

Teaching and Examination Regulations

Bachelorprogramme in Artificial Intelligence Faculty of Science

Academic year 2020-2021

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

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Several articles for the 2020-2021 academic year will be temporarily suspended or amended as a result of the measures to stop the spread of COVID-19. These changes are included in Appendix V.

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.	Advice OLC, approval FGV (9.38 sub b)
2. These Regulations enter into force on 1 September 2020.	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 the educational institution within and 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): 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:
- 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;
- n. programme: the totality and cohesion of the course components, 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. 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/>;
- s. study monitor: dashboard for students and academic advisors with data of the student (*studiemonitor*);
- t. subject: see 'educational component';
- u. substituting course/ educational component: 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'.
- v. track: full route of study within a broad bachelor's or master's degree programme or a fully English-language route of study within a Dutch-language bachelor's or master's degree;
- w. thesis/ internship work placement:: scientific research, always resulting in a written report;
- x. university: Vrije Universiteit Amsterdam;
- y. WHW: the Dutch Higher Education and Research Act (*Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek*);
- z. 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, 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 3

Article 2.2 Frame study programme

1. The programme consists in any case of the following components: a. Academic development of at least 24 EC b. Major/compulsory components of at least 90 EC c. Elective components of study of at least 30 EC	Ordinance CvB, see appendix 3
2. In the first year of the programme, the programme will offer at least fourteen contact hours a week.	Ordinance CvB, see appendix 3
3. In the second and third years of the programme, the programme will offer at least twelve contact hours a week.	Ordinance CvB, see appendix 3
4. Internationalization is included as part of the Bachelor's programme and reflected in one or more educational components.	Ordinance CvB, see appendix 3

Article 2.3. Sequence of the programme

1. Students are admitted to take courses in the third year of study if they: - Passed all examinations from the first year and; - Have obtained at least 30EC from the second year. Students who do not meet these conditions will not be admitted to third-year study components.	New article, faculty addition 2020-2021
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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 fails both the exam and the resit, the student must repeat the entire unit of study. This rule does not apply to practical exercises and programmes that make use of partial grades that retain their validity. For further regulations see Section B of the programme involved.	Advice OLC, approval FGV, (art. 7.13 x)

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 in special cases 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 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 [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
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 sentence of the first paragraph applies. b. The examiner will determine the result of the partial examination at least five working days prior to the next (partial) examination opportunity.	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)

Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations per educational component will be offered. b. By way of exception to a., 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 their degree, and; 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 Bachelor'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
5. If an educational component is no longer offered in the following academic year, one opportunity will be provided to sit the interim examination(s) or parts thereof during the current academic year and a transitional arrangement for the subsequent period will be included in the programme-specific section of the teaching and examination regulation (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 decimal point.	Ordinance CvB, see appendix 3																																																									
2. The final marks are given in whole or half points.	Ordinance CvB, see appendix 3																																																									
3. In deviation from paragraph 2, final marks between 5 and 6 will be rounded off to whole marks: up to 5.50 rounded down; from 5.50 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: <table><tr><th>From</th><th>To</th><th>Grade</th></tr><tr><td>1,00</td><td>1,24</td><td>1</td></tr><tr><td>1,25</td><td>1,74</td><td>1,5</td></tr><tr><td>1,75</td><td>2,24</td><td>2,0</td></tr><tr><td>2,25</td><td>2,74</td><td>2,5</td></tr><tr><td>2,75</td><td>3,24</td><td>3,0</td></tr><tr><td>3,25</td><td>3,74</td><td>3,5</td></tr><tr><td>3,75</td><td>4,24</td><td>4,0</td></tr><tr><td>4,25</td><td>4,74</td><td>4,5</td></tr><tr><td>4,75</td><td>5,49</td><td>5,0</td></tr><tr><td>5,50</td><td>6,24</td><td>6,0</td></tr><tr><td>6,25</td><td>6,74</td><td>6,5</td></tr><tr><td>6,75</td><td>7,24</td><td>7,0</td></tr><tr><td>7,25</td><td>7,74</td><td>7,5</td></tr><tr><td>7,75</td><td>8,24</td><td>8,0</td></tr><tr><td>8,25</td><td>8,74</td><td>8,5</td></tr><tr><td>8,75</td><td>9,24</td><td>9,0</td></tr><tr><td>9,25</td><td>9,74</td><td>9,5</td></tr><tr><td>9,75</td><td>10,0</td><td>10</td></tr></table>	From	To	Grade	1,00	1,24	1	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	Ordinance CvB, see appendix 3
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4. The Examination Board can allow to use 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 3																																																									

Article 3.7 Exemption

<p>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:</p> <p>a) has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level;</p> <p>b) has demonstrated through their work and/or professional experience that the student has sufficient knowledge and skills with regard to the relevant course component.</p>	Advice OLC; approval FGV (7.13 r)
2. The Bachelor's thesis is excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. A maximum of 60 EC of the curriculum can be accumulated through granted exemptions for one three-year bachelor programme. The substituting courses (educational components) are not included.	Advice OLC,

