

Teaching and Examination Regulations

Master's programme in Artificial Intelligence Faculty of Science

Academic year 2022-2023

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 in the programme, irrespective of the academic year in which the student was first enrolled in the programme. This applies to both the faculty section (part A), and the programme-specific section (part B) of these Teaching and Examination Regulations.	Advice OLC, approval FGV (9.38 sub b)
2. These Regulations enter into force on 1 September 2022.	Advice OLC, approval FGV (9.38 sub 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 an educational institution within or outside the Netherlands, 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): A course credit with a workload of 28 hours of study;
- e. examination: the final examination of the bachelor's programme (in accordance with the WHW: the entirety of all interim examinations within the programme);
- f. 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;
- g. FGV: Faculty joint assembly – assembly of the faculty student council and faculty staff council;
- h. interim examination: an assessment of the student's knowledge, understanding and skills relating to an educational component. The assessment is expressed in terms of a final mark. An interim examination may consist of one or more partial examinations. A resit of an interim examination covers the same material as the original interim examination;
- i. 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;
- j. OLC: programme committee;
- k. period: a part of a semester;

- l. practical exercise: the participation in a practical training or other educational learning activity, aimed at acquiring certain (academic) skills. Examples of practical exercises are:
- researching and writing a thesis or dissertation
 - carrying out a research assignment
 - taking part in fieldwork or an excursion
 - taking part in another educational learning activity aimed at acquiring specific skills, or
 - participating in and completing a work placement;
- m. pre-Master's enrollee: person enrolled in a pre-Master's programme, who is not a student from a legal perspective;
- n. programme: the totality and cohesion of the units of education, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
- o. SAP/SLM: the student information system (*Student Lifecycle Management*);
- p. semester: the first (September - January) or second half (February - August) of an academic year;
- q. specialization: optional route of study within a degree programme indicating a deepening of the (inter/multi) disciplinary context of the programme;
- r. student statute: sets out the rights and responsibilities of students on the one hand, and of Vrije Universiteit Amsterdam on the other hand, including those derived from the law and those derived from university regulations. The Executive Board (CvB) officially confirms the student statute once its completeness has been approved by the University Student Council (USC);
- s. 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/en/study-guide/>;
- t. study monitor: dashboard for students and academic advisors with data of the student (*studiemonitor*);
- u. subject: see 'unit of education';
- v. substituting course/unit of education: see under c (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';
- w. track: a study pathway within a broader Bachelor's or Master's degree programme, such as a fully English-language study pathway within a Dutch-language Bachelor's or Master's programme;
- x. thesis/internship work placement: scientific research, always resulting in a written report;
- y. unit of education: a unit of study of the programme within the meaning of the WHW;
- z. university: Vrije Universiteit Amsterdam;
- aa. WHW: the Dutch Higher Education and Research Act (*Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek*);
- bb. workload: the workload of the unit of study to which an interim examination applies, expressed in terms of credits = EC (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1,680 hours) is 60 EC.

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

2. Study programme structure

Article 2.1 Structure of academic year and units of education

1. The study programme will be offered in a year divided into two semesters.	Ordinance CvB, see Appendix III
2. Every semester consists of three consecutive periods. The first two periods each consist of eight weeks, and the final period consists of four weeks.	Ordinance CvB, see Appendix III
3. A unit of education comprises 6 EC or a multiple thereof.	Ordinance CvB, see Appendix III
4. By way of exception to paragraph 3, the Executive Board may in special cases and on request of the Faculty Board, stipulate that a unit of study comprises 3 EC or a multiple thereof.	Ordinance CvB, see Appendix III

3. Assessment and examination

Article 3.1 Signing up for education and interim examinations

1. Every student must sign up to participate in the units of education of the programme, the interim examinations and resits. The procedure for signing up is described in an annex to the Student Charter.	Ordinance CvB, see Appendix III
2. Signing up may only take place in the designated periods.	Ordinance CvB, see Appendix III

Article 3.2 Type of examination

1. At the examiner's request, the Examination Board may permit a different form of interim examination than is stipulated in the study guide.	Advice OLC, Approval FGV (7.13 l)
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Article 3.3 Oral interim examinations

1. An oral assessment is public unless the Examination Board determines otherwise.	Advice OLC; approval FGV (7.13 l and n)
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Article 3.4 Determining and announcing results

1. The examiner determines the result of a written interim examination within fifteen working days. By way of departure from that stipulated in the first clause, the marking deadline for theses 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 III
2. a. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, but at the latest 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 a(n) (partial) interim examination at least five working days prior to the next (partial) interim examination opportunity, with the exception of weekly assignments.	Advice OLC; approval FGV (7.13 o)
3. In the case of assessments other than 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)

Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations will be offered for each unit of education. b. By way of exception to a., the options for retaking practical exercises, work placements and theses are detailed in the relevant work placement manual, teaching regulations or graduation regulations.	Ordinance CvB, see Appendix III
2. The most recent mark will apply in the event of a resit. A resit is allowed for both passed and failed units of study.	Ordinance CvB, see Appendix III
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 interim examination if that student: a) lacks only those credits to qualify for their degree; and b) has failed the interim examination during all the previously offered attempts unless participation in an interim 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 exercises 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 III
5. If a unit of education is no longer offered in the following academic year and disappears from the curriculum, one opportunity will be provided to sit the interim examination(s) or parts thereof in the following academic year at the latest and a transitional arrangement for the subsequent period will be included in the programme-specific section of the Teaching and Examination Regulations (part B).	Advice OLC, approval FGV (7.13 j)

Article 3.6 Marks

1. Partial marks are given on a scale from 1 to 10 with no more than one figure after the decimal point.	Ordinance CvB, see Appendix III
2. A final mark between 5 and 6 will be rounded to the nearest whole number: final marks below 5.50 will be rounded down; final marks of 5.50 or higher will be rounded up. All other final marks will be expressed in whole or half marks.	Ordinance CvB, see Appendix III

