

Teaching and Examination Regulations

Masterprogramme in Earth Sciences 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

3. Assessment and Examination

Article 3.1 Signing up for education and interim examinations

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

Article 3.2 Type of examination

1. At the 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, internships/ work placements and final assignments is no longer than twenty working days. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.	Ordinance CvB, see appendix 3
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 determines the result of an interim examination no later than five working days before the next (interim) examination will be held.	Advice OLC; approval FGV (7.13 o)
3. In the case of alternative forms of oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.	Advice OLC; approval FGV (7.13 o)

Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations per educational component will be offered.	Ordinance CvB, see appendix 3
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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.	
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: <ul style="list-style-type: none"> 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 Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide.	Ordinance CvB, see appendix 3
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:	Ordinance CvB, see appendix 3																																													
<table border="1" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>From</th> <th>To</th> <th>Grade</th> </tr> </thead> <tbody> <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> </tbody> </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
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	9,75	10,0	10	
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

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: <ol style="list-style-type: none"> has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level; has demonstrated through their work and/or professional experience that the student has sufficient knowledge and skills with regard to the relevant course component. 	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis, the final work placement (c.q. internship) and the final project (c.q. final paper) are excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. A maximum of 18 EC for a one-year master programme and 36 EC for a one two-year master programme can be accumulated through granted exemption. The substituting courses (educational components) are not included. 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. The Examination Board may decide to deviate from this regulation for a programme.	Advice OLC,

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 VUnet or Canvas.	Advice OLC; approval FGV (7.13 p en q)
2. If a collective post-examination discussion has been organized, individual post-examination discussions will be held only if the student has attended the collective 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. Academic student counselling and study progress

Article 4.1 Administration of study progress and academic student counselling

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

Article 4.2 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 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.	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)

5. Hardship clause

Article 5.1 Hardship clause

In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness and unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the 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 Earth Sciences CROHO number 66986 is offered on a full time basis.	Advice OLC; approval FGV (7.13 i)
1. The language of instruction is English with the exception of Sociale Geografie II (AM_1051) in the Education variant, see II. Education i)	Advice OLC; approval FGV (7.13 i)

Article 6.1a Deviant size of educational component

Code	Course name	EC	Approval OLC (art. 7.13 lid 2, under e), approval CvB
AM_1012	Hydrological Systems and Water Management.	3	
AM_1186	Master Thesis Geology and Geochemistry	27	
AM_1266	Research Project Global Environmental Change & Policy	15	
AM_1228	Thesis Project Earth and Climate	27	
AM_1264	Designing Interdisciplinary Research	3	
AM_1242	NIOZ summer course	3	
AM_450058	Sediment Petrography of Heavy Minerals	3	
AM_450061	Volcanism	3	
AM_450164	Precambrian Geology	3	
AM_450169	Diagenesis of Sedimentary Rocks	3	
AM_450171	Advanced Geochronology	3	
AM_450172	Advanced Inorganic Geochemistry	3	
AM_450179	Petroleum Systems and Regional Geology	3	
AM_450229	Introduction Field Excursion	3	
AM_450354	Scotland Excursion	3	

In rare cases units of study comprise deviating numbers of EC due to courses being offered at other Dutch universities with their own rules for the size of units of study.

Article 6.2 Teaching formats used and modes of assessment

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

Article 6.3 Academic student counselling

1. In addition to the student counselling mentioned in Section A, the respective coordinator for the different specializations is available for additional advice.	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 September 1.	Advice OLC; approval FGV (9.38 sub b)
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Article 7.2 Admission requirements

