical Natural Sciences</li> <li>▪ Neurosciences (research)</li> <li>▪ Parallel and Distributed Computer Systems</li> <li>▪ Science Business and Innovation</li> <li>▪ Stochastics and Financial Mathematics</li> </ul>	
2. These Regulations enter into force with effect from 1 September 2019.	Advice OLC, approval FGV (9.38 ub b)
3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this does not demonstrably damage the interests of students.	Advice OLC, approval FGV (9.38 sub b)

#### Article 1.2 Definitions

The following definitions are used in these Regulations (*in alphabetical order*):

- a. academic year: the period beginning on 1 September and ending on 31 August of the following calendar year;
- b. CvB: the Executive Board of Vrije Universiteit Amsterdam.
- c. Double degree programme: joint programme in the context of cooperation between Vrije Universiteit Amsterdam and the educational institution within and outside the EU, as to gain a double university degree; of the VU and the educational institution concerned; though not being the same as a 'joint degree programme' according to the art. 7.3c WHW';
- d. EC (European Credit): an EC credit with a workload of 28 hours of study;
- e. educational component: a unit of study of the programme within the meaning of the WHW;
- f. examination: the final examination of the Master's programme;
- g. exemption: Exemption from an examination/ practical/ fieldwork based on an earlier successfully completed examination, or knowledge / skills of a similar content, level and scope gained outside higher education;
- h. FGV: Faculty joint assembly – assembly of the faculty student council and faculty staff

- council;
- i. interim examination: an assessment of the student's knowledge, understanding and skills relating to a course component. The assessment is expressed in terms of a final mark. An interim examination may consist of one or more partial examinations. A resit always covers the same material as the original interim examination;
- j. joint degree: a degree awarded by an institution together with one or more institutions in the Netherlands or abroad, after the student has completed a study programme (a degree programme, a major or a specific curriculum within a degree programme) for which the collaborating institutions are jointly responsible;
- k. OLC: programme committee;
- l. period: a part of a semester;
- m. practical exercise: the participation in a practical training or other educational learning activity, aimed at acquiring certain (academic) skills. Examples of practical exercises are:
- o researching and writing a thesis or dissertation
  - o carrying out a research assignment
  - o taking part in fieldwork or an excursion
  - o taking part in another educational learning activity aimed at acquiring specific skills, or
  - o participating in and completing a work placement;
- n. premaster student those who enroll in a premaster programme;
- o. Programme: the totality and cohesion of the course components, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
- p. SAP/SLM: the student information system (*Student Lifecycle Management*);
- q. semester: the first (September - January) or second half (February - August) of an academic year;
- r. study guide: the guide for the study programme that provides further details of the courses, provisions and other information specific to that programme. The Study Guide is available electronically at:  
<https://www.vu.nl/studiegids>
- s. subject see 'educational component';
- t. substituting course/educational component see under d (double degree programme). A course obtained at the educational institute, within the context of cooperation, that is mentioned in the diploma supplement as such; not being an 'exemption'.
- u. thesis/ internship work placement a component comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
- v. university: Vrije Universiteit Amsterdam;
- w. WHW: the Dutch Higher Education and Research Act (*Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek*);
- x. workload: the workload of the unit of study to which an interim examination applies, expressed in terms of credits = EC credits (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1,680 hours) is 60 EC credits.

The other terms have the meanings ascribed to them by the WHW.

## 2. Study programme structure

### Article 2.1 Structure of academic year and educational components

1. The study programme will be offered in a year divided into two semesters.	Ordinance CvB, see appendix 3
2. Every semester consists of three consecutive periods of eight, eight and four weeks.	Ordinance CvB, see appendix 3
3. An educational component comprises 6 EC or a multiple thereof.	Ordinance CvB,

	see appendix 3
4. By way of exception to paragraph 3, Section B may stipulate that a unit of study comprises 3 EC or a multiple thereof. The Faculty Board requests permission from the Executive Board.	Ordinance CvB, see appendix 3

#### Article 2.2 Refusal or termination of registration / (iudicium abeundi)

1. Pursuant to the provisions of Article 7.42a of the Act, the Faculty Board or the Examination Board may, in exceptional circumstances, request the Executive Board to terminate or refuse a student's registration on a programme. This may be the case if the student's conduct or statements demonstrate his or her unsuitability to work in the relevant field or discipline, or to take part in the programme's practical training component.	WHW
2. If a student is suspected of being unsuitable as described in paragraph 1, the Examination Board or the Faculty Board will examine the case, and the student will be informed of this immediately. The Examination Board or the Faculty Board will only issue a recommendation after careful consideration of the interests involved and following a hearing with the student concerned.	WHW