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:

From	To	Grade
1.00	1.24	1.0
1.25	1.74	1.5
1.75	2.24	2.0
2.25	2.74	2.5
2.75	3.24	3.0
3.25	3.74	3.5
3.75	4.24	4.0
4.25	4.74	4.5
4.75	5.49	5.0
5.50	6.24	6.0
6.25	6.74	6.5
6.75	7.24	7.0
7.25	7.74	7.5

	7.75	8.24	8.0		
	8.25	8.74	8.5		
	8.75	9.24	9.0		
	9.25	9.74	9.5		
	9.75	10.0	10		
3. To pass a given course or unit, a final mark of 6 or higher is required.					Ordinance CvB, see Appendix III
4. The Examination Board can allow the use of symbols rather than numbers, for example; v(oldaan), g(oed), n(iet)v(ol)d(aan), etc. 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 III

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 they: <ul style="list-style-type: none"> a) have either passed a unit of education of a university or higher professional education programme that is equivalent in terms of content and level; b) or have demonstrated through their work and/or professional experience that they have sufficient knowledge and skills with regard to the relevant unit of education. 	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis is excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. a. A maximum of 18 EC for a one-year master programme and 36 EC for a two-year master programme can be accumulated through granted exemption. The substituting courses (courses obtained at another educational institute within the context of a double degree, see art. 1.2) are not included. b. This regulation does not apply if a student is (simultaneously) enrolled in multiple programmes, which lead to multiple degrees, where courses may be part of both programmes. In such a case, the examination board may deviate from the regulations under a.	Advice OLC; approval FGV (9.38 sub 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.	Legal provision
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. Within twenty working days after the announcement of the results of a written interim examination, but at least ten working days before the resit opportunity for that interim examination, the student can submit a request to inspect their 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 on VU.nl Dashboard or Canvas in all cases.	Advice OLC; approval FGV (7.13 p and q)
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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 discussion or if the student was unable to attend the collective discussion through no fault of their own.	Advice OLC; approval FGV (7.13 q)
3. Students who meet the requirements stipulated in paragraph 2 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 within the regular timetable, on campus or online.	Advice OLC; approval FGV (7.13 p and q)

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 a unit of education 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 their disposal in VU.nl Dashboard.	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 <ol style="list-style-type: none"> The Student General Counselling Service Student psychologists Faculty academic advisers 	Advice OLC; approval FGV (7.13 u)

Article 4.2 Facilities for students with a disability

1. A student with a disability can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and interim examinations. These facilities 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 a psychological evaluation.	Advice OLC; approval FGV (7.13 m)
4. The faculty board, or the responsible person on behalf of the faculty board, decides on teaching facilities and facilities regarding logistics. The Examination Board will decide on requests for facilities 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 can make an appointment with the academic adviser to discuss the details of the provisions.	Advice OLC; approval FGV (7.13 m)
6. A request for one or more facilities can be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld. Any such refusal will be substantiated.	Advice OLC; approval FGV (7.13 m)
7. If the disability justifies an extension of the interim examination time, the responsible person on behalf of the Examination Board will register in SAP this entitlement to an extension. If a disability justifies other measures to be taken, the Examination Board	Advice OLC; approval FGV (7.13 m)

will advise the Faculty Board on the necessary measures to be taken. The student can consult the study monitor to check which facilities have been granted to them.	
8. The decision as referred to in paragraph 4 is valid for a maximum period of one year with the exception for chronic diseases and disabilities.	Advice OLC; approval FGV (7.13 m)

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 or unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the Examination Board.	Advice OLC; approval FGV (9.38 sub b)
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Section B1: Programme specific – general provisions

6. General programme information and characteristics

Article 6.1 Study programme information

1. The programme MSc Artificial Intelligence, CROHO number 66981, is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
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Article 6.2 Teaching formats used and modes of assessment

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

Article 6.3 Academic student counselling

1. The programme offers the following counselling in addition to the student counselling mentioned in Section A: - Study Advisor	Advice OLC; approval FGV (7.13 u)
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7. Further admission requirements

Article 7.1 Intake date(s)

1. The programme starts on 1 September.	Advice OLC; approval FGV (9.38 sub b)
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Article 7.2 Admission requirements

1. Admission to the Master's programme is possible for an applicant who has a Bachelor's degree obtained at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills: <ol style="list-style-type: none"> Applicants will be admitted to the degree programme if they hold a letter of acceptance, issued by or on behalf of the Faculty Board because they have demonstrated that they meet the knowledge, understanding and skills requirements of the final level of attainment in a university AI Bachelor's degree programme. Applicants will be admitted to the degree programme if they hold a Bachelor's degree in Artificial Intelligence from a Dutch university or a Bachelor's degree in Computer Sciences, or Psychology with a specialization in Cognitive Science and programming skills. A prerequisite of the Master's program is to have programming skills. Passing the programming test is obligatory for students without an Artificial Intelligence or Computer Science degree. If the degree programme encompasses distinct programmes, the Examination Board will assess whether the applicant has met the applicable requirements. 	Advice OLC, approval by FGV (9.38 sub b)
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2. Applicants who wish to follow a track must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: Not applicable.	Advice OLC, approval by FGV (9.38 sub b)
3. Applicants with a bachelor's degree obtained at an institution outside the Netherlands may be asked for additional methods to prove that they meet the admission requirements.	Advice OLC; approval FGV (9.38 sub b)
4. Not applicable (concerns Dutch language programmes)	
5. Applicants should demonstrate that they have a 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 VU Amsterdam: <ul style="list-style-type: none"> - (academic) IELTS: 6.5 - TOEFL paper based test: 580 - TOEFL internet based test: 92 	Advice OLC; approval FGV (9.38 sub b)
6. Applicants who: <ul style="list-style-type: none"> - completed an English-taught secondary or higher education degree in Canada, the United States, the United Kingdom, Ireland, New Zealand or Australia; or - have earned a Bachelor's or Master's degree in an English-taught programme accredited by NVAO in the Netherlands; or - have earned a Bachelor's or Master's degree in an accredited English-taught programme in another member state of the European Union; or - have obtained a Cambridge Certificate of Proficiency in English (CPE) or a Cambridge Certificate of Advanced English (CAE) with at least a score of A,B,C are exempted from the requirements referred to in paragraph 5. 	Advice OLC; approval FGV (9.38 sub b)
7. The Admission Board will investigate whether the applicant meets the admission requirements.	Advice OLC; approval FGV (9.38 sub b)