<p>1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree obtained at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills:</p> <ul style="list-style-type: none"> • knowledge: natural sciences (mathematics, physics, and chemistry) and earth sciences (BSc level geology/geochemistry/geophysics); • understanding: common processes in earth sciences; • skills: • general academic skills including analytical and critical thinking; • English language skills; • scientific writing skills as demonstrated by a BSc thesis or equivalent. <p>The Admissions Board will decide whether the applicant meets the admission requirements. Any individual who has obtained a Bachelor's degree Aardwetenschappen at the VU meets the requirements referred to in paragraph 1.</p>	<p>Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW</p>
<p>2. Applicants who wish to follow the track must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: Not applicable.</p>	<p>Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW</p>
<p>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.</p>	<p>Advice OLC; approval FGV (9.38 ub b)</p>
<p>4. An applicant should demonstrate sufficient level of proficiency in English by meeting at least one of the following standards, no more than two (2) years before the start of the programme at the VU: Not applicable.</p>	<p>Advice OLC; approval FGV (9.38 ub b)</p>
<p>5. Applicants are exempted from the requirements referred to in paragraph 4 if: Not applicable.</p>	<p>Advice OLC; approval FGV (9.38 ub b)</p>
<p>6. The following additional admission requirements for students with a Bachelor of Science degree in Earth Sciences (Aardwetenschappen) from Vrije Universiteit Amsterdam apply to specific specializations within the Master Earth Sciences:</p> <ol style="list-style-type: none"> a. Students who have successfully completed the Bachelor's degree examinations in Earth Sciences (specialization/afstudeerrichting Solid Earth/Vaste Aarde) will be admitted to the tracks Earth and Climate, G&G, Science Communication (C variant); b. Students who have in addition completed the component 'Sociale geografie I' (AB_450099), will be admitted to the track Education (E-variant). c. Students who have successfully completed the Bachelor's degree examinations in Earth Sciences (specialization/afstudeerrichting Earth Surface/Aardoppervlak) will be admitted to the tracks Earth and Climate, Global Environmental Change and Policy, and Science communication (C variant); d. Students who have in addition completed the component 'Sociale 	

<p>geografie I' (AB_450099), will be admitted to the track Education (E-variant).</p> <p>e. Students who have successfully completed the Bachelor's degree examinations in 'Aarde en Economie', including the minor Earth Surface (Aardoppervlak) will be admitted to the track Earth and Climate and Global Environmental Change and Policy, Science Communication (C variant);</p> <p>f. Students who have in addition completed the component 'Sociale geografie I' (AB_450099), will be admitted to the track Education (E-variant).</p> <p>g. Students who do not receive direct admission to a given specialization within the Master Earth Sciences based on their Bachelor's degree variant can still be admitted to the Master's programme in question on the grounds of a decision to that effect taken by the Admission Board of the Master. In taking this decision, the Admission Board will specify the track within the Master Earth Sciences to which the student in question is admitted. The Admission Board may make additional demands of the student before granting admission to the Master.</p>	
<p>7. Students who hold a Bachelor's degree in Earth Sciences from a Dutch university other than the Vrije Universiteit Amsterdam may be admitted to the Master Earth Sciences at Vrije Universiteit Amsterdam on the basis of a decision to that effect taken by the Admission Board of the Master. In taking this decision, the Admission Board will specify the specialization within the Master Earth Sciences to which the student in question is admitted. The Admission Board may make additional demands of the student before granting admission to the Master</p>	
<p>8. Students who hold a Bachelor's degree in a science or technical subject from a Dutch university may be admitted to the Master Earth Sciences at Vrije Universiteit Amsterdam on the basis of a decision to that effect taken by the Admission Board of the Master. The Admission Board will determine whether the Bachelor's programme completed by the candidate is sufficiently relevant to warrant admission to the Master Earth Sciences and will specify the specialization within the Master in Earth Sciences to which the candidate is admitted. The Admission Board may make additional demands of the student before granting admission to the Master's programme.</p>	
<p>9. Students who hold an equivalent qualification from an institution outside of the Netherlands may be admitted to the Master Earth Sciences at Vrije Universiteit Amsterdam on the basis of a decision to that effect taken by the Admission Board of the Master. In taking this decision, the Admission Board will specify the specialization within the Master Earth Sciences to which the student in question is admitted. The Admission Board may make additional demands of the student before granting admission to the Master's programme.</p>	
<p>10. When the programme commences, the candidate must have fully completed the Bachelor's programme allowing admission to this Master's programme.</p>	
<p>11. The Admission Board will decide whether the applicant meets the admission requirements.</p>	<p>Advice OLC; approval FGV (9.38 sub b)</p>

Article 7.3 Selection criteria

<p>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:</p> <ol style="list-style-type: none"> a. Motivation for the programme, demonstrated by a letter stating the motivation for the programme. b. A strong command of research methods from the relevant field, demonstrated by at least a mark of 7 for research subjects. c. A high general academic level, demonstrated by at least a mark of 7 for the bachelor thesis 	<p>Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW</p>
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Article 7.4 Pre-Master's programme