### **3. Assessment and Examination**

#### Article 3.1 Signing up for education and interim examinations

1. Every student must sign up to participate in the educational components of the programme, the examinations and resits. The procedure for signing up is described in an annex to the Student Charter.	Ordinance CvB, see appendix 3
2. Signing up may only take place in the designated periods.	Ordinance CvB, see appendix 3
3. If a student does not pass the examination and the resit of a component, he/ she is obliged to take the whole component again. This rule does not apply to practical exercises and programmes that make use of component marks that retain their validity. For further regulations see Section B of the programme involved.	Advice OLC, approval FGV (7.13 x)

#### Article 3.2 Type of examination

1. At the student's request, the Examination Board may permit a different form of interim examination than that stipulated in the course catalogue. If applicable, more detailed regulations on this are included in the Rules and Guidelines for the Examination Board.	Advice OLC, Approval FGV (7.13 l)
2. In an educational component is no longer offered in the academic year following its termination, at least one opportunity will be provided to sit the interim examination(s) or parts thereof and a transitional arrangement will be included in the programme-specific section for the subsequent period.	Advice OLC, approval FGV (7.13 j)

#### Article 3.3 Oral interim examinations

1. An oral assessment is public unless the Examinations Board on request determines otherwise.	Advice OLC; approval FGV (7.13 l and n)
2. An oral examination will be taken in the presence of a second examiner.	Advice OLC, approval FGV (art. 9.38 par. b)

#### Article 3.4 Determining and announcing results

1. The examiner determines the result of a written interim examination as soon as possible, but at the latest within fifteen working days. By way of departure from that stipulated in the first clause, the marking deadline for theses, internships / work placements and final assignments is no longer than twenty working days. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.	Ordinance CvB, see appendix 3
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2. a. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, though within one working day, after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies. b. The examiner determines the result of an interim examination no later than five working days before the next (interim) examination will be held.	Advice OLC; approval FGV (7.13 o)
3. In the case of alternative forms of oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.	Advice OLC; approval FGV (7.13 o)
4. A student can submit a request for reassessment to the examiner. A request for reassessment does not affect the time period for lodging an appeal.	Advice OLC; approval FGV (9.38 sub b)
5. Together with the result of an examination, the student's attention will also be drawn to their right to inspect the assessed work and have a post-examination discussion as stipulated in Art. 3.9, as well as his/her option to lodge a complaint before the Examination Board, and if necessary, to appeal to the Examinations Appeals Board (in Dutch: COBEX).	

### Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations per educational component will be offered. b. The options for retaking practical components, work placements and theses are detailed in the relevant work placement manual, teaching regulations or graduation regulations.	Ordinance CvB, see appendix 3
2. The most recent mark will apply in the event of a resit. A retake is allowed for both passed and failed units of study.	Ordinance CvB, see appendix 3
3. The resit for a (partial) interim examination must not take place within ten working days of the announcement of the result of the (partial) examination being resat.	Advice OLC; approval FGV (7.13 j)
4. The Examination Board may allow a student an extra opportunity to sit an examination if that student: a) is lacking only those credits to qualify for his or her degree; b) has failed the examination during all the previously offered attempts, unless participation in an examination was not possible for compelling reasons.  The extra opportunity can only be offered if it concerns a written examination, a paper or a take home examination. This provision excludes the practical assignments and the Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide.	Ordinance CvB, see appendix 3

### Article 3.6 Marks

1. Marks are given on a scale from 1 to 10 with no more than one decimal point.	Ordinance CvB, see appendix 3
2. The final marks are given in whole or half points.	Ordinance CvB, see appendix 3
3. Final marks between 5 and 6 will be rounded off to whole marks: up to 5.5 rounded down; from 5.5 rounded up. To pass a course, a 6 or higher is required.  In case the examination of a component consists of two or more parts, each of which are graded separately, the (weighted) mean of these marks (meaning: the final mark) must be rounded off using the following table:	Ordinance CvB, see appendix 3

From	Up to	Grade
1,00	1,25	1
1,25	1,75	1,5
1,75	2,25	2,0
2,25	2,75	2,5

	2,75	3,25	3,0		
	3,25	3,75	3,5		
	3,75	4,25	4,0		
	4,25	4,75	4,5		
	4,75	5,50	5,0		
	5,50	6,25	6,0		
	6,25	6,75	6,5		
	6,75	7,25	7,0		
	7,25	7,75	7,5		
	7,75	8,25	8,0		
	8,25	8,75	8,5		
	8,75	9,25	9,0		
	9,25	9,75	9,5		
	9,75	10,0	10		
4. The Examination Board can allow to use symbols rather than numbers, such as: pass, fail, (un)satisfactory, good, VRS (exemption). In case a student does not take part in any (interim) examination, the examiner will register the mark 'ns' (c.q. no show).					Ordinance CvB, see appendix 3