Article 7.3 Selection criteria

1. In addition to the admission requirements referred to in Article 7.2, the Faculty board also sets (at least two of) the following selection criteria: Not applicable a.	Advice OLC, approval FGV (9.38 sub b)
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Article 7.4 Pre-Master's programme

1. Applicants with a Bachelor's degree from a university of applied sciences (HBO) or a Bachelor's degree from a research university (WO) who wish to enter the programme but do not fulfill the admission requirements as stipulated in Article 7.2 can request admission to the pre-Master's programme. (The pre-Master's programme is only available to EER nationals.)	Advice OLC; approval FGV (9.38 sub b)
2. Candidates must, in addition to paragraph 1 above, also satisfy the following requirements regarding: <ol style="list-style-type: none"> Students with a Bachelor's degree of a university of applied sciences (HBO) in a field that corresponds to a sufficient extent with the subject area covered by the Master's programme can request admission to the pre-Master's programme. Students with a Bachelor's degree from an institution of academic higher 	Advice OLC; approval FGV (9.38 sub b)

education in a field that does not sufficiently correspond with the subject area covered by the Master's programme can request admission to the pre-Master's programme.	
3. A candidate must demonstrate that they meet the language requirements, as specified in Article 7.2.	
4. The pre-Master's programme has maximum 30 credits. The pre-Master's enrollee follows a customized set of modules, which may be comprised of the following modules: <ul style="list-style-type: none"> a. Introduction to Python Program (XB_0082) b. Introduction to Psychology and its Methods (XB_0069) c. Logic and Sets for AI (XB_0083) d. Data Structures and Algorithms for AI (XB_0043) e. Machine Learning (X_400154) f. Computational Intelligence (XB_0025) g. Intelligent Systems (XB_0031) h. Statistical Methods for AI (XB_0080) i. Knowledge and Data (X_400083) j. Human Computer Interaction (XB_0013) k. Dynamic Modelling for Human-Centered Systems (XB_0036) l. Multi-Agent Systems (XB_0024) <p>The following terms also apply:</p> <ul style="list-style-type: none"> a. If the pre-Master's enrollee is completing an individualized pre-Master's programme, this is to be communicated to the enrollee in writing. b. The Examination Board can, if the pre-Master's enrollee submits a written request, exempt the enrollee from one or more examinations. 	Advice OLC; approval FGV (9.38)
5. Evidence that the pre-Master's programme has been completed successfully will entitle the enrollee to admission to the relevant Master's programme in the following academic year.	Advice OLC; approval FGV (9.38)
6. The pre-Master's programme must be completed within one academic year.	Advice OLC; approval FGV (9.38)

8. Interim examinations and results

Article 8.1 Sequence of interim examinations

1. Students may participate in interim examinations and/or practical exercises of the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter: <ul style="list-style-type: none"> - Not applicable 	Advice OLC; approval FGV (7.13 h, s & t)
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Article 8.2 Validity period for results

1. The validity period of the interim examinations and exemptions from interim examinations below, is limited as follows: See Article 3.8 of the Teaching and Examination Regulations, section A. No further specific provisions.	Advice OLC; approval FGV (7.13 k)
2. A student may request the Examination Board to extend the validity of an exam. If the student's knowledge is demonstrably outdated, or if the student's skills and insights are demonstrably outdated, the Examination Board may impose a supplementary	Legal provision

examination, impose a replacement examination or refuse to extend the period of validity.	
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

Section B2: Programme specific – content of programme

9. Programme objectives, tracks/specializations, exit qualifications and language

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 Tracks and/or specializations

The programme has the following tracks: <ul style="list-style-type: none"> - Main track AI - Cognitive Science - AI for Health 	Approval OLC; (7.13 a)
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Article 9.3 Programme objective

1. The programme aims at: providing the student with the knowledge, experience and insights needed to autonomously carry out their professional duties. The programme is designed to prepare the student for further education as a scientific researcher (PhD studies) as well as to offer a solid basis for a career in business at an academic level. Moreover, the programme aims to educate the student to acquire a practical understanding of the position of the field of Artificial Intelligence within a broad scientific, philosophical and societal context. Students who want to take the Master's programme in Artificial Intelligence are expected to possess basic knowledge and skills in the field at Bachelor's level, including skills and attitudes of a general academic nature. The aim of the Master's programme is to extend and enhance the knowledge and skills acquired at Bachelor's level and, by concentrating on a specific area within the field of Artificial Intelligence, to lead the student towards the frontiers of design and application or towards some of the major research issues in their chosen specialization.	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> <ul style="list-style-type: none"> - knowledge and understanding in the field of Artificial Intelligence. <p>The objectives of the master can be specified into final qualifications. To comply with international standards these qualifications are presented below in terms of the Dublin descriptors for the master's profile.</p> <p>A. Knowledge and Understanding</p> <p>The master demonstrates knowledge and understanding in a field of study that builds upon and supersedes their bachelor's degree. Knowledge, understanding, and abilities are typically at a level at which the master is able to formulate a feasible research plan in one's own specialisation.</p> <p>We distinguish three levels of qualification: a basic understanding, corresponding to the minimal level of knowledge that is expected of a Bachelor student, an advanced understanding, meaning students must have in-depth knowledge about a topic that they</p>	Approval OLC (7.13 c)
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could easily develop to become a specialist, and specialist knowledge, meaning students are highly skilled (and specialised) in the key area in question.