<p>1. The MSc Earth Sciences has no predefined pre-master programme.</p>	<p>Advice OLC; approval FGV (9.38 sub b)</p>
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8. Interim examinations and results**Article 8.1 Sequence of interim examinations**

<p>not applicable Students may participate in the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter: Not applicable.</p>	<p>Advice OLC; approval FGV (7.13 h, s & t)</p>
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Article 8.2 Validity period for results

<p>1. The validity period of the interim examinations and exemptions from interim examinations below, is limited as follows: See Article 3.8. No additional rules apply.</p>	<p>Advice OLC; approval FGV (7.13 k)</p>
<p>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.</p>	<p>Legal provision</p>
<p>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.</p>	<p>Legal provision</p>

Article 8.3 Maximum Exemption(s)

<p>A maximum of 36 EC of the curriculum can be accumulated through granted exemptions by the Exam Committee, based on previous results within other master's programmes.</p>	<p>Advice OLC, approval FGV (7.13 par. 2, under r jo art. 9.38 sub b)</p>
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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

The programme has the following tracks:	Approval OLC; (7.13 a)
<ul style="list-style-type: none"> ○ Geology and Geochemistry; ○ Earth and Climate; ○ Global Environmental Change and Policy. 	

Article 9.3 Programme objective

The programme aims to educate a graduate so that the student:	Advice (7.13 a)	Advice e OLC; (7.13 a)
<ol style="list-style-type: none"> 1. Has specific and fundamental theoretical and practical knowledge of Earth science, notably within his/her field of specialization. Insight into Earth processes requires further deepening of basic knowledge, understanding of a broad spectrum of spatial and temporal scales and an approach focusing on the interaction by and between the various Earth science and relevant socio-economic domains; 2. Has experience in carrying out research independently. This experience is gradually developed within the programme through exposure to research and interaction with active researchers and, ultimately, through active participation in research. This occurs in such a way that it allows the student to consciously decide whether he/she prefers to continue his/her studies in order to obtain a PhD degree or to take up a position outside the academic world; 3. Functions in his/her discipline at an academic level, both mentally and in daily practice; the programme stimulates the social and personal development of the student by motivating societal awareness, independence, communicative behavior and co-operation; 4. Recognizes the need to continue his/her education by following relevant developments within the field of Earth sciences to maintain a state-of-the-art knowledge basis; 5. Is able to start and successfully complete a PhD thesis or to successfully compete in the (inter-) national labor market for positions at an academic level with government or government-related institutions, private companies, or elsewhere; 6. Has insight into the broad historical, philosophical and socio-economic context of the discipline and aspects concerning the intellectual integrity and moral and ethical dimensions of scientific research and its applications. 		

Article 9.4 Exit qualifications

The objectives listed in the Programme Objectives (Article 9.3) have been translated into final exit qualifications of the three specializations of the MSc Earth Sciences programme in relation to Dublin descriptors. The exit qualification levels are listed below.	
Exit qualifications for the 'Geology and Geochemistry' – track	
A. Knowledge and insight	<i>The graduate has profound knowledge of and insight in:</i>