<p>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.</p> <p>The Examination Board may decide to deviate from this regulation for a programme.</p>	
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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, the student can, on request, inspect their assessed work, the questions and assignments set in it, as well as the standards applied for marking. The place and time will be announced at the time of the interim examination or on VUUnet 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 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.	Advice OLC; approval FGV (7.13 p en q)

4. Honours programme

Article 4.1 Honours programme

1. Vrije Universiteit Amsterdam offers an honours programme for students who meet the admission requirements. The Honours programme consists of educational components taken in addition to the standard curriculum.	Ordinance CvB, see appendix 3
2. The honours programme comprises 30 EC, a minimum of 12 EC of which consist of faculty or programme honours components and a minimum of another 12 EC consist of interfaculty honours components. The choices available to the student will be published on the website (www.vu.nl).	Ordinance CvB, see appendix 3
3. For admission to the honours programme, the student must have secured all credits from the first year and have been awarded a weighted average mark of at least a 7.5.	Ordinance CvB, see appendix 3
4. A student who has met the requirements of the regular Bachelor's programme within the nominal duration of study, who has achieved an average weighted mark of at least 7.5 for all components of the Bachelor's programme (excluded the honours components) and who has also met the requirements of the honours programme will receive a Bachelor diploma with a transcript indicating that the student has successfully completed the honours programme.	Ordinance CvB, see appendix 3
5. First-year Bachelor's students can participate in honours components during the second semester, on the condition that they have earned 30 EC during the first	Ordinance CvB, see appendix 3

semester with a weighted average of at least a 7.5. First-year students can only participate in honours components that are open for first-year students.	
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5. Academic student counselling, advice regarding continuation of studies and study progress

Article 5.1 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 their disposal in VU.net.	Advice OLC; approval FGV (7.13 u)
2. Enrolled students are eligible for academic student counselling. Academic student counselling is provided by <ol style="list-style-type: none"> The Student General Counselling Service Student psychologists Faculty academic advisors 	Advice OLC; approval FGV (7.13 u)

Article 5.2 Advice regarding continuation of studies

1. The faculty board will issue every student on a full-time Bachelor's programme with a recommendation on continuation of their studies, at the end of the first year of study. The recommendation on continuation of studies is issued on behalf of the faculty board by the faculty BSA committee.	Ordinance CvB, see appendix 3
2. Prior to 1 February, the student will receive an overview of their results.	Ordinance CvB, see appendix 3
3. A student who has not completed enough EC, will receive a warning stating that sufficient improvement is necessary to reach the standard for a positive recommendation on continuation of studies at the end of the academic year and will be advised to plan a meeting with an academic advisor.	Advice OLC (7.13 f)
4. If the recommendation at the end of the academic year is negative the provisions of Article 5.3 apply.	Advice OLC (7.13 f)
5. A recommendation will not be issued if the student terminates their enrolment before 1 February of their first academic year.	Advice OLC (7.13 f)

Article 5.3 Binding (negative) recommendation on continuation of studies (BSA)

1. The recommendation issued at the end of the academic year will contain a binding rejection if the student has not achieved the standard required for positive recommendation on continuation of studies. Recommendation on continuation of studies will not be issued if the student demonstrates that they did not meet the standard as described in Article 2.1 of the Higher Education and Research (Implementation) Act (<i>Uitvoeringsbesluit WHW</i>). In order to obtain a positive recommendation on continuation of studies, the student must have obtained at least 42 EC from first year courses by the end of the first year of enrolment.	Ordinance CvB, see appendix 3
2. As soon as possible after the last resits of the second semester of the first year, a student who has not met the standard will be informed that the faculty board intends to issue the student with negative binding recommendation on continuation of studies. The same procedure applies in the next year of enrolment if the student was permitted to continue with their study programme as a result of personal circumstances and has still not successfully met all of the requirements of the first year of study by that time. No recommendation will be issued to the student if they demonstrate that they again did not meet the standard as a consequence of personal circumstances.	Ordinance CvB, see appendix 3

3. Along with the information referred to in the previous paragraph, the student will also be informed of the possibility of being heard by the BSA committee and of how they can apply for such a hearing.	Ordinance CvB, see appendix 3
4. As soon as possible (no more than 10 working days) after the hearing and on the advice of the BSA committee, the faculty board will determine which students will be issued with a negative binding recommendation on continuation of studies.	Ordinance CvB, see appendix 3
5. Students may lodge an appeal against a decision on a binding negative recommendation on continuation of studies with the Examination Appeals Board of Vrije Universiteit Amsterdam within six weeks of the day of the decision's announcement.	Ordinance CvB, see appendix 3
6. Students who receive a binding negative recommendation on continuation of studies may therefore not enrol in the same Bachelor's programme or Bachelor's programme(s) with the same first year as defined in Article 14.1.2 of section B during a period of three years.	Ordinance CvB, see appendix 3