Qualifications:

1. Basic understanding of all (8) key areas of Artificial Intelligence. The 8 key areas are:

- Cognitive Science;
- Computational Linguistics;
- Context of Artificial Intelligence (History, Philosophy, Ethics);
- Intelligent Autonomous Agents and Multi-Agent Systems;
- Interaction (Perception, Human-Computer Interaction, Communication);
- Knowledge Representation and Reasoning;
- Machine Learning;
- Problem Solving (Search, Decision Making, Optimisation).

2. An advanced understanding in some of the key areas of Artificial Intelligence;

3. Specialist knowledge of at least one of the key areas in Artificial Intelligence, up to a level that the master can appreciate the forefront of research in that field;

4. Has a solid academic knowledge of and insight in the field of hybrid artificial intelligence, including the required background knowledge of socially aware artificial intelligence, ambient intelligence, and ubiquitous computing, which builds upon and goes beyond the level of a Bachelor degree in any of those disciplines;

5. Has basic knowledge of physiological, psychological, or social aspects of human functioning that can be exploited in socially aware artificially Intelligent systems.

B. Applying Knowledge and Understanding

Masters can apply their knowledge and understanding in a manner that indicates a scientific approach to their work or vocation. They are able to handle complex and ill-defined problems for which it is not a priori known if there is an appropriate solution, how to acquire the necessary information to solve the sub-problems involved, and for which there is no standard or reliable route to the solution.

Qualifications:

1. The ability to formulate a project plan for an open problem in a field related to Artificial Intelligence in general and the own specialisation in particular.

2. The ability to determine the feasibility of a proposal to lead to a solution or design as specified.

3. The ability to contribute autonomously and with minimal supervision to an interdisciplinary project team and to profit from the abilities, the knowledge, and the contributions of other team members.

4. The ability to choose, apply, formulate, and validate models, theories, hypotheses, and ideas from the key areas of Artificial Intelligence.

5. The ability to submit an argument in the exact sciences (or humanities) to critical appraisal and to incorporate its essence in the solution of Artificial Intelligence problems.

6. The ability to translate academic knowledge and expertise into social, professional, economic, and ethical contexts.

<p>7. Awareness of, and responsibility concerning, the ethical, normative and social consequences of developments in science and technology, particularly resulting from original contributions.</p> <p>C. Making Judgments</p> <p>The master is able to formulate an opinion or course of action on the basis of incomplete, limited and in part unreliable information.</p> <p>Qualifications:</p> <ol style="list-style-type: none"> 1. Competence in the search and critical processing of all sources of information that help to solve an open and ill-defined problem; 2. The ability to demonstrate a professional attitude conform the (international) scientific conduct in Artificial Intelligence; 3. The ability to provide and receive academic criticism conform the standards in one specialism of Artificial Intelligence-research; 4. The ability to formulate an opinion and to make judgments that include social and ethical responsibilities related to the application of one's own contributions; 5. The master is able to judge the quality of his or her work or the work of others from scientific literature. <p>D. Communication</p> <p>The master can communicate information, ideas, problems and solutions to audiences of specialist in (other) research areas and to a general audience.</p> <p>Qualifications:</p> <p>The master has academically appropriate communicative skills; s/he can:</p> <ol style="list-style-type: none"> 1. Communicate original ideas effectively in written form; 2. Make effective oral presentations, both formally and informally, to a wide range of audiences; 3. Understand and offer constructive critiques of the presentations of others. <p>E. Learning Skills</p> <p>The master has developed those learning skills that are necessary for a successful further career at the highest professional level. The master is able to detect missing knowledge and abilities and to deal with them appropriately.</p> <p>Qualifications:</p> <ol style="list-style-type: none"> 1. Being able to reflect upon one's competences and knowledge and, if necessary, being able to take the appropriate corrective action; 2. The ability to follow current (scientific) developments related to the professional environment; 3. Showing an active attitude towards continued learning throughout a professional career. 	
<p>2. a) For the Main Track AI, please refer to the provisions in article 9.4 paragraph 1.</p> <p>b) Without prejudice to the provisions of paragraph 1, a graduate of the track</p>	<p>Approval OLC (7.13 b)</p>

<p>Cognitive Science will have the following knowledge and understanding in the field of Cognitive Science:</p> <p>A. Knowledge and Understanding</p> <ol style="list-style-type: none"> Has advanced understanding of Cognitive Science; Has knowledge of the experimental methods and findings from research into the cognitive psychology of behaviour; <p>B. Applying Knowledge and Understanding</p> <ol style="list-style-type: none"> Can apply empirical methods to improve the understanding of neurobiological processes and phenomena; Is capable of modelling behaviour to create opportunities for simulation and further analysis, exploiting the potential and limits of various representations, coupled with studies of computational mechanisms. <p>c) Without prejudice to the provisions of paragraph 1, a graduate of the track AI for Health will have the following knowledge and understanding in the field of AI for Health:</p> <p>A. Knowledge and Understanding</p> <ol style="list-style-type: none"> Has basic understanding of medical informatics Has advance understanding of knowledge on AI techniques applied in the health domain <p>B. Applying knowledge and understanding</p> <ol style="list-style-type: none"> Can apply AI techniques on medical knowledge and data, and is aware of strength and weaknesses of those methods. At least knowledge applied on two specific tasks in the health domain, for instance natural language processing on medical data, medical image recognition, prediction, diagnosis. 	
<p>3. Language proficiency may be taken into account in the assessment of (interim) examinations.</p>	<p>Approval OLC (7.13 c)</p>