A1: The graduate has specialized theoretical and practical knowledge of the science of Geology and Geochemistry	<ul style="list-style-type: none"> - regional geological systems across the globe and their settings - relationships between geological and geochemical processes in Earth's interior (subduction, metamorphism, magmatism,
	<ul style="list-style-type: none"> tectonics) and related surface expressions and sedimentary deposits; - processes of heat and material transport within the earth's interior, and of large-scale mountain building and deformation; - interpretation techniques of subsurface geophysical and geological data; - techniques used in high-temperature geochemistry - fieldwork skills, i.e. linking theoretical knowledge and factual information to field observations;
B. Application of knowledge and insight in practice	<i>The graduate is able to:</i>
B1: The graduate is experienced in carrying out research	<ul style="list-style-type: none"> - formulate a problem based on raw data and/or data from literature and design a scientific approach for researching and solving the problem; - set up and execute a scientific investigation by selecting and applying fieldwork, analogue and/or numerical modelling and/or laboratory techniques associated with the subject of specialization. - develop conceptual and physical models suited for testing hypotheses;
B2: The graduate is able to apply scientific knowledge to problems raised in society	<ul style="list-style-type: none"> - discern the various geological and geochemical processes that are relevant to society; - use his/her knowledge and insight to debate the role that geology and geochemistry can play in several key aspects of society.
C. Critical judgement	<i>The graduate can:</i>
C1: The graduate is able to independently and critically judge (own) information	<ul style="list-style-type: none"> - understand professional literature and critically assess its quality and usefulness for own research; - understand the limitations of data, models, instruments and measurement techniques and how to take these into account for critically evaluating measurements.
C2: The graduate is able to think within a multidisciplinary framework	<ul style="list-style-type: none"> - think in a multidisciplinary way and recognize the importance of (sub)disciplines; - connect different types of factual information - understand the limits of geology and geochemistry research, i.e. realize that for some issues additional expertise should be brought in.
C3: The graduate has an understanding of his/her personal stronger and weaker points	<ul style="list-style-type: none"> - understand his/her personal stronger and weaker points, affinities, development potential and preferences in relation to the discipline chosen and the related professional potential.
D. Communication	<i>The graduate is able to:</i>
D1: The graduate is able to transfer knowledge and skills related to his/her subject area to other persons and is able to adequately reply to questions and problems posed within society	<ul style="list-style-type: none"> - clearly present information (on data, method, analysis, findings) both written and orally to a public of specialists; actively and constructively participate in discussions in the field of geology and geochemistry; - convey scientific findings to a public of non-specialists (i.e. colleagues from different disciplines, stakeholders, general public).

E. Learning Skills	<i>The graduate is able to:</i>
E1: The graduate has developed learning skills that enable him/her to educate and develop him/herself further in a specific subject area	<ul style="list-style-type: none"> - get acquainted with specific subject areas related to geology and geochemistry and link this to his/her knowledge; - recognize the local reality of complex issues;
	<ul style="list-style-type: none"> - independently collect, analyze and summarize information on geological and geochemical problems to extend his/her current knowledge.
E2: The graduate functions in his/her discipline at an academic level, both mentally and in daily practice	<ul style="list-style-type: none"> - compete in the international job market for positions related to geological and geochemical processes in academia, government, non-government organizations, private organizations, or elsewhere.
Exit qualifications for the 'Earth and Climate' – track	
A. Knowledge and insight	<i>The graduate has profound knowledge of and insight in:</i>
A1: The graduate has specialized theoretical and practical knowledge of the science of Earth and Climate	<ul style="list-style-type: none"> - climate systems Earth surface processes that operated both in the past and the present, and the interactions of the different components of the climate system; - global changes that occur at the earth surface at present and the interaction with climate and environmental variation at different spatial and temporal scales; - the processes that regulate the transfer of energy, water and trace gases between the land surface and the atmosphere; - mathematics, physics, chemistry and statistics in relation to geo- environmental sciences. - the proxies employed in palaeoclimate and geo-ecosystem research.
B. Application of knowledge and insight	<i>The graduate is able to:</i>
B1: The graduate is experienced in carrying out research	<ul style="list-style-type: none"> - formulate a problem based on raw data and/or data from literature and design a scientific approach for researching and solving the problem; - set up and execute a scientific investigation by selecting and applying the appropriate techniques to collect, process and analyze data); - develop conceptual and physical models suited for testing hypotheses; - programme, validate and calibrate Earth System models.
B2: The graduate is able to apply scientific knowledge to problems raised in society	<ul style="list-style-type: none"> - discern the various physical and biogeochemical processes that contribute to (future) climate change and their impact on sustainability; - use his/hers knowledge and insights in the political debate on the role that future climate developments play in society.
C. Critical judgement	<i>The graduate can:</i>
C1: The graduate is able to independently and critically judge (own) information	<ul style="list-style-type: none"> - understand professional literature and judge its quality and usefulness for own research; - understand the limitations of data, models, instruments and measurement techniques and how to take these into account for critically evaluating measurements;
C2: The graduate is able to think within a multidisciplinary framework	<ul style="list-style-type: none"> - think in a multidisciplinary way and recognize the importance of (sub)disciplines and connect different types of factual information - understand the limits of climate science , i.e. realize that for some issues other expertise should be brought in and there is a need for interdisciplinary co-operation;