Article 5.4 Personal circumstances

1. The faculty board will not include a rejection in the binding recommendation on the continuation of studies in the case of personal circumstances, as described in Article 2.1 of the Higher Education and Research (Implementation) Act, as a result of which the student concerned cannot have been reasonably expected to have met the BSA standard.	Advice OLC (7.13 f)
2. If a circumstance, as described in Article 2.1 of the Higher Education and Research (Implementation) Act, should occur, the student must notify the academic adviser office as soon as possible, providing details of: <ul style="list-style-type: none"> a) the period in which the circumstance occurs or occurred; b) a description of the circumstance and its seriousness; c) the extent to which the student cannot or could not participate in instruction/classes or an interim examination. It is the student's responsibility to submit documentary evidence to substantiate their report.	Advice OLC (7.13 f)
4. If required, the academic advisor may advise the BSA Committee on the extent to which personal circumstances have influenced the student's study progress.	Advice OLC (7.13 f)

Article 5.5 Facilities 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 one or more special facilities with regard to teaching, practical training 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 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 rule 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 advisor to discuss the details of the facilities.	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.	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 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.	Advice OLC; approval FGV (7.13 m)
8. The decision as referred to in paragraph 5 is valid for a maximum period of one year with the exception for the chronic diseases and disabilities.	Advice OLC; approval FGV (7.13 m)

6. Hardship clause

Article 6.1 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 Examination Board.	Advice OLC; approval FGV (9.38 sub b)
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Section B1: Programme specific – general provisions

7. General programme information and characteristics

Article 7.1 Study programme information

1. The programme Artificial Intelligence (CROHO number 56945) is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
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Article 7.1a Deviant size of educational component

By way of derogation from art. 2.1 the units listed below have deviant size of 3 EC or 15 EC:			Approval OLC (art. 7.13 lid 2, under e), approval CvB
Course code	Name course	EC	
L_ETBAALG006	Academic Writing	3 EC	
X_400475	Computational Thinking	3 EC	
X_400318	History of Science	3 EC	
X_401089	Introduction to Artificial Intelligence	3 EC	
X_400433	Philosophy and Ethics	3 EC	
XB_40002	Bachelor Project Artificial Intelligence	15 EC	

Article 7.2 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 degree programme uses the following modes of assessment: The modes of assessment used per educational component are specified in the study guide.	Advice OLC; approval FGV (7.13 l)

Article 7.3 Academic student counselling

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

Article 8.1 Additional previous education requirements

1. Students who meet the previous education requirements as stipulated in the current 'Regulations on Additional Prior Education Requirements for Higher Education' (<i>Regeling nadere vooropleidingseisen hoger Onderwijs - OCW</i>) will gain access to the programme.	Legal provision
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2. Students who do not meet the previous education requirements as stimulated in 'Regulations on Additional Prior Education Requirements for Higher Education' currently in force may still be admitted to the programme by successfully completing one or more of the following exams: <ul style="list-style-type: none"> - Mathematics A equivalent to final-examination university entry level (VWO), and - A command of English equivalent to pre-university final-exam level (VWO) 	Exception in WHW: advice OLC
3. The language requirements and conditions for registration are included in the Application and Registration Regulation of the Vrije Universiteit Amsterdam.	Ordinance CvB, see appendix 3
4. Students who do not meet the previous education requirements but have successfully completed the first year of a higher professional education programme can gain admission to the programme by demonstrating that their level of mathematics is comparable to Mathematics B as taught in Dutch pre-university secondary school programmes. The Admission Board will assess whether these conditions have been met. These conditions include a sufficient command of the language of tuition.	Advice OLC; approval FGV (9.38 sub b)

Article 8.2 Colloquium doctum (entrance examination)

1. Persons aged 21 years and older who do not meet the requirements for previous education can submit a request to the Executive Board to take an entrance examination (colloquium doctum), as stipulated in Article 7.29 of the WHW. The entrance examination concerns the following subjects at final pre-university examination level: <ul style="list-style-type: none"> - Mathematics A equivalent to final-examination university entry level (VWO), and; - A command of English equivalent to pre-university final-exam level (VWO); - Evaluation with two members of staff. 	Advice OLC; approval FGV (9.38 sub b)
2. The proof that the entrance examination has been passed, only provides entitlement to admission to the intended programme or programmes for the academic year after the examination was taken.	Advice OLC; approval FGV (9.38 sub b)

9. Interim examinations and results

Article 9.1 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, 7.13 s/t)
2. Students may be admitted to the following specializations only if they have passed the interim examinations of the following educational components: <ul style="list-style-type: none"> - not applicable 	Advice OLC; approval FGV (7.13 h, 7.13 s/t)

Article 9.2 Validity period for results

1. The validity period of the interim examinations and exemptions from interim examinations below, is limited as follows: a. the academic year in which the examination took place If necessary, the examiner may decide to extend the validity of interim examinations and exemptions from interim examinations under extenuating circumstances	Advice OLC; approval FGV (7.13 k)
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

Section B2: Programme specific – content of programme

10. Programme objectives, specializations, exit qualifications and language

Article 10.1 Programme objective

<p>The programme aims at: providing students with a suitable basis (theoretical and practical) for a further career, both in education as well as in employment in the broad field of Artificial Intelligence. The bachelor must be prepared for a number of different roles and opportunities.</p> <p>The bachelor provides the student with the specific knowledge and abilities, exemplified in the form of a bachelor's diploma that allows the bachelor to apply for any master's programme in Artificial Intelligence or other national or international master's programmes, particularly in related disciplines.</p> <p>The bachelor prepares for a position in which the student can earn their own subsistence. In particular it prepares for:</p> <ul style="list-style-type: none"> • Supervised work on a national and international academic level; • Positions in the modern high-tech society, such as functions in knowledge intensive companies and knowledge intensive parts of the non-profit sector. <p>The bachelor provides sufficient training in (scientific) reasoning, conduct, and communication to reach internationally accepted standards of academic skills at that level.</p> <p>The bachelor's programme provides the bachelor with the knowledge and tools needed to form an informed opinion of the meaning and impact of Artificial Intelligence, and an informed notion of the responsibilities of a specialist in this area.</p>	<p>Advice OLC; (7.13 a)</p>
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Article 10.2 Tracks and/or specializations