Article 9.5 Language of instruction

<p>1. The language of instruction is English.</p>	<p>Approval OLC (9.18)</p>
<p>2. The 'Gedragcode vreemde taal' (Code of conduct foreign languages) applies.</p>	<p>Ordinance CvB, see Appendix III</p>

10. Curriculum structure

Article 10.1 Composition of the programme

<p>1. The programme comprises at least a package of compulsory components and an individual Master's thesis or academic internship.</p>	<p>Ordinance CvB, see Appendix III</p>
<p>2. Additionally the programme can offer:</p>	<p>Advice OLC; (7.13 a)</p>

<ul style="list-style-type: none"> - Practical exercises; - Electives. 	
3. Units of education are categorized as specialized (400), research oriented (500) and highly specialized (600) level.	Ordinance CvB, see Appendix III

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)
Evolutionary Computing	X_400111	6	400	
Multi-Agent Systems	XM_0052	6	400	
Knowledge Representation	XM_0059	6	400	
Socially Intelligent Robotics	XM_0074	6	400	
AI and Society	XM_0075	6	400	
Experimental Design and Data Analysis	X_405078	6	400	
Natural Language Processing	XM_0121	6	400	
<i>Constrained Choice (compulsory at least 1 course)</i>				
Cognitive Psychology and its Application	XM_40010	6	400	
Skills for AI	XM_0077	6	400	
<i>Constrained Choice ML (compulsory at least 1 course)</i>				
Deep Learning	XM_0083	6	500	
Data Mining Techniques	X_400108	6	500	
Machine Learning for the Quantified Self	XM_40012	6	400	
<u>Main track AI</u>				
Master Project AI	X_400285	30	600	
<u>Track Cognitive Science</u>				
Seminar Cognitive Neuroscience AI	P_MSEMCNS_AI	6	500	
Neural Models of Cognitive Processes AI	P_NEUMOD_AI	6	400	
Brain Imaging	P_MBRIMAG_AI	6	400	
<i>Constrained Choice Final Project (choose 1 course)</i>				
Master Thesis: Research Project Cognitive Science	P_MTHRCSC	30	600	
Master Project AI	X_400285	30	600	
<u>Track AI for Health</u>				
Medical Informatics Basics	XMU_0037	6	500	
AI for Medical Imaging	XMU_0045	6	500	
Medical AI	XMU_0038	6	500	
Machine Learning and Reasoning for Health	XM_0102	6	500	
Master Project AI	X_400285	30	600	

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)
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Name of educational component	course code	nr of EC	Level
<i>Artificial Intelligence (Deepening)</i>			
Mini master project AI	XM_400428	6	500
Intelligent Interactive Systems	XMU_418023	6	400
Advanced Machine Learning	XM_0010	6	400
Knowledge Organization	X_405065	6	500
Deep Learning	XM_0083	6	500
Dynamic Programming and Reinforcement Learning	XM_0093	6	400
Machine Learning and Reasoning for Health	XM_0102	6	500
Behaviour Dynamics in Social Networks	X_400113	6	400
The Social Web	X_405086	6	400
Learning Machines	XM_0061	6	500
Machine Learning for Graphs	XM_0119	6	600
Project Reinforcement Learning	XM_0120	6	500
Knowledge Representation on the web	XM_0060	6	400
Entrepreneurship in Analytics and AI	XM_0090	6	400
Advanced Logic	X_405048	6	500
Applications of Model Logic for AI	XM_0082	6	500
Data Mining Techniques	X_400108	6	500
Machine Learning for Quantified Self	XM_40012	6	400
<i>Language Technology</i>			
Subjectivity Mining	L_AAMPLIN018	6	500
Programming in Python for Text	L_AAMPLIN021	6	500
Machine Learning for NLP	L_AAMPLIN024	6	500
Communicative Robots	L_AAMPLIN029	6	500
Language as Data	L_PAMATLW001	6	400
Applied Text Mining 1: Methods	L_PAMATLW004	6	400
Applied Text Mining 2: Domains	L_PAMATLW005	6	400
Advanced NLP	L_AAMPLIN035	6	400
<i>Cognitive Science</i>			
Aging and Age related disorders	P_MAGEDIS	6	400
Seminar Cognitive Neuroscience	P_MSEMCNS_AI	6	500
Neural Models of Cognitive Processes	P_NEUMOD_AI	6	400
Behaviour Dynamics in Social Networks	X_400113	6	400
Brain Imaging	P_MBRIMAG_AI	6	400
Memory and Memory Disorders	P_MMEMORY	6	400
<i>Social Robotics</i>			
Essentials of Media Psychology	S_EMP	6	400
Communicative Robots	L_AAMPLIN029	6	500
Social Intelligent Robotics Project	XM_0076	6	500
Social Robotics	S_SR	6	400
<i>Bioinformatics</i>			
Fundamentals of Bioinformatics	X_405052	6	400

Algorithms in Sequence Analysis	X_405050	6	600
Structural Bioinformatics	X_405019	6	500
Bioinformatics for Translational Medicine	X_405092	6	500
<i>Application domain: Health Sciences</i>			
Health Psychology	AM_470730	6	400
Health Promotion and Disease Prevention	AM_470811	6	500
Prevention of Mental Health Problems	AM_470840	6	400
<i>Other electives</i>			
Web Data Processing Systems	XM_40020	6	400
History of digital cultures	XM_0134	6	400
ICT4D	X_405101	6	400
ICT4D in the field	XM_0008	6	400
<p>2. If the student wishes to take a different educational component than listed, permission must be obtained in writing from the Examinations Board in advance.</p> <ul style="list-style-type: none"> - Students can select courses from the MSc AI at the UvA. If it is not possible to register for these courses directly via the UvA, please contact the Programme Director. Please note that there is a limited capacity for each course. By default the UvA course will count as an extra-curricular course. However, if you want the course to count as an elective, permission must be obtained in writing from the Examinations Board. - Students may take Programming courses on bachelor level to improve their programming skills. If the student wishes to take a different educational component than listed, permission must be obtained in writing from the Examinations Board in advance. 			