C3: The graduate has an understanding of his/her personal stronger and weaker points	- understand his/her personal stronger and weaker points, affinities, development potential and preferences in relation to the discipline chosen and the related professional potential.
D. Communication	<i>The graduate is able to:</i>
D1: The graduate is able to transfer knowledge and skills related to his/her subject area to other persons and is able to adequately reply to questions and problems posed within society	<ul style="list-style-type: none"> - clearly present information (on data, method, analysis, findings) both written and orally to a public of specialists; - actively and constructively participate in discussions on climate issues; - convey scientific findings to a public of non-specialists (i.e. colleagues from different disciplines, stakeholders, general public);
E. Learning Skills	<i>The graduate is able to:</i>
E1: The graduate has developed learning skills that enable him/her to educate and develop him/herself further in a specific subject area	<ul style="list-style-type: none"> - get acquainted with subject areas related to earth and climate and link this to his/her knowledge; - recognize the local reality of complex issues, - independently collect, analyze and summarize information on climate and earth surface subjects to extend his/her current knowledge;
E2: The graduate functions in his/her discipline at an academic level, both mentally and in daily practice	- compete in the international market for positions related to climate science and earth surface processes in academia, government, non- government organizations, private organizations, or elsewhere.
Exit qualifications for the 'Global Environmental Change and Policy' – track	
A. Knowledge and insight	<i>The graduate has:</i>
A1: The graduate has specialized theoretical and practical knowledge of global environmental change and related policies and solutions.	<ul style="list-style-type: none"> - A profound knowledge of climate systems and ecosystems, environmental governance and environmental economics processes of, and solutions for, global environmental change. - Good knowledge of the interdisciplinary research process and related methodologies for analysis of environmental change. - Basic knowledge of global environmental change and associated policy/governance challenges. Depending on the focus of electives in this track, the graduate has profound knowledge of: Energy systems, their policy implications and policy solutions; - The water cycle and related risks, policy implications and policy solutions; - Basic functions of biodiversity and ecosystem services, the related challenges, policy implications and policy solutions.
B. Application of knowledge and insight	<i>The graduate is able to:</i>
B1: The graduate is experienced in carrying out research	<ul style="list-style-type: none"> - Apply and understand evaluation tools for policy assessment, such as stakeholder analysis, cost- benefit analysis, and multi-criteria analysis. - Apply GIS decision making techniques and modelling approaches on relevant global environmental change problems, and understand the interactions at the disciplinary interfaces.
B2: The graduate is able to apply scientific knowledge to problems raised in society	<ul style="list-style-type: none"> - Bridge the gap between industry, academia, government agencies and NGO's in dealing with climate and energy systems, water resource management, land use and ecosystem services. - Understand the positions in the political debate on the challenges and solutions for global environmental change.
C. Critical judgement	<i>The graduate can:</i>

C1: The graduate is able to independently and critically judge (own) information	<ul style="list-style-type: none"> - Understand professional literature and judge its quality and usefulness for own research. - Understand the limitations of data, models, instruments and measurement techniques and how to take these into. - Account for critically evaluating measurements.
C2: The graduate is able to think within a multidisciplinary framework	<ul style="list-style-type: none"> - Think in a multidisciplinary way and recognize the importance of (sub)disciplines and connect different types of factual information. - Understand and integrate various disciplinary perspectives with a view towards interdisciplinary perspectives.
C3: The graduate has an understanding of his/her personal stronger and weaker points	<ul style="list-style-type: none"> - Understand his/her personal stronger and weaker points, affinities, development potential and preferences in relation to the discipline chosen and the related professional potential.
D. Communication	<i>The graduate is able to:</i>
D1: The graduate is able to transfer knowledge and skills related to his/her subject area to other persons and is able to adequately reply to questions and problems posed within society	<ul style="list-style-type: none"> - Clearly present information (on data, method, analysis, findings) both written and orally to a public of specialists; - Actively and constructively participate in discussions on climate issues. - Convey scientific findings to a public of non-specialists (i.e. colleagues from different disciplines, stakeholders, general public).
E. Learning Skills	<i>The graduate is able to:</i>
E1: The graduate has developed learning skills that enable him/her to educate and develop him/herself further in a specific subject area	<ul style="list-style-type: none"> - Get acquainted with subject areas related to global environmental change and policy. - Recognize the local reality of complex issues (i.e. livelihoods, cultural and gender aspects, political preferences). - Independently collect, analyze and summarize information on policy and governance options to extend his/her current knowledge.
E2: The graduate functions in his/her discipline at an academic level, both mentally and in daily practice	<ul style="list-style-type: none"> - Compete in the international market for positions related to global sustainability in academia, government, non- government organizations, private organizations, or elsewhere.