<p>The programme has the following tracks and/or specializations</p> <ul style="list-style-type: none"> - Intelligent Systems; - Socially Aware Computing 	<p>Approval OLC; (7.13 b)</p>
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Article 10.3 Exit qualifications

<p>1. At all events, a graduate of the study programme will have knowledge and understanding in the field of Artificial Intelligence.</p> <p>The objectives of the Bachelor can be specified into final qualifications. To comply with international standards, these qualifications are presented below in terms of the Dublin descriptors.</p> <p>At all events, a graduate of the study programme will have knowledge and understanding in the field of:</p> <p>A. Knowledge and Understanding</p> <p>The bachelor demonstrates knowledge and understanding in a field of study that builds upon and supersedes their general secondary education. Knowledge and understanding is</p>	<p>Approval OLC (7.13 c)</p>
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typically at a level at which the bachelor, whilst supported by advanced textbooks, is able to include some aspects at the forefront of their field of study.

We distinguish two levels of qualification: a basic understanding, corresponding to knowledge of the essentials and fundamentals of the field in question, such as knowing what the field is, knowing how to apply knowledge in said field, and knowing how to further develop oneself in the field in question, and an advanced understanding, corresponding to in-depth knowledge about a topic in question.

Qualifications:

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

The 8 key areas are:

- a) (Cognitive) Psychology;
- b) Computational Linguistics;
- c) Context of Artificial Intelligence (History, Philosophy, Ethics);
- d) Intelligent Autonomous Agents and Multi-Agent Systems;
- e) Interaction (Human-Computer Interaction, Communication);
- f) Knowledge Representation and Reasoning;
- g) Machine Learning;
- h) Problem Solving (Search, Decision Making, Optimisation).

B. Applying Knowledge and Understanding

Bachelors can apply their knowledge and understanding in a manner that indicates a professional approach to their work or vocation, and have competences typically demonstrated through devising and sustaining arguments and solving problems and/or designing systems within their field of study. They are able to analyse, model and solve *prototypical* Artificial Intelligence problems by using *known* Artificial Intelligence methods and techniques.

Qualifications:

1. The ability to understand, apply, formulate, and validate models from the domains of Artificial Intelligence;
2. The ability to apply knowledge from the key areas of Artificial Intelligence. (as outlined in 10.3.1);
3. The ability to apply knowledge from the disciplines Computer Science, Logic and Mathematics to a level that is required to master the core AI knowledge and skills;
4. Analytical approach to problem solving and design:
 - a) Ability to comprehend (design) problems and abstract their essentials;
 - b) Ability to construct and develop logical arguments with clear identification of assumptions and conclusions.
5. The ability to submit an argument in the exact sciences to critical appraisal;
6. Analytical and critical way of thought and ability to apply logical reasoning;
7. Openness to interdisciplinary cooperation and ability to effectively participate therein as an academic professional;
8. The ability to create an effective project plan for solving a prototypical Artificial Intelligent problem in a realistic/real life context.
9. Manage one's own learning and development, including time management and organizational skills.

<p>10. The ability to transpose academic knowledge and expertise into (inter)national social, professional and economic contexts.</p> <p>11. Readiness to address new problems in new areas, emerging from scientific and professional fields.</p> <p>C. Making Judgements</p> <p>The bachelor has the ability to gather and interpret relevant data (typically within the field of study) and to formulate judgments that include reflection on relevant social, academic or ethical issues.</p> <p>Qualifications:</p> <ol style="list-style-type: none"> 1. Ability to critically review results, arguments and problem statements from accepted perspectives in the field of Artificial Intelligence and neighbouring disciplines; 2. Initial competence in search and critical processing of professional literature in Artificial Intelligence; 3. Acquaintance with the standards of academic criticism; 4. Awareness of, and responsible concerning, the ethical, normative and social consequences of developments in science and technology, particularly resulting from Artificial Intelligence. <p>D. Communication</p> <p>The bachelor can communicate information, ideas, problems and solutions to audiences of both domain-specialist and a general audience.</p> <p>Qualifications:</p> <ol style="list-style-type: none"> 1. Academically appropriate communicative skills; the bachelor can: <ol style="list-style-type: none"> a) Communicate ideas effectively in written form and through the use of Information and Communication Technology; b) Make effective oral presentations, both formally and informally; c) Understand and offer constructive critiques of the presentations of others. <p>E. Learning Skills</p> <p>The bachelor has developed those learning skills that are necessary for a successful further study characterised by a high degree of autonomy (typically in the context of a master or a specialist profession).</p> <p>Qualifications:</p> <ol style="list-style-type: none"> 1) Reflection on one's own style of thought and working methods and readiness to take the necessary corrective action; 2) Recognise the need for continued learning throughout a professional career. 	
<ol style="list-style-type: none"> 1) Without prejudice to the provisions of paragraph 1, a graduate of the track or specialization Aware Computing and Intelligent Systems will have the following knowledge and understanding in the field of <ol style="list-style-type: none"> a) Track Socially aware computing: advanced understanding of and insight in the field of hybrid artificial intelligence (interplay of artificial and human intelligence), including the required background knowledge of socially aware artificial 	<p>Approval OLC (7.13 b)</p>