#### Article 3.7 Exemption

1. At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if the student: a) has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level; b) has demonstrated through his/her work and/or professional experience that he/she has sufficient knowledge and skills with regard to the relevant course component. The Examination Board will make a decision within six weeks after receiving the request.	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis, the final work placement (c.q. internship) and the final project (c.q. final paper) are excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. A maximum of 18 EC for a one one-year master programme and 36 EC for a one two-year master programme can be accumulated through granted exemption. The substituting courses (educational components) are not included.	Advice OLC, approval FGV (art. 7.13 par. 2, under r WHW jo art. 9.38 par. b)

#### Article 3.8 Validity period for results

1. The validity period of interim examinations passed and exemption from interim examinations is unlimited, unless otherwise specified in Section B.	WHW
2. The validity period of a partial examination is limited to the academic year in which it was sat or until the end of the unit of study concerned, as stipulated for the relevant unit of study in Section B.	Advice OLC; approval FGV (9.38 sub b)

#### Article 3.9 Right of inspection and post-examination discussion

1. For twenty working days after the announcement of the results of a written interim examination, the student can, on request, inspect his or her assessed work, the questions and assignments set in it, as well as the standards applied for marking. The place and time referred to in the previous clause will be announced at the time of the interim examination on VUnet or Canvas.	Advice OLC; approval FGV (7.13 p en q)
2. If a collective post-examination discussion has been organized, individual post-examination discussions will be held only if the student has attended the collective	Advice OLC; approval FGV (7.13 q)



discussion or if the student was unable to attend the collective discussion through no fault of his or her own.	
3. Students who meet the requirements stipulated in paragraph 1 can submit a request for an individual post-examination discussion to the relevant examiner. The discussion shall take place at a time and location to be determined by the examiner.	Advice OLC; approval FGV (7.13 p en q)

#### Article 3.10 Fraud and plagiarism

1. The provisions of the Rules and Guidelines for the Examination Board apply in full.	Ordinance CvB
2. Electronic detection software programmes may be used to detect plagiarism in texts. In submitting a text, the student implicitly consents to the text being saved in the database of the detection programme concerned.	Ordinance CvB

### 4. Academic student counselling and study progress

#### Article 4.1 Administration of study progress and academic student counselling

1. The faculty board is responsible for the correct registration of the students' study results. After the assessment of an educational component has been registered, every student has the right to inspect the result for that component and also has a list of the results achieved at his or her disposal in VUnet.	Advice OLC; approval FGV (7.13 u)
2. Enrolled students are eligible for academic student counselling. Academic student counselling is in any case provided by: <ul style="list-style-type: none"> <li>a. The Student General Counselling Service</li> <li>b. Student psychologists</li> <li>c. Faculty academic advisors</li> </ul>	Advice OLC; approval FGV (7.13 u)

#### Article 4.2 Adaptations for students with a disability

1. A student with a disability can, at the moment of submission to VUnet, or at a later instance, submit a request to qualify for special adaptations with regard to teaching, practical training and interim examinations. These adaptations will accommodate the student's individual disability as much as possible, but may not alter the quality or degree of difficulty of a unit of study or an examination. In all cases, the student must fulfil the exit qualifications for the study programme.	Advice OLC; approval FGV (7.13 m)
2. The request referred to in the first paragraph must be accompanied by a statement from a doctor or psychologist. If possible, an estimate should be given of the potential impact on the student's study progress. In case of a chronic disability a single (one time) request suffices.	Advice OLC; approval FGV (7.13 m)
3. Students who have been diagnosed with dyslexia must provide a statement from a BIG, NIP or NVO registered professional who is qualified to conduct psychological evaluation.	Advice OLC; approval FGV (7.13 m)
4. The faculty board, or on behalf of the faculty board, the educational director, or the programme director, decides on the adaptations concerning the teaching facilities and logistics. The Examination Board will rule on requests for adaptations with regard to examinations.	Advice OLC; approval FGV (7.13 m)
5. In the event of a positive decision in response to a request as referred to in paragraph 1, the student will make an appointment with the study adviser to discuss the details of the provisions.	Advice OLC; approval FGV (7.13 m)
6. A request for adaptations will be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld.	Advice OLC; approval FGV (7.13 m)
7. If the disability justifies an extension of the interim examination time, the Examination Board will grant permission testifying to this entitlement to an extension. If a disability justifies other measures to be taken, the Examination Board will advise the Faculty Board on the necessary measures to be taken.	Advice OLC; approval FGV (7.13 m)
8. The decision as referred to in paragraph 7, is valid for a maximum period of one year with	Advice OLC; approval FGV

the exception for the chronic diseases and disabilities.	(7.13 m)
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## **5. Hardship clause**