Article 10.4 Practical exercise

Not applicable

Article 10.5 Participation in practical training and tutorials

1. In the case of a practical training, the lecturer determines the percentage of attendance of the practical sessions student must attend.	Approval OLC (7.13 d)
2. In the case of tutorials, the lecturer determines the percentage of attendance of the tutorials student must attend.	Approval OLC (7.13 d)

11. Evaluation and transitional provisions

Article 11.1 Evaluation of the education

1. The education provided in this programme is evaluated in accordance with the document 'Kwaliteitszorg Onderwijs BETA'.	Approval OLC (7.13 a1)
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Article 11.2 Transitional provisions

<p>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> <ul style="list-style-type: none"> - The course name and code of Natural Language Processing Technology L_AAMAALG005 has changed to Natural Language Processing XM_0121. All 	Advice OLC (7.13 a)
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<p>students who have not taken Natural Language Processing Technology L_AAMAALG005, should take Natural Language Processing XM_0121 starting from 2022/2023.</p> <p>Curriculum changes 2022/2023:</p> <ul style="list-style-type: none"> - Deep Learning XM_0083 has been added as a constrained choice under the Machine Learning constrained choices. - Machine Learning for Graphs XM_0119 and Project Reinforcement Learning XM_0120 are two new additional electives in the Deepening AI module in 2022/2023. - Communicative Robots L_AAMPLIN029 is an additional elective in the Language Technology module in 2022/2023. - The course code and course name for the elective NLP Technology L_AAMPLIN026 in the elective module Language Technology has changed to Advanced NLP L_AAMPLIN035. - Electives in Cognitive Science module: Aging and age-related disorders (P_MAGEDIS) has been rescheduled from period 1 to period 2. Seminar Attention (P_MSEMATT) has been rescheduled from period 1 (alternating year) to period 2 (every year). - AI for Health track changes: 1) Medical Informatics Basics XMU_0037 has been rescheduled from period 1 to period 6. It is already possible to register for and start the course in period 5. 2) There is a new course AI for Medical Imaging in the track AI for Health taught at the UvA (IvI) in period 1. 	
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Approval of the Programme Committee of the curriculum structure (submitted via UAS), on 8 December 2021.

Advice and approval by the Programme Committee (with the exception of the curriculum structure), on 24 May 2022.

Approved by the Faculty Joint Assembly, on 28 June 2022.

Adopted by the board of the Faculty of Sciences on 01-07-2022.

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

Based on Article 7.13, paragraph 2, of the WHW and other Articles of the Act.

Section A: Faculty section

2. Study programme structure	
Article 2.1 Structure of academic year and units of education	7.13 paragraph 2 sub e
3. Assessment and examination	
Article 3.2 Type of examination	7.13 paragraph 2 sub h, l, j
Article 3.3 Oral interim examinations	7.13 paragraph 2 sub l, n
Article 3.4 Determining and announcing results	7.13 paragraph 2 sub o
Article 3.5 Examination opportunities	7.13 paragraph 2 sub h, j
Article 3.7 Exemption	7.13 paragraph 2 sub r
Article 3.8 Validity period for results	7.13 paragraph 2 sub k
Article 3.9 Right of inspection and post-examination discussion	7.13 paragraph 2 sub p, q
4. Academic student counselling and study progress	
Article 4.1 Administration of study progress and academic student counselling	7.13 paragraph 2 sub u
Article 4.2 Facilities for students with a disability	7.13 paragraph 2 sub m

Section B1: Programme specific – general provisions

6. General programme information and characteristics	
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
7. Further admission requirements	
Article 7.2 Admission requirements	7.30b paragraph 1
Article 7.3 Selection criteria	7.30b paragraph 2, 5
8. Interim examinations and results	
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

9. Programme objectives, tracks/specializations, exit qualifications and language	
Article 9.1 Workload	7.13 paragraph 2 sub g
Article 9.2 Tracks and/or 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
Article 9.5 Language of instruction	9.18 (implementation expected in 2020)
10. Curriculum structure	
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a
Article 10.2 Compulsory units of education	7.13 paragraph 2 sub a
[Optional] Article 10.3 Elective units of education	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
11. Evaluation and transitional provisions	
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 advisory and approval rights of Programme Committees (OLC) and Faculty Joint Assembly (FGV)

(English below)

Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 lid 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 onderwijseenheden				
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 <u>binnen</u> 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

Afkortingen:

FGV:	Facultaire Gezamenlijke Vergadering
OplC:	Opleidingscommissie
I:	Instemmingsrecht
A:	Adviesrecht

Appendix II (English) Overview of advisory and approval rights of Programme Committees (OLC) and Faculty Joint Assembly (FGV)