<p>intelligence and ambient intelligence. The student has basic knowledge of physiological, psychological, or social aspects of human functioning that can be exploited in socially aware artificially Intelligent systems.</p> <p>b) Track Intelligent Systems: advanced knowledge of at least one of the key areas in AI that are specific to the construction and evaluation of Intelligent Systems (particularly, but not exclusively 1b, d, e, f, g, h).</p> <p>For each of the two tracks, a different type of advanced knowledge is expected up to a level that without further requirements grants access to the VU master programme in Artificial Intelligence, as well to master programmes in Artificial Intelligence and related areas (e.g Behavioural Science, Cognitive Science, Computational Science, Information Sciences and Computer Science) offered at other universities.</p>	
2. Language proficiency may be taken into account in the assessment of (interim) examinations	Approval OLC (7.13 c)

Article 10.4 Language of instruction and language test

1. The language of instruction is English.	Approval OLC (9.18)
2. The 'Gedragcode vreemde taal' (code of conduct foreign languages) applies	Ordinance CvB, see appendix 3
3. At the start of the first year of study every student must complete a diagnostic language test (VU_ELT) in the language of instruction of the programme.	Advice OLC; (7.13 a)
4. Any student who does not achieve a pass in the language test must take the 'Refresher Course' organized by the Language Desk (Taalloket).	Approval OLC (7.13 c)
5. The language test is part of the following educational component: B Artificial Intelligence (year 1). A mark can only be determined if the student has successfully completed the requirements of the educational component, including a pass in the language test or completing the Refresher Course.	Approval OLC (7.13 c)

11. Curriculum structure

Article 11.1 Academic development

1. Academic development is part of the study programme. This includes:: (1) Academic skills/critical reasoning (2) Methods & techniques (3) Philosophical training	Ordinance CvB, see appendix 3
2. Not applicable	Advice OLC; (7.13)
3. Academic skills/critical reasoning L_ETBAALG006 Academic Writing (BETA) 3 (2) Methods & techniques X_401096 Intro to Programming (Python) 6 X_401020 Statistical Methods 6 (3) Philosophical training X_400318 History of Science 3 X_400433 Philosophy and Ethics 3	Advice OLC; (7.13 a)
4. Not applicable	Advice OLC

	(art. 7.13 lid 2 WHW)
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Article 11.2 Major

1. The major comprises a package of compulsory and possibly optional units of study.	Ordinance CvB, see appendix 3
2. In addition, units of study are categorized as introductory (100), in-depth (200) and advanced (300) level.	Ordinance CvB, see appendix 3

Article 11.3 Compulsory educational components of the major

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

Name of educational component	course code	nr of EC	level	Advice OLC; (7.13 a)
Year 1				
Computational thinking	X_400475	3	100	
Introduction to Artificial Intelligence	X_401089	3	100	
Introduction Psychology Methods AI	P_BIPM_AI	6	100	
English Language Test	VU_ELT	0	100	
Introduction to Programming (Python)	X_401096	6	100	
Intelligent Systems	XB_0031	6	100	
Project Intelligent Systems	X_401076	6	200	
Logic and Sets	X_401090	6	100	
Dynamic Modelling for Human-Centered Systems	XB_0036	6	100	
Academic Writing (BETA)	L_ETBAALG006	3	100	
History of Science	X_400318	3	200	
Human-Computer Interaction	XB_0013	6	100	
Information Management	X_401085	6	100	
Year 2				
Knowledge and Data	X_400083	6	300	
Multi-Agent Systems	XB_0024	6	200	
Statistical Methods	X_401020	6	200	
Study and career for AI	XB_0022	0	200	
Linear Algebra	X_400649	6	200	
Machine Learning	X_400154	6	300	
Databases	X_401008	6	200	
Track Intelligent Systems				
Data Structures and Algorithms for AI	XB_0043	6	200	
Project Multi-Agent Systems	XB_0041	6	200	
Computational Intelligence	XB_0025	6	200	
Project Embodied AI	XB_0026	6	200	
Track Socially Aware Computing				
Robot Interaction	XB_0040	6	200	
Project Socially Aware Computing	XB_0042	6	200	
AI in Health	XB_0020	6	200	
AI in Health Project	XB_0021	6	200	
Year 3				

Bachelor project Artificial Intelligence	XB_40002	15	300	
Philosophy and Ethics	X_400433	3	200	
Text Mining	L_PABAALG002	6	300	
Cognitive Psychology for AI ¹	P_BCOGPSY	6	200	
Track Intelligent Systems				
Automata and Complexity	X_401049	6	300	
Track Socially Aware Computing				
Machine Learning	X_400154	6	300	