### **Article 5.1 Hardship clause**

In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness and unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the Examinations Board.	Advice OLC; approval FGV (9.38 sub b)
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### **Article 5.2. Publication**

1. The faculty board will ensure the appropriate publication of these Regulations and any amendments to them.	WHW
2. The Teaching and Examination Regulations will be posted in the study guide or on VUnet.	WHW

Approved by authorized representative advisory body FGOV of the Faculty of Science on 3 September 2019.

Adopted by the Faculty Board on 30 August 2019.

## Section B1: Programme specific – general provisions

### 6. General programme information and characteristics

#### Article 6.1 Study programme information

1. The programme Neurosciences CROHO number 60806 is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
2. The language of instruction is English.	Advice OLC; approval FGV (9.38 sub b)

#### Article 6.1a. Deviant size of educational component

By way of derogation from art. 2.1 par. 3, the units listed below have deviant size:			Approval OLC (art. 7.13 lid 2, under e), approval CvB
<b>Coursecode</b>	<b>Educational component</b>	<b>nr of EC</b>	
AM_1215	From Molecule to Mind	9 EC	
AM_1216	Statistics in Neurosciences	3 EC	
AM_471108	Internship Neurosciences I	27 EC	
AM_471109	Internship Neurosciences II	25 EC	
AM_471110	Literature Survey Neurosciences	8 EC	
AM 1250	Portfolio	(3EC)	

#### Article 6.2 Teaching formats used and modes of assessment

1. The programme uses the teaching formats as specified in the study guide.	Advice OLC; approval FGV (7.13 x)
2. The modes of assessment used per educational component are specified in the study guide.	Advice OLC; approval FGV (7.13 l)

#### Article 6.3 Academic student counselling

The programme offers the following counselling in addition to the student counselling mentioned in Section A:	Advice OLC; approval FGV (7.13 u)
<ul style="list-style-type: none"> <li>the program coordinator and junior lecturer offer counselling throughout the academic year. Dates and times are posted on Canvas and students can subscribe to a certain time slot.</li> </ul>	

### 7. Further admission requirements

#### Article 7.1 Intake date(s)

1. The programme starts on September 1	Advice OLC; approval FGV (9.38 ub b)
2. The educational programme has a limited programme capacity. The program accepts approximately 40 students per year.	Approval OLC (art. 7.13 par. 2)

#### Article 7.2 Admission requirements

1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree obtained at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills:	Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW
a. <b>Knowledge</b> , and b. <b>Understanding</b> :	
i. basic knowledge and understanding of neurobiology, as demonstrated by:	
<ul style="list-style-type: none"> <li>holding an academic Bachelor's degree in Biology, Biomedical Sciences, or Psychology with a Biological Psychology or Neuropsychology profile,</li> </ul> or:	

<ul style="list-style-type: none"> <li>• a BSc degree in a closely related discipline (e.g. Movement Sciences, Artificial Intelligence or Medicine).</li> <li>ii. Having obtained good grades, i.e. A minimum undergraduate grade-point average of 7.5 (or international equivalent, e.g. a B+, or a GPA of 3.4); and a minimum grade of 8 (or international equivalent, e.g. an A, or a GPA of 4.0), for both the Bachelor's thesis and neuroscience-related courses.</li> </ul> <p><b>b. skills:</b></p> <ul style="list-style-type: none"> <li>i. Possess well-developed academic skills including writing and presenting abilities, the ability to evaluate and apply knowledge, and the ability to engage in critical thinking.</li> </ul>	
2. The Admissions Board will investigate whether the applicant meets the admission requirements.	Legal provision
3. In addition to the requirements referred to in the first paragraph, the Admissions Board can also assess requests for admission in terms of (at least two of) the following criteria:	Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW
<ul style="list-style-type: none"> <li>a. talent and motivation;</li> <li>b. proficiency in the language(s) of instruction.</li> </ul>	

#### Article 7.3 English language requirement for English-language Master's programmes or English-language specializations