Article 9.5 Language of instruction

1. The language of instruction is English.	Approval OLC (9.18)
2. The 'Gedragscode vreemde taal' (code of conduct foreign languages) applies	Ordinance CvB, see appendix 3

10. Curriculum structure

Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory components and an individual Master's thesis or academic internship.	Ordinance CvB, see appendix 3
2. Additionally the programme can offer <ul style="list-style-type: none"> - Practical exercises; - Electives; - Internship. 	Advice OLC; (7.13 a)

3. Educational components are categorized as specialized (400), research oriented (500) and highly specialized (600) level.	
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Article 10.2 Compulsory educational components

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

Article 10.2.1 Compulsory educational components | Research specializations

Educational component: Geology and Geochemistry track	course code	nr of EC	level	Advice OLC; (7.13 a)
Master Thesis Geology and Geochemistry	AM_1186	27	600	
Research Project Geology and Geochemistry	AM_1186	24	600	
Sedimentary Basins	AM_450154	6	400	
Regional Geology and Petroleum Systems	AM_450179	3	400	
Orogenesis	AM_450190	6	400	
Mantle Properties	AM_1211	6	400	
Designing Interdisciplinary Research	AM_1264	3	400	
Geology & Geochemistry Field Excursion	AM_450229	3	400	

Educational component: Earth and Climate track	course code	nr of EC	level	Advice OLC; (7.13 a)
Master Thesis Earth and Climate	AM_1228	27	600	
Research Project Earth and Climate	AM_1228	24	600	
Designing Interdisciplinary Research	AM_1264	3	400	
Choose 36 EC out of these:				
Climate Systems	AM_1124	6	400	
Landscape Dynamics	AM_450331	6	400	
Marine Geology & Paleoclimatology	AM_450330	6	400	
Tectonic Geomorphology	AM_450146	6	400	
Advanced Spatial Analyses	AM_1197	6	500	
Sedimentary Basins	AM_450154	6	400	
Climate Modelling	AM_450004	6	400	
Environmental Remote Sensing	AM_450145	6	400	
Global Biogeochemical Cycles	AM_450332	6	400	
Climate Dynamics and Processes	AM_1230	6	400	
Imaging and Assessing Landscapes	AM_1183	6	400	
Reflection Seismics	AM_450170	6	400	
Scotland Excursion	AM_450354	3	400	
Practical: Paleoclimate Change	AM_1144	6	400	

Educational component: Global Environmental Change and Policy track	course code	nr of EC	level	Advice OLC; (7.13 a)
Climate Systems	AM_1124	6	400	
Research Project GEC&P	AM_1266	15	600	
Master Thesis GEC&P	AM_1239	24 or 30	600	
Challenges and Solutions GEC&P	AM_1234	6	400	
Land Use Change and Ecosystems	AM_1235	6	400	
Methods of Environment and Resource Management	AM_1135	6	400	
Methods of Global Environmental Change	AM_1236	6	400	
Designing Interdisciplinary Research	AM_1264	3	400	
Climate Impacts & Policy	AM_1240	6	400	
Environmental Policy for GEC&P	AM_1241	6	400	

Advanced Spatial Analyses	AM_1197	6	500
Choose a minimum of 30 EC (in case of a 30EC master thesis AM_1239: 24 EC) out of these courses:			
Environmental Economics for GEC&P	AM_1232	6	400
Economics of Environmental Policy Instrument Design	E_STR_EEPID	6	400
Sustainable Energy Challenges	AM_468018	6	400
Ecohydrology	AM_450014	6	400
Geothermal Energy	AM_450409	6	500
Environmental Economics	E_STR_EEC	6	400
Water Quality	AM_1166	6	400
Groundwater Processes	AM_1164	6	400
Energy Governance	AM_1155	6	400
Governance of Ecosystem Services	AM_468025	6	400
Water Governance	AM_1192	6	400
Climate Hydrological Processes	AM_1196	6	400
Imaging and Assessing Landscapes	AM_1183	6	400
Man and Climate	AM_1057	6	500