Article 11.4 Elective educational components of the major

Not applicable

Article 11.5 Practical exercise

Not applicable

Article 11.6 Participation in practical exercises 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 a practical training, the lecturer determines the percentage of attendance of the practical sessions student must attend.	Approval OLC (7.13 d)

12. Electives

Article 12.1 Elective period

1. The first semester of the third year of the curriculum comprises elective educational components.	Ordinance CvB, see appendix 3
2. For this elective period, the student can take: <ul style="list-style-type: none"> a) a minor (a coherent package of related educational components) b) individual choice of at least five educational components at the faculty or elsewhere, of which at least two (12 EC) must be at level 300, and maximum 1 course (6 EC) at level 100. c) an educational component of the university abroad. The same requirements apply as stated above. In addition, a maximum of one educational component of the master programme (6 EC) at level 400 or higher can be included in the package at a university abroad. The approval of the Examination Board is required. The educational component concerned, cannot be included in the master educational programme. 	Ordinance CvB, see appendix 3
3. Prior consent must be obtained from the Examinations Board.	Ordinance CvB, see appendix 3

Article 12.2 Minors

1. The student who meets the admission requirements can take a 'University minor' without prior consent from the Examination Board. The 'University minors' are listed on the VU website.	Ordinance CvB, see appendix 3
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¹ Cognitive Psychology is only offered as a resit in 2020/2021 for third year students. It will be part of the curriculum for new students starting in 2020/2021 following the SAC track, in their third year of study. The students who started before 2020/2021 took it in the second year.

1. The student can take one of the following minors without prior consent from the Examination Board:				Advice OLC; (7.13a)
Minor / Courses	Course code	EC	Level	
Minor Bioinformatics and Systems Biology				
<i>Minor BSB compulsory courses</i>				
Principles of Bioinformatics	X_401094	6	300	
Research Questions in Bioinformatics	XB_401081	6	300	
<i>Minor BSB electives</i>				
Evolutionary Genetics	AB_1022	6	300	
From Protein to Cell	AB_1052	6	300	
Molecular Cell Biology	AB_1053	6	300	
Knowledge and Data	X_400083	6	300	
Information Retrieval	X_400435	6	300	
Mechanics and thermodynamics in the cell	X_422589	6	400	
<i>HBO Bioinformatics / Biotechnology</i>				
Evolutionary Genetics	AB_1022	6	300	
Calculus	X_400617	6	100	
<i>Biomedical Sciences / Biology / HLO</i>				
Calculus	X_400617	6	100	
Introduction to Programming (Python)	X_401096	6	100	
<i>Artificial Intelligence</i>				
Biochemistry	AB_1137	6	100	
Calculus	X_400617	6	100	
<i>Medical Natural Sciences</i>				
Evolutionary Genetics	AB_1022	6	300	
Introduction to Programming (Python)	X_401096	6	100	
Minor Deep Programming				
<i>Minor DP constrained choice (30 EC required)</i>				
Compiler Construction	XB_0003	6	300	
Concurrency & Multithreading	X_401031	6	400	
Equational Programming	X_401011	6	300	
Secure programming	XB_40005	6	300	
Advanced Network Programming	XB_0048	6	300	
Project Autonomous Driving	XB_0045	6	200	
Minor Data Science				
<i>Minor DS required courses</i>				
Data Wrangling	XB_0014	6	300	
Introduction to Data Science	XB_0018	6	300	
<i>Minor DS constrained choice 1 (12 EC required)</i>				
Data Analytics and Privacy	R_DAP	6	300	
Information Retrieval	X_400435	6	300	
Logistics Analysis	X_401084	6	300	
<i>Minor DS constrained choice 2 (6 EC required)</i>				

Data Structures and Algorithms	X_400614	6	200
Strat. Management of Tech. and Innovation	E_BK3_SMTI	6	300
Minor Information Sciences			
<i>Minor IS required courses</i>			
Strat. Management of Tech. and Innovation	E_BK3_SMTI	6	300
<i>Minor IS constrained choice courses (24 EC required)</i>			
Information Retrieval	X_400435	6	300
Designing Solutions for Global Sustainability	AB_1231	6	300
Sustainable Supply Chain Management	E_IBA3_SSCM	6	300
Introduction to Digital Humanities	L_AABAALG076	6	200
Environment and Development	S_ED	6	200
Grand Challenges for Sustainability	E_IBA3_GCS	6	300
Educational minor			
<i>Compulsory courses</i>			
O_EMDID1	EM Didactiek 1	6	300
O_EMPRAK1	EM Praktijk 1	6	300
O_EMPEERGR	EM Peergroep	0	300
O_EMDID2	EM Didactiek 2	9	300
O_EMPRAK2	EM Praktijk 2	9	300

13. Honours programme

Article 13.1 Honours components

The components of the honours programme offered by the faculty or the programme are:

Name of educational component	course code	nr of EC	level	Advice OLC; (7.13)
1 Honours Research Project 1	X_HP003	6	300	
2. Honours Research Project 2	X_HP004	6	300	
3. Honours Research project 3	X_HP006	6	300	
4. Caput Elective ²	X_HP008	6	300	
Big Ideas in Computing ³	X_HP005	6	300	
Courses that can be selected from the Computer Science Programme				
5. Computer Networks	X_400487	6	100	
6. Software Design	XB_40007	6	200	
7. Logic and Modeling	X_401015	6	200	
Students following Intelligent Systems track can follow courses from the Socially Aware Computing track				
8. Robot Interaction	XB_0040	6	200	
9. AI in Health	XB_0020	6	200	
10. AI in Health Project	XB_0021	6	200	

² Every year the Department of Computer Science offers an extra Honours course in period 5, called *Caput Elective*. Contents reflect timely topics and depend on the availability of staff. Honours students are informed about this course in January.