<p>1. In deviation from the language proficiency requirements as stated in the Application and registration regulation (RAI) an applicant should demonstrate that he or she has sufficient level of proficiency in English by meeting at least one of the following standards, no more than two (2) years before the start of the programme at the VU:</p> <ul style="list-style-type: none"> <li>• (academic) IELTS (&gt;6.5): <ul style="list-style-type: none"> <li>- Minimum Overall Band Score 6,5;</li> <li>- Minimum Sub-score Listening 6,0;</li> <li>- Minimum Sub-score Reading 6,0;</li> <li>- Minimum Sub-score Writing 6,5;</li> <li>- Minimum Sub-score Speaking 6,0.</li> </ul> </li> <li>• TOEFL paper based test (&gt; 580): <ul style="list-style-type: none"> <li>- Minimum Sub-score Structure/Written Expression: 59.</li> </ul> </li> <li>• TOEFL internet based test (&gt; 92): <ul style="list-style-type: none"> <li>- Minimum Sub-score Reading 18;</li> <li>- Minimum Sub-score Listening 19;</li> <li>- Minimum Sub-score Speaking 19;</li> <li>- Minimum Sub-score Writing 24.</li> </ul> </li> <li>• het Cambridge Certificate of Proficiency in English (CPE) of het Cambridge Certificate of Advanced English (CAE), score A, B, or C</li> </ul>	Advice OLC; approval FGV (9.38 sub b)
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#### Article 7.4 Pre-Master's programme

No Pre-master programme is offered for MSc Neurosciences.	Advice OLC; approval FGV (9.38 sub b)
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## 8. Interim examinations and results

### Article 8.1 Sequence of interim examinations

1. Students may participate in interim examinations [or practical exercises] of the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter: <i>this article is not applicable</i> .	Advice OLC; approval FGV (7.13 h, s & t)
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### Article 8.2 Validity period for results

1. See Article 3.8 of the Teaching and Examination Regulations, section A. No further specific provisions.	Advice OLC; approval FGV (7.13 )
2. A student may request the Examination Board to extend the validity of an exam. If the exam shows that a student's knowledge is insufficient or outdated, or if the student's skills and insights evaluated in the exam are demonstrably outdated, the Examination Board may impose a supplementary examination, impose a replacement examination or refuse to extend the period of validity.	Legal provision
3. In situations where a limited period of validity applies, the period of validity of examinations may be extended in the event of extenuating circumstances as stipulated in WHW Article 7.51, paragraph 2, with at least the period of allocated financial assistance specified in WHW Article 7.15, paragraph 1.	Legal provision

### Article 8.3 Maximum Exemption(s)

A maximum of 36 EC of the curriculum can be accumulated through granted exemptions, based on previous results within other master's programmes. Exemptions are granted by the Examination Board.	Advice OLC, approval FGV (7.13 par. 2, under r jo art. 9.38 sub b)
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### Article 8.4 Degree

Degree Students who have successfully completed their Master's final Examination are awarded a Master of Science degree (MSc). The degree awarded is stated on the diploma.	Legal provision, WHW
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## Section B2: Programme specific – content of programme

### 9. Programme objectives, specializations and exit qualifications

#### Article 9.1 Workload

1. The programme has a workload of 120 EC.	Advice OLC; (7.13 a)
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#### Article 9.2 Specializations

The programme has no specializations.	Advice OLC; (7.13 a)
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#### Article 9.3 Programme objective

The programme aims to train students to become neuroscientists who are able to independently conduct neuroscientific research. Students will acquire the required knowledge, insight and skills related to neurosciences, as well as the academic skills including a critical disposition, insight in societal and ethical aspects of neuroscience research.	Advice OLC; (7.13 a)
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#### Article 9.4 Exit qualifications

<p>1. At all events, a graduate of the study programme will have:</p> <p><b>Knowledge and Understanding</b></p> <ol style="list-style-type: none"> <li>1. an overview of the conceptual framework in the field of neuroscience, including the state of the art in terms of new theories and current research challenges;</li> <li>2. appreciate the position of the neurosciences within biology, biomedical sciences, medicine and psychology;</li> <li>3. appreciate the scientific and social relevance of the neurosciences</li> <li>4. understand that science is a team effort</li> </ol> <p><b>Applying Knowledge and Understanding</b></p> <p>Master's graduates have demonstrated the ability to:</p> <ol style="list-style-type: none"> <li>6. acquire, structure and integrate information in the field of neuroscience to generate novel hypotheses that further the field;</li> <li>7. conceive, design, visualize, analyze, implement and adapt own neuro-scientific data and experiments;</li> <li>8. produce written reports and verbal research presentations in English;</li> </ol> <p><b>Making judgments</b></p> <p>Master's graduates have demonstrated the ability to:</p> <ol style="list-style-type: none"> <li>9. critically analyse and interpret neuro-scientific research, in relation to design, performance, and results obtained;</li> <li>10. evaluate their performance as neuro- scientific researcher, both introspectively and in conversation with others;</li> <li>11. think in multidisciplinary terms;</li> <li>12. reflect on ethical aspects of neuroscience research, and include these in decision making processes;</li> </ol> <p><b>Learning focus</b></p> <p>Master's graduates have the learning skills:</p> <ol style="list-style-type: none"> <li>13. to further study in a largely self-directed or autonomous manner;</li> <li>14. to collaborate with researchers from other disciplines;</li> </ol>	Approval OLC (7.13 c)
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15. to pursue a career as independent neuroscience researcher either in- or out-side of academia;	
<b>Communication</b> Master's graduates have demonstrated the ability to:	
16. contribute to scientific discussions;	
17. discuss neuroscience related topics with peers, the larger scholarly community and with society as a whole;	
18. efficiently communicate in interdisciplinary research teams.	