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Article 7.13, paragraph 2, of the Higher Education and Research Act	FGV		OpIC	
	I	A	I	A
a. content of the programme and associated examinations				
a1. the manner in which teaching and education in the relevant programme are evaluated				
b. the content of the specializations offered as part of the programme				
c. the programme's final attainment levels with regard to the knowledge, understanding and skills				
d. where applicable, the design of practical exercises				
e. the workload of the programme and of each of its constituent educational units				
f. the detailed rules referred to in Article 7.8b, sixth paragraph, and Article 7.9, fifth paragraph (recommendation on continuation of studies)				
g. the Master's programmes to which Article 7.4a, eighth paragraph, applies (elevated workload)				
h. the number and sequence of interim examinations and the times at which these can be taken				
i. the full-time, part-time or work-study structure of the programme				
j. where necessary, the order, and the periods in which and the number of times per academic year that the opportunity to sit interim examinations and final degree assessments is given				
k. where necessary, the period of validity for pass grades awarded for interim examinations, notwithstanding the authority of the Examination Board to extend this period of validity				
l. whether interim examinations are administered in oral, written or another form, notwithstanding the authority of the Examination Board to decide otherwise				
m. the way in which students with a disability or chronic health condition are given a reasonable opportunity to take the interim examinations				
n. the public nature of oral interim examinations, subject to the right of the Examination Board to determine otherwise in special cases				
o. the period within which the results of an interim examination must be announced, together with details of whether this period can be altered and if so in what way				
p. the way in which and the period within which students who have taken an interim examination are given the opportunity to inspect their marked work				
q. the way in which and the period within which information can be provided about the questions asked and exercises given in the framework of a written interim examination and about the standards used for assessment				
r. the grounds on which the Examination Board could grant exemption from the taking of one or more interim examinations to students who have previously passed interim examinations in higher education or have acquired knowledge or skills outside higher education				
s. where necessary, the stipulation that students must pass certain interim examinations as a condition for admission to other interim examinations				
t. where necessary, the obligation to take part in certain practical exercises with a view to admission to the interim examination in question, subject to the authority of the Examination Board to grant exemption from this obligation, with or without the imposition of alternative requirements				
u. the monitoring of academic progress and individual student support and guidance				
v. where applicable, the manner in which students are selected for a special track within a programme as referred to in Article 7.9b (excellence track within a programme)				
x. the actual design of the education provided				
<i>All other matters that are regulated in the Academic and Examination Regulations but which are not mentioned as such in Article 7.13 of the Higher Education and Research Act under points a to x.</i>				

Abbreviations used:

- FGV: Faculty Joint Assembly
 OpIC: Programme Committee
 I: right of approval
 A: right of advice

Appendix III Ordinances VU CvB and Binding Guidelines (richtlijn)

Section A, article:	Concerns:	CvB ordinance / guideline
2.1.1, 2.1.2	Year planning two semesters 8-8-4 (uniform year calendar VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (period 2016-2025)
2.1.3, 2.1.4	Units of education	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
3.1	Signing up for education and interim examinations	CvB ordinance 30-09-2010, prior consent USR.
3.4.1	Determination and publication of the results (1) Grading deadline exams ten working days (2) Theses twenty working days	(1) Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017 (2) Quality demand 11 from the VU assessment policy, CvB ordinance 15-05-2012
3.5.1	Two possibilities to take examinations per year	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
3.5.2	Retake: Most recent grade is valid A pass can be retaken	Taken from the UvA guidelines, as part of the harmonization, CvB ordinance 24-02-2014
3.5.4	One-time extra resit in relation to examination requirement	Included in (prior) model OER 16-17 following a request from committee O&O and adopted by CvB op 27-10-2015
3.6	Grades	CvB ordinance 30-09-2010, with University council's consent. As a result of harmonization UvA, the guideline: 5.5 is a pass, has been added. CvB ordinance 24-02-2014.
Section B1, article:	Concerns:	CvB ordinance / guideline
7.2	Admission criteria; at least WO Bachelor's degree	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
7.3	Selection criteria; type of criteria	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
Section B1, article:	Concerns:	CvB ordinance / guideline
10.1	Composition programme	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
10.2	Categorization of units	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017

Appendix IV Article 2.1 of the Higher Education and Research (Implementation) Act (Uitvoeringsbesluit)

(English below)

1. De persoonlijke omstandigheden bedoeld in de artikelen 7.8b, derde lid, en 7.9, derde lid, van de wet, zijn uitsluitend:

- a. ziekte van betrokkene,
- b. lichamelijke, zintuiglijke of andere functiestoornis van betrokkene,
- c. zwangerschap van betrokkene,
- d. bijzondere familie-omstandigheden,
- e. het lidmaatschap, daaronder begrepen het voorzitterschap, van:

1. bij universiteiten: de universiteitsraad, faculteitsraad, het orgaan dat is ingesteld op grond van de medezeggenschapsregeling, bedoeld in artikel 9.30, derde lid, onderscheidenlijk artikel 9.51, tweede lid, van de wet, het bestuur van een opleiding of de opleidingscommissie, alsmede het lidmaatschap van het bestuur van een stichting die blijkens haar statuten tot doel heeft de exploitatie van voorzieningen, behorende tot de studentenvoorzieningen, dan wel van een daarmee naar het oordeel van het instellingsbestuur gelet op de taak gelijk te stellen orgaan,

2. bij hogescholen: de medezeggenschapsraad, deelraad, studentencommissie of opleidingscommissie.

f. andere in de regelingen, bedoeld in de artikelen 7.8b, zesde lid, en 7.9, vijfde lid, van de wet door het instellingsbestuur aan te geven omstandigheden waarin betrokkene activiteiten ontplooit in het kader van de organisatie en het bestuur van de zaken van de instelling,

g. het lidmaatschap van het bestuur van een studentenorganisatie van enige omvang met volledige rechtsbevoegdheid, dan wel van een vergelijkbare organisatie van enige omvang, bij wie de behartiging van het algemeen maatschappelijk belang op de voorgrond staat en die daartoe daadwerkelijk activiteiten ontplooit.

h. andere in de onderwijs- en examenregeling, bedoeld in artikel 7.13 van de wet, op grond van artikel 7.13, tweede lid, onderdeel f, van de wet, vast te leggen persoonlijke omstandigheden,

i. andere dan in de onderdelen a tot en met h bedoelde persoonlijke omstandigheden die, indien zij door het instellingsbestuur niet in de beoordeling zouden worden betrokken, zouden leiden tot een onbillijkheid van overwegende aard.

2. Het instellingsbestuur kan voor de toepassing van het eerste lid, onderdeel g, nadere regels vaststellen omtrent het aantal bestuursleden dat ten hoogste per organisatie per studiejaar in aanmerking komt, zomede omtrent welke bestuursfuncties in aanmerking komen.