³ In 2020/2021, the *Caput Elective* is X_HP005 Big Ideas in Computing.

Students following the Socially Aware Computing track can follow courses from Intelligent Systems track			
11. Data Structures and Algorithms for AI	XB_0043	6	200
12. Computational Intelligence	XB_0025	6	200
13. Project Embodied AI	XB_0026	6	200
14. Automata and Complexity	X_401049	6	300

14. Binding recommendation on continuation of studies (BSA)

Article 14.1 Binding (negative) recommendation

1. In order to obtain a positive recommendation on continuation of studies, the student must have obtained at least 42 EC from first year courses by the end of the first year of enrolment.	Advice OLC (7.13 f)
2. Students who receive a binding negative recommendation on continuation of studies cannot enroll in the following Bachelor's programme(s) offered by the Faculty during the subsequent three academic years: - Artificial Intelligence	Advice OLC (7.13 f)

15. Evaluation and transitional provisions

Article 15.1 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 15.2 Transitional provisions

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: - Not applicable	Advice OLC (7.13 a)
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Advice and approval by the Programme Committee, on June 2nd, 2020.

Approved by the Faculty Joint Assembly, on June 16th, 2020.

Adopted by the board of the Faculty of Science, on July 17th, 2020.

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.

Deel A: facultair deel

2. Study programme structure	
Article 2.1 Structure of academic year and educational components	7.13 paragraph 2 sub e
Article 2.2 Frame study programme	7.13 paragraph 2 sub a, e, x
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. Honours programme	
Article 4.1 Honours programme	7.13 paragraph 2 sub v
5. Academic student counselling, advice regarding continuation of studies and study progress	
Article 5.1 Administration of study progress and academic student counselling	7.13 paragraph 2 sub u
Article 5.2 Advice regarding continuation of studies	7.13 paragraph 2 sub f
Article 5.3 Binding (negative) recommendation on continuation of studies (BSA)	7.13 paragraph 2 sub f
Article 5.4 Personal circumstances	7.13 paragraph 2 sub f
Article 5.5 Facilities for students with a disability	7.13 paragraph 2 sub m

Section B1: Programme specific – general provisions

7. General programme information and characteristics	
Article 7.1 Study programme information	7.13 paragraph 2 sub i, r
Article 7.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x
Article 7.3 Academic student counselling	7.13 paragraph 2 sub u
8. Further admission requirements	
Article 8.1 Additional previous education requirements	7.25, paragraph 4
Article 8.2 Colloquium doctum (entrance examination)	7.29, paragraph 2
9. Interim examinations and results	
Article 9.1 Sequence of interim examinations	7.13 paragraph 2 sub h, s, t
Article 9.2 Validity period for results	7.13 paragraph 2 sub k

Section B2: Programme specific – content of programme

10. Programme objectives, tracks/specializations and exit qualifications	
Article 10.1 Programme objective	7.13 paragraph 2 sub a
Article 10.2 Tracks and/or specializations	7.13 paragraph 2 sub a
Article 10.3 Exit qualifications	7.13 paragraph 2 sub b, c
Article 10.4.1 Language of instruction	9.18 (implementation expected in 2020)
Article 10.4.3 Language test	7.13 paragraph 2 sub a, c
11. Curriculum structure	
Article 11.1 Academic development	7.13 paragraph 2 sub a
Article 11.2 Major	7.13 paragraph 2 sub a
Article 11.3 Compulsory educational components of the major	7.13 paragraph 2 sub a
Article 11.4 Elective educational components of the major	7.13 paragraph 2 sub a
Article 11.5 Practical exercise	7.13 paragraph 2 sub d
Article 11.6 Participation in practical exercise and tutorials	7.13 paragraph 2 sub d
12. Electives	

Article 12.1 Elective period	7.13 paragraph 2 sub a
Article 12.2 Minors	7.13 paragraph 2 sub a
13. Honours programme	
Article 13.1 Honours components	7.13 paragraph 2 sub a
14. Binding recommendation on continuation of studies (BSA)	
Article 14.1 Binding (negative) recommendation	7.13 paragraph 2 sub f
15. Evaluation and transitional provisions	
Article 15.1 Evaluation of the education	7.13 paragraph 2 sub a1
Article 15.2 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 underneath)

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 (<i>verhoogde studielast</i>)				
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 (<i>excellentietraject binnen een opleiding</i>)				
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.				

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)

Disclaimer: this is a translation which only serves as an aid. No rights may be derived from it. The Dutch document prevails.