## 10. Curriculum structure

### Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory components and an individual Master's thesis or academic internship.	Ordinance CvB, see appendix 3
2. Additionally the programme can offer: <ul style="list-style-type: none"> <li>• Practical exercises;</li> <li>• Electives.</li> </ul>	Advice OLC; (7.13 a)
3. Educational components are categorized as specialized (400), research oriented (500) and highly specialized (600) level.	Ordinance CvB, see appendix 3

### Article 10.2 Compulsory educational components

A detailed description per educational component can be found in the Study Guide.

Educational component	course code	nr of EC	level	Advice OLC; (7.13 a)
Clinical Neurosciences	AM_1005	6	400	
Neurogenomics	AM_1007	6	400	
Academic Writing: Neurosciences	AM_1123	3	400	
Genetics in Neuroscience	AM_1214	6	400	
From Molecule to Mind	AM_1215	9	400	
Statistics in Neurosciences	AM_1216	3	400	
Internship Neurosciences I	AM_471108	27	600	
Internship Neurosciences II	AM_471109	25	600	
Literature Survey Neurosciences	AM_471110	8	600	
Neurophilosophy and Ethics	AM_1018	3	500	
Neurosciences Career and ASP	AM_1250	0	500	

### Article 10.3 Elective educational components

1. The student can take one or more of the following electives without prior consent from the Examination Board:				Advice OLC; (7.13 a)
Name of educational component	course code	nr of EC	level	
Advanced Clinical Neurosciences	AM_1014	6	600	
Neuron-Glia Interactions	AM_1217	6	500	
Cellular Models for Brain Disorders	AM_1218	6	500	
Functional Brain Imaging	AM_470715	6	500	
Advanced Neurogenomics	AM_470717	6	600	
Live Cell Imaging	AM_470726	6	500	
Neuronal Networks in Vivo	AM_1001	6	600	
Rhythms of the Brain	AM_1003	6	600	
Neuroendocrinology	AM_470700	6	500	
Systems Neuroscience	AM_470712	6	500	
Developmental neurobiology	AM_470713	6	500	
Neuro- and Psychopharmacology	AM_470718	6	600	
Methods in Behavioral Neurosciences	AM_470728	6	500	

2. If the student wishes to take a different educational component than listed, advance permission must be obtained in writing from the Examinations Board.	Advice OLC; (7.13 a)
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#### Article 10.4 Practical exercise

The following components can be considered as practical exercises: <i>article is not applicable</i> .	Approval OLC (7.13 d)
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#### Article 10.5 Participation in practical training and tutorials

1. In the case of a practical training, the student must attend all the practical sessions. Should the student attend less than 100 %, he or she must repeat the practical training, or the examiner may have one or more supplementary assignments issued.	Approval OLC (7.13 d)
2. In the case of a tutorial, the student must attend all the practical sessions. Should the student attend less than 100 %, he or she must repeat the practical training, or the examiner may have one or more supplementary assignments issued.	Approval OLC (7.13 d)

### 11. Evaluation and transitional provisions

#### Article 11.1 Evaluation of the education

The education provided in this programme is evaluated in accordance with the (attached) evaluation plan. The faculty evaluation plan offers the framework.	Approval OLC (7.13 a1)
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#### Article 11.2 Transitional provisions