Article 10.2.2 Compulsory educational components | Education

<i>Track Earth and Climate or Geology and Geochemistry</i>				
Earth Sciences content (60 EC)				Advice OLC; (7.13 a)
Earth Sciences specific component	course code	nr of EC	level	
Sociale geografie II (in Dutch)	AM_1051	12	400	
Research Project from one of the tracks	AM_1228 or AM_1186	24	600	
Compulsory Courses from same track as chosen research project		15		
Article 10.3 Elective educational components		9		
Educational content (60 EC)				
Compulsory units of the specialization				
Education specific component				
Master Leraar VHO Aardrijkskunde	OM1_LAK15			
Didactiek 1	O_MFDIDAC_1	6	400	
Didactiek 2	O_MFDIDAC_2	6	400	
Didactiek 3	O_MFDIDAC_3	9		
Praktijk 1	O_MFPRAK_1	6	400	
Praktijk 2	O_MFPRAK_2	9	400	
Praktijk 3	O_MFPRAK_3	15	400	
Praktijkonderzoek 1	O_MFPROZ_1	3		
Praktijkonderzoek 2	O_MFPROZ_2	6		
If the student is exempted for parts of the specialization in Education, the exempted EC have to be compensated with other mastercourses of the programme				
If the student wishes to take a different course than the units of study listed, advance permission must be obtained in writing from the Examinations Board.				

Article 10.2.3 Compulsory educational components | Science Communication

<i>Track Earth and Climate or Geology and Geochemistry</i>				Advice OLC; (7.13 a)
Earth Sciences content (60 EC)	course code	nr of EC	level	
Earth Sciences specific component				
Research Project from one of the track	AM_1228 or AM_1186	24	600	
Compulsory Courses from same specialization as chosen research project		27	400, 500	
Article 10.3 Elective educational components		9		
Science Communication content (42EC) compulsory courses				
Science communication specific component				
Science and Communication	AM_470587	6	500	
Research methods for analyzing complex problems	AM_1182	6	400	
Designing Interdisciplinary Research	AM_1264	3		
Choose one of these courses:				
Research Internship Science Comm.	AM_1162	30	600	
Reflective Practice Int. SC. Comm.	AM_1163	30	600	
<i>Science Communication Restricted electives (18 EC required) choose 3 out of 4:</i>				
Science in Dialogue	AM_1002	6	500	
Communication, Org. and Management	AM_470572	6	500	
Science Museology	AM_470590	6	500	
Science Journalism	AM_471014	6	500	

<i>Track Global Environmental Change and Policy</i>				Advice OLC; (7.13 a)
Earth Sciences content (60 EC)	course code	nr of EC	level	
Earth Sciences specific component				
Research Project	AM_1266	15	600	
Compulsory Courses from same track as chosen research project		33	400, 500	
Designing Interdisciplinary Research	AM_1264	3		
From Article 10.3 Elective educational components		9		
Science Communication content (42EC) compulsory courses				
Science communication specific component				
Science and Communication	AM_470587	6		
Research methods for analyzing complex problems	AM_1182	6	500	
Choose one of these courses:				
Research Internship Science Comm.	AM_1162	30		
Reflective Practice Int. SC. Comm.	AM_1163	30	600	
<i>Science Communication Restricted electives (18 EC required) choose 3 out of 4:</i>				
Science in Dialogue	AM_1002	6		

Communication, Org. and Management	AM_470572	6	500
Science Museology	AM_470590	6	500
Science Journalism	AM_471014	6	500
			500