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 study load 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 study load)				
h. the number and sequence of 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 examinations and final degree assessments is given				
k. where necessary, the period of validity for pass grades awarded for examinations, notwithstanding the authority of the Examination Board to extend this period of validity				
l. whether 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 examinations				
n. the public nature of oral examinations, subject to the right of the Examination Board to determine otherwise in special cases				
o. the period within which the results of an 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 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 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 examinations to students who have previously passed examinations in higher education or have acquired knowledge or skills outside higher education				
s. where necessary, the stipulation that students must pass certain examinations as a condition for admission to other examinations				
t. where necessary, the obligation to take part in certain practical exercises with a view to admission to the 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
OLC:	Programme Committee
I:	right of approval
A:	right of advice

Appendix III**Ordinances VU Executive Board (CvB) and Binding Bachelor's Guidelines (Bachelor Richtlijn)**

Deel A, Article:	Concerns:	CvB ordinance / guideline
2.1.1, 2.1.2	Year planning two semesters 8-8-4 (uniforme jaarkalender VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (periode 2016-2025)
2.1.3, 2.1.4	Fixed nr of EC	Bachelor-richtlijn, revised on 6 June 2017
2.2.1	Setup of the programme	Bachelor-richtlijn, revised on 6 June 2017
2.2.2, 2.2.3	Planning academic year (number of contact hours)	Bachelor-richtlijn, revised on 6 June 2017
2.2.4	Internationalization	CvB ordinance, following the advice of the Internationalization Board, in December 2008 and included in the IP
3.1.1, 3.1.2	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 10 workdays (2) theses 20 workdays	(1) Bachelor-richtlijn, 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	Bachelor-richtlijn, 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	Extra retake last year	Included in (prior) model OER 16-17 following a request from committee O&O and adopted by CvB op 28-10-2015
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.
4.1	Honours programme	Joint CvB ordinance UvA-VU, 28-10-2013 Revised 'Regeling VU-UvA Honoursprogramma' on 27-11-2018
5.2.1	Recommendation on continuation of studies (BSA)	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
5.2.2	Formal warning before February 1st.	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
5.3	Binding (negative) study advice	BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017 Kaderregeling revised on 12-09-2017
8.1.3	Application and Registration Regulation (RAI)	CvB ordinance 8-10-2019 (annually)
10.4.2	'Gedragscode vreemde taal' (Code of Conduct for foreign languages)	CvB ordinance 20-07-2009
11.1.1	Academische development	Bachelor-richtlijn, revised on 6 June 2017
11.2	Major	Bachelor-richtlijn, revised on 6 June 2017
12.1	Elective period (first semester, 3rd year)	Bachelor-richtlijn, revised on 6 June 2017
12.2.1	Participation in university minor	CvB ordinance Profileringsruimte 22-11-2010

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

Entered into force on 1 June 2018

(English underneath)

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.
- 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

Entered into force on 1 June 2018

Disclaimer: This is a translation which only serves as an aid. No rights may be derived from it. The Dutch document prevails.

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 woman concerned,
- d. extenuating family circumstances,
- e. membership, including the chairmanship of:

- 1. at 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. at universities of applied science: 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 any size with full legal capacity, or a similar organization of any size, whose primary task regards general societal interest and which actually develops activities for this purpose.

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 to the 2020-2021 Academic and Examination Regulations Bachelor's degree programmes

Several articles for the 2020-2021 academic year will be temporarily suspended or amended as a result of the measures to stop the spread of COVID-19. These amendments apply exclusively to the 2020-2021 academic year, which ends 31 August 2021. In this regard, reference is also made to the addendum to the Application and Registration Regulations for the 2020-2021 academic year.

Part A Faculty section

Article 2.3 Sequence of the programme

If a student is not admitted to courses in the third academic year due to the inability to complete previous course units as a result of the Corona measures, the student will contact the academic advisor. In consultation with the academic advisor, a request for exemption may be submitted to the Examination Board.

Article 5.3 Binding (negative) recommendation on continuation of studies

The first paragraph does not apply to students who failed to meet the standard for a positive recommendation on continuation of studies at the end of the 2019-2020 academic year. These students will be given another opportunity to meet the standard for a positive recommendation on continuation of studies at the end of the 2020-2021 academic year.

Part B2 Programme-specific section

Article 8.1 Additional educational requirements

Supplementary to paragraph 4, students from institutes of higher professional education (HBO) who are preparing for the first-year examination will be admitted to the Bachelor's programme, provided that:

- The student can produce a positive advisory on completion from his/her HBO institution, which must be provided to Vrije Universiteit Amsterdam (VU) by no later than 1 August.
- The student must still pass no more than one teaching unit of the first year of HBO, or in the case that more than one teaching unit must still be passed, these must be worth no more than 6 EC;

If the student has not passed the first-year examination of an HBO Bachelor's programme at the latest by 31 December 2020, the Bachelor's registration at VU will be terminated.

Article 14 Recommendation on continuation of studies (BSA)

The student to whom Article 5.3 of this addendum is applicable has by the end of the 2020-2021 academic year met the requirement as regards the BSA as formulated in Article 14 of the Academic and Examination Regulations for the 2019-2020 academic year.