<p>1. By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations:</p> <p>Compulsory components that have been replaced from 2018-2019:</p> <ul style="list-style-type: none"> <li>Statistics in Neurosciences (AM_1216, 3 EC) replaces course data analysis and Visualisation (AM_1191);</li> <li>Behavioral Genetics (AM_1006, 6 EC) is replaced by Genetics in neurosciences (AM_1214).</li> </ul> <p>The compulsory components below have been replaced in academic year 2016-2017:</p> <ul style="list-style-type: none"> <li>AM_1190 Molecule to Mind (6 EC) and AM_1191 Data Analysis and Visualisation (6 EC) replace AM_1004 Molecule to Mind (12 EC).</li> <li>From 1 September 2016 students have to pass the new course unless they passed the old course.</li> </ul> <p>The compulsory components below have been replaced in academic year 2014-2015:</p> <ul style="list-style-type: none"> <li>AM_1123 Writing a Research Proposal (3 EC) replaces AM_471023 Scientific Writing in English (3EC).</li> <li>From 1 September 2014 students have to pass the new course unless they previously passed the old course.</li> </ul> <p>The compulsory components below have been replaced in academic year 2011-2012:</p> <ul style="list-style-type: none"> <li>AM_1004 Molecule to Mind (12EC) 470701 Principles of Neuroscience (6 EC) and 815054 Quantitative Methods in Neuroscience and Genetics (5 EC)</li> <li>From 1 September 2011 students have to pass the new course unless they passed the old course.</li> </ul>	Advice OLC (7.13 a)
2. By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations:	



<p>For students who started their program before academic year 2012-2013 the courses below are not compulsory:</p> <ul style="list-style-type: none"> <li>• AM_1018 Neurophilosophy and Ethics (3 EC)</li> </ul>	
<p>3. By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations:</p> <p>Elective components that have been removed from the curriculum</p> <p>The courses below are no longer available in the program but are still elective components for students who started their program before academic year 2016-2017 and have passed the courses' examinations. Course ends in 2019-20:</p> <ul style="list-style-type: none"> <li>• Complex Trait Genetics AM_470733</li> </ul> <p>The courses below are no longer available in the program but are still elective components for students who started their program before academic year 2016-2017 and have passed the courses' examinations. Courses ended in academic year 2017-2018:</p> <ul style="list-style-type: none"> <li>• AM_470736 Psychophysiology (6EC)</li> <li>• AM_1195 Neuropsychiatric genetics (6EC)</li> <li>• AM_1040 Statistical Genetics and Gene Finding (6EC)</li> <li>• AM_1008 Genomic Data Analysis (6EC)</li> <li>• AM_1006 Behavioral Genetics (6EC)</li> <li>• AM_1191 Data Analysis and Visualisation (6EC)</li> <li>• AM_1190 From molecule to mind (6EC)</li> </ul> <p>Courses ended in academic year 2014-2015</p> <ul style="list-style-type: none"> <li>• AM_471018 Neurobiology of Animal Behaviour</li> <li>• AM_1009 Synaptic and Cellular Neurophysiology</li> </ul> <p>The courses below are no longer available in the program but are still elective components for students who started their program before academic year 2011-2012 and have passed the courses' examinations. Courses ended in academic year 2010-2011:</p> <ul style="list-style-type: none"> <li>• 470725 Bioinformatics (6 EC)</li> <li>• 470735 Cognition and Attention (5 EC)</li> <li>• 470711 Emotional and Cognitive Neuroscience (4 EC)</li> <li>• 470714 Experimental Neurophysiology (6 EC)</li> <li>• 470727 In Vivo Neurophysiology (6 EC)</li> <li>• 470724 Neuroinformatics (6 EC)</li> </ul>	

Advice and approval by the Programme Committee of M Neurosciences, on 11 June 2019.

Approved by the Faculty Joint Assembly, on 3 September 2019.

Adopted by the board of the Faculty of Science, on 30 August 2019.

## Appendix I Overview of articles that must be included in the OER

Based on Section 7.13, paragraph 2, of the WHW and other Sections of the Act.

### Section B1: Programme specific – general provisions

<b>6. General programme information and characteristics</b>	
Article 6.1 Study programme information	7.13 paragraph 2 sub i, r
Article 6.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x
[option:] Article 6.3 Academic student counselling	7.13 paragraph 2 sub u
<b>7. Further admission requirements</b>	
Article 7.2 Admission requirements	7.30b paragraph 2
<b>8. Interim examinations and results</b>	
Article 8.1 Sequence of interim examinations	7.13 paragraph 2 sub h, s, t
[option 1:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k
[option 2:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k