Article 10.3 Elective educational components

1. The student can take one or more of the following electives without prior consent from the Examination Board:				Advice OLC; (7.13 a)
Name of educational component	course code	nr of EC	level	
Biological Oceanography	AMU_0021	6	500	
Science Journalism	AM_471014	6	500	
Geothermal Energy	AM_450409	6	500	
Scotland Excursion	AM_450354	3	400	
Global Biogeochemical Cycles	AM_450332	6	400	
Marine Geology & Paleoclimatology	AM_450330	6	400	
Petroleum Geology of the North Sea	AM_450317	6	400	
3D Seismic Interpretation and Geology	AM_450316	6	400	
Planetary Science	AM_450273	6	500	
Man and Climate	AM_450187	6	400	
Metamorphic Geology	AM_450176	6	400	
Advanced Inorganic Geochemistry	AM_450172	6	400	
Advanced Geochronology	AM_450171	3	400	
Reflection Seismic for Geologists	AM_450170	6	400	
Diagenesis of Sedimentary Rocks	AM_450169	3	400	
Precambrian Geology	AM_450164	3	400	
Tectonic Geomorphology	AM_450146	6	400	
Environmental Remote Sensing	AM_450145	6	400	
Extension Master Thesis Earth Sciences	AM_450149	12	400	
Volcanism	AM_450061	3	500	
Sediment Petrography of Heavy Minerals	AM_450058	3	400	
Ecohydrology	AM_450014	6	400	
Climate Modelling	AM_450004	6	400	
Catchment Response Analysis	AM_450003	6	400	
NIOZ Marine Masters Summer Course	AM_1242	3	400	
Climate Impacts & Policy	AM_1240	6	400	
Land Use Change and Ecosystems	AM_1235	6	400	
Climate Dynamics and Processes	AM_1230	6	400	
Petrophysics and Reservoir Engineering	AM_1212	6	400	
Advanced Spatial Analyses	AM_1197	6	400	
Capita Selecta Geology and Geochemistry	AM_1174	6	400	
Advanced Geodynamics and Tectonics	AM_1173	6	400	
Climate Systems	AM_1124	6	400	
Specialist Research Topic	AM_1056	6	600	
Sociale geografie II	AM_1051	12	400	
Metropole Ecology	AM_1199	6	400	
Multidisciplinary Uncertainty Management and Mitigation	AM_1249	6	400	
2. If the student wishes to take a different educational component than listed, advance permission must be obtained in writing from the Examinations Board.				Advice OLC; (7.13 a)

Article 10.4 Practical exercise

The following components can be considered as practical exercises:				Approval OLC (7.13 d)
Name of educational component	course code	nr of EC	level	
Practical: Paleoclimate Change	AM_1144	6	400	

Article 10.5 Participation in practical training and tutorials

1. In the case of a practical training, the student must attend at least 90% of the practical sessions. Should the student attend less than 90%, the student must repeat the practical training, or the Examinations Board may have one or more supplementary assignments issued.	Approval OLC (7.13 d)
In the case of a tutorial, the student must attend at least: not applicable.	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

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 3rd, 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.

Section A: Faculty section

2. Study programme structure	
Article 2.1 Structure of academic year and educational components	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 (<i>implementation expected in 2020</i>)
10. Curriculum structure	
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a
Article 10.2 Compulsory educational components	7.13 paragraph 2 sub a
[Optional] Article 10.3 Elective educational components	7.13 paragraph 2 sub a
[Optional] Article 10.4 Practical exercise	7.13 paragraph 2 sub d
Article 10.5 Participation in practical training and tutorials	7.13 paragraph 2 sub d
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 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				
<i>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.</i>				

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)

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 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 (uniforme jaarkalender VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (periode 2016-2025)
2.1.3, 2.1.4	Educational components	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 10 workdays (2) Theses 20 workdays	(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	Extra retake last year	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 components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017

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 Master's degree programmes

Several articles for the 2020-2021 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 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 B1 Programme-specific section

Article 7.2 Admission requirements

Supplementary to Article 7.2.1, students* are also admissible for the 2020-2021 academic year (start date September 2020) if, at the latest by 31 August 2020

they have earned at least 150 EC of the Bachelor's programme (university in The Netherlands or EEA (European Economic Area)) that confers entitlement to admission, under the following conditions:

- The Bachelor's degree certificate must still be obtained before 1 September 2021 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.

they have earned at least 24 EC of the bridging or pre-Master's programme, under the following conditions:

- The bridging or pre-Master's programme must still be successfully completed before 1 September 2021 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.

*The above supplements do not apply to non-EEA students who must complete a Bachelor's programme outside of the Netherlands.

Article 7.4 Bridging or pre-Master's programme

Supplementary to Article 7.4.1, students* are also admissible for the 2020-2021 academic year (start date September 2020) if, at the latest by 31 August 2020 they have earned at least 210 EC of the designated HBO Bachelor's programme, under the following conditions:

- The HBO Bachelor's diploma must still be obtained before 1 September 2021 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.

*The above supplements do not apply to non-EEA students who must complete a Bachelor's programme outside of the Netherlands.