Appendix IV (English) Article 2.1 of the Higher Education and Research (Implementation) Act

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1. The extenuating personal circumstances referred to in Article 7.8b, paragraph 3 and 7.9, paragraph 3 of the Act (WHW) are limited to:

- a. illness of the person concerned,
- b. physical, sensory or other impairment of the person concerned,
- c. pregnancy of the person concerned,
- d. extenuating family circumstances,
- e. membership, including the chairmanship of:

- 1. universities: the university council, faculty council, the body established under the participation regulation referred to in Article 9.30, paragraph 3, or Article 9.51, paragraph 2, of the Act, the programme management or the programme committee, or membership on the board of a foundation whose bylaws allow for the exploitation of facilities belonging to the student services, or an equivalent body with regard to its activities in the opinion of the board of the institution,
- 2. universities of applied sciences: the participation council, district council, student committee or programme committee,

- f. other circumstances to be designated by the board of the institution in the regulation as referred to in Article 7.8b, paragraph 6, and Article 7.9, paragraph 5, of the Act in which the person concerned engages in activities within the framework of the organization and the administration of the affairs of the institution,
- g. membership on the board of a student organization of a certain size with full legal capacity, or a similar organization of a certain size, whose primary task regards general societal interest and which actually develops activities for this purpose,
- h. other personal circumstances set out in the Teaching and Examination Regulations as referred to in Article 7.13 of the Act, pursuant to Article 7.13, paragraph 2, clause f of the Act,
- i. personal circumstances other than those referred to in a – h above which, if overlooked by the governing bodies of the institution, would lead to an obviously unfair outcome.

2. The institutional board may, for the purposes of the first paragraph, part g, establish specific rules regarding the maximum number of eligible board members per organization per academic year, as well as the eligible administrative offices.

Appendix V Addendum Teaching and Examination Regulations Master's degree programmes 2022-2023

Several articles for the 2022-2023 academic year will be temporarily suspended or amended as a result of the consequences of the measures to stop the spread of COVID-19. These amendments apply exclusively to the teaching and examination regulations mentioned below.

Applicability

This addendum applies to the following Master's degree programmes:

- Master's programme in Artificial Intelligence
- Master's programme in Biomedical Technology and Physics
- Master's programme in Biomolecular Sciences
- Master's programme in Business Analytics
- Master's programme in Computer Science (joint degree)
- Master's programme in Earth Sciences
- Master's programme in Ecology and Evolution
- Master's programme in Global Health (research)
- Master's programme in Hydrology
- Master's programme in Information Sciences
- Master's programme in Neurosciences (research)
- Master's programme in Science, Business and Innovation

This addendum applies to the following pre-master's programmes:

- Pre-master's programme in Artificial Intelligence
- Pre-master's programme in Biomedical Technology and Physics
- Pre-master's programme in Business Analytics
- Pre-master's programme in Computer Science (joint degree)
- Pre-master's programme in Earth Sciences
- Pre-master's programme in Ecology and Evolution
- Pre-master's programme in Hydrology
- Pre-master's programme in Information Sciences
- Pre-master's programme in Science, Business and Innovation

Teaching and Examination Regulations for Master's students, Section B1: Programme-specific section

Article 7.2 Admission requirements

<p>Supplementary to Article 7.2.1, students* are also admissible for the 2022-2023 academic year [admission in September 2022] if, by 31 August 2022 at the latest, they have earned at least 150 EC from the university (WO) Bachelor's programme or 210 EC from the HBO Bachelor's programme, under the following conditions:</p> <ul style="list-style-type: none"> • The Bachelor's degree certificate must still be obtained before 1 September 2023 or before the Master's degree certificate is obtained, whichever comes first. If this condition is not met, the student will not be able to continue or complete the Master's programme. • Additional admission requirements (not EC related) remain applicable. • English language proficiency requirements remain applicable. <p>also admissible, students* who, by no later than 31 August 2022, have earned at least 24 EC from the bridging or pre-Master's programme, under the following conditions:</p> <ul style="list-style-type: none"> • The bridging or pre-Master's programme must still be completed successfully before 1 September 2023 or before the Master's examinations can be passed, 	<p>Based on additional Section 7:37e WHW</p> <p>University Student Council's advice on policy (9:33a Higher Education and Research Act, second paragraph)</p>
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<p>whichever comes first. If this condition is not met, the student will not be able to continue or complete the Master's programme.</p> <ul style="list-style-type: none"> • Additional admission requirements (not EC related) remain applicable. • English language proficiency requirements remain applicable. <p>*The above supplementary requirements do not apply to non-EEA students who must complete a Bachelor's programme outside of the Netherlands.</p>	<p>Advice of the OLC on each programme via the Teaching and Examination Regulations</p>
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Article 7.4 Bridging or pre-Master's programme

<p>Supplementary to Article 7.4.1, students* are also admissible for the 2022-2023 academic year [admission in September 2022] if, by 31 August 2022 at the latest, they have earned at least 150 EC from the designated university (WO) Bachelor's programme or 210 EC from the designated HBO Bachelor's programme, under the following conditions:</p> <ul style="list-style-type: none"> • The Bachelor's examinations must still be passed before 1 September 2023, or before the bridging or pre-Master's programme is completed, whichever comes first. If this condition is not met, the student will not be able to complete or continue the programme. • Additional admission requirements (not EC related) remain applicable. • English language proficiency requirements remain applicable. <p>*The above supplementary requirements do not apply to non-EEA students who must complete a Bachelor's programme outside of the Netherlands.</p>	<p>Based on additional Section 7:37e WHW</p> <p>University Student Council's advice on policy (9:33a Higher Education and Research Act, second paragraph)</p> <p>Advice of the OLC on each programme via the Teaching and Examination Regulations</p>
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