### Section B2: Programme specific – content of programme

<b>9. Programme objectives, specializations and exit qualifications</b>	
Article 9.1 Workload	7.13 paragraph 2 sub g
Article 9.2 Specializations	7.13 paragraph 2 sub a
Article 9.3 Programme objective	7.13 paragraph 2 sub a
Article 9.4 Exit qualifications	7.13 paragraph 2 sub b, c
<b>10. Curriculum structure</b>	
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a
Article 10.2 Compulsory educational components	7.13 paragraph 2 sub a
[Optional] Article 10.3 Elective educational components	7.13 paragraph 2 sub a
[Optional] Article 10.4 Practical exercise	7.13 paragraph 2 sub d
Article 10.5 Participation in practical training and tutorials	7.13 paragraph 2 sub d
<b>11. Evaluation and transitional provisions</b>	
Article 11.1 Evaluation of the education	7.13 paragraph 2 sub a1
Article 11.2 Transitional provisions	7.13 paragraph 2 sub a

## Appendix II Overview of rights to prior consultation (advice) and rights to approve OLC and FGV

(Dutch only)

Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 paragraaf 2 WHW	FGV		OplC	
	I	A	I	A
a. de inhoud van de opleiding en van de daaraan verbonden examens				
a1. de wijze waarop het onderwijs in de desbetreffende opleiding wordt geëvalueerd				
b. de inhoud van de afstudeerrichtingen binnen een opleiding				
c. de kwaliteiten op het gebied van kennis, inzicht en vaardigheden die een student zich bij beëindiging van de opleiding moet hebben verworven				
d. waar nodig, de inrichting van praktische oefeningen				
e. de studielast van de opleiding en van elk van de daarvan deel uitmakende onderwijsseenheden				
f. de nadere regels, bedoeld in de artikelen 7.8b, zesde lid, en 7.9, vijfde lid (BSA)				
g. ten aanzien van welke masteropleidingen toepassing is gegeven aan artikel 7.4a, achtste lid (verhoogde studielast)				
h. het aantal en de volgtijdelijkheid van de tentamens alsmede de momenten waarop deze afgelegd kunnen worden				
i. de voltijdse, deeltijdse of duale inrichting van de opleiding				
j. waar nodig, de volgorde waarin, de tijdvakken waarbinnen en het aantal malen per studiejaar dat de gelegenheid wordt geboden tot het afleggen van de tentamens en examens				
k. waar nodig, de geldigheidsduur van met goed gevolg afgelegde tentamens, behoudens de bevoegdheid van de examencommissie die geldigheidsduur te verlengen				
l. of de tentamens mondeling, schriftelijk of op een andere wijze worden afgelegd, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
m. de wijze waarop studenten met een handicap of chronische ziekte redelijkerwijs in de gelegenheid worden gesteld de tentamens af te leggen				
n. de openbaarheid van mondeling af te nemen tentamens, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
o. de termijn waarbinnen de uitslag van een tentamen bekend wordt gemaakt alsmede of en op welke wijze van deze termijn kan worden afgeweken				
p. de wijze waarop en de termijn gedurende welke degene die een schriftelijk tentamen heeft afgelegd, inzage verkrijgt in zijn beoordeelde werk				
q. de wijze waarop en de termijn gedurende welke kennis genomen kan worden van vragen en opdrachten, gesteld of gegeven in het kader van een schriftelijk afgenomen tentamen en van de normen aan de hand waarvan de beoordeling heeft plaatsgevonden				
r. de gronden waarop de examencommissie voor eerder met goed gevolg afgelegde tentamens of examens in het hoger onderwijs, dan wel voor buiten het hoger onderwijs opgedane kennis of vaardigheden, vrijstelling kan verlenen van het afleggen van een of meer tentamens				
s. waar nodig, dat het met goed gevolg afgelegd hebben van tentamens voorwaarde is voor de toelating tot het afleggen van andere tentamens				
t. waar nodig, de verplichting tot het deelnemen aan praktische oefeningen met het oog op de toelating tot het afleggen van het desbetreffende tentamen, behoudens de bevoegdheid van de examencommissie vrijstelling van die verplichting te verlenen, al dan niet onder oplegging van vervangende eisen				
u. de bewaking van studievoortgang en de individuele studiebegeleiding				
v. indien van toepassing: de wijze waarop de selectie van studenten voor een speciaal traject binnen een opleiding, bedoeld in artikel 7.9b, plaatsvindt (excellentietraject binnen een opleiding)				
x. de feitelijke vormgeving van het onderwijs				
alle overige onderwerpen die in de OER zijn geregeld maar die niet als zodanig zijn genoemd in art. 7.13 WHW onder a t/m x.				

De lettering komt overeen met de lettering van artikel 7.13 lid 2 WHW

**Appendix III Ordinances VU CvB and Binding Guidelines (richtlijn)**

<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
7.2.1	Admission criteria; at least WO Bachelor's degree	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
7.2.3	Additional admission criteria; type of criteria	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
10.1	Composition programme	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
10.2	Categorization of components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017