

Teaching and Examination Regulations

Faculty of Science

Master's programme in Drug Discovery Sciences

Academic year 2024-2025

A. Faculty section

B1. Programme specific section – general provisions

B2. Programme specific section – content of programme

Index

INDEX	2
SECTION A: FACULTY SECTION	4
1. GENERAL PROVISIONS	4
ARTICLE 1.1 APPLICABILITY OF THE REGULATIONS.....	4
ARTICLE 1.2 DEFINITIONS	4
2. STUDY PROGRAMME STRUCTURE.....	6
ARTICLE 2.1 STRUCTURE OF ACADEMIC YEAR AND UNITS OF EDUCATION	6
3. ASSESSMENT AND EXAMINATION	6
ARTICLE 3.1 SIGNING UP FOR EDUCATION AND EXAMINATIONS	6
ARTICLE 3.2 TYPE OF EXAMINATION.....	6
ARTICLE 3.3 ORAL EXAMINATIONS.....	6
ARTICLE 3.4 DETERMINING AND ANNOUNCING RESULTS	6
ARTICLE 3.5 EXAMINATION OPPORTUNITIES	7
ARTICLE 3.6 MARKS	7
ARTICLE 3.7 EXEMPTION	8
ARTICLE 3.8 VALIDITY PERIOD FOR RESULTS.....	8
ARTICLE 3.9 RIGHT OF INSPECTION AND POST-EXAMINATION DISCUSSION	8
4. ACADEMIC STUDENT COUNSELLING AND STUDY PROGRESS.....	9
ARTICLE 4.1 ADMINISTRATION OF STUDY PROGRESS AND ACADEMIC STUDENT COUNSELLING	9
ARTICLE 4.2 FACILITIES FOR STUDENTS WITH A DISABILITY OR IMPAIRMENT.....	9
5. HARDSHIP CLAUSE	10
ARTICLE 5.1 HARDSHIP CLAUSE.....	10
SECTION B1: PROGRAMME SPECIFIC – GENERAL PROVISIONS.....	11
6. GENERAL PROGRAMME INFORMATION AND CHARACTERISTICS	11
ARTICLE 6.1 STUDY PROGRAMME INFORMATION.....	11
ARTICLE 6.2 TEACHING FORMATS USED AND MODES OF ASSESSMENT	11
ARTICLE 6.3 ACADEMIC STUDENT COUNSELLING.....	11
7. FURTHER ADMISSION REQUIREMENTS	11
ARTICLE 7.1 INTAKE DATE(S)	11
ARTICLE 7.2 ADMISSION REQUIREMENTS.....	11
ARTICLE 7.3 SELECTION CRITERIA	13
ARTICLE 7.4 PRE-MASTER'S PROGRAMME	14
8. EXAMINATIONS AND RESULTS	14
ARTICLE 8.1 SEQUENCE OF EXAMINATIONS	14
ARTICLE 8.2 VALIDITY PERIOD FOR RESULTS.....	14
SECTION B2: PROGRAMME SPECIFIC – CONTENT OF PROGRAMME.....	15
9. PROGRAMME OBJECTIVES, TRACKS/SPECIALISATIONS, EXIT QUALIFICATIONS AND LANGUAGE	15
ARTICLE 9.1 WORKLOAD	15
ARTICLE 9.2 TRACKS AND/OR SPECIALISATIONS.....	15
ARTICLE 9.3 PROGRAMME OBJECTIVE	15
ARTICLE 9.4 EXIT QUALIFICATIONS.....	15
ARTICLE 9.5 LANGUAGE OF INSTRUCTION	17
10. CURRICULUM STRUCTURE	17

ARTICLE 10.1 COMPOSITION OF THE PROGRAMME	17
ARTICLE 10.2 COMPULSORY UNITS OF EDUCATION	17
ARTICLE 10.2A COMPULSORY UNITS OF EDUCATION TRACK BIOANALYTICS	19
ARTICLE 10.2B COMPULSORY UNITS OF EDUCATION TRACK SYNTHESIS OF DRUGS	20
ARTICLE 10.2C COMPULSORY UNITS OF EDUCATION TRACK MOLECULAR PHARMACOLOGY.....	20
ARTICLE 10.2D COMPULSORY UNITS OF EDUCATION TRACK MOLECULAR TOXICOLOGY	20
ARTICLE 10.2E COMPULSORY UNITS OF EDUCATION TRACK COMPUTER-AIDED DRUG DESIGN.....	21
ARTICLE 10.3 ELECTIVE UNITS OF EDUCATION.....	21
ARTICLE 10.4 PRACTICAL EXERCISE	23
ARTICLE 10.5 PARTICIPATION IN PRACTICAL TRAINING AND TUTORIALS	23
11. EVALUATION AND TRANSITIONAL PROVISIONS	23
ARTICLE 11.1 EVALUATION OF THE EDUCATION.....	23
ARTICLE 11.2 TRANSITIONAL PROVISIONS	23
APPENDIX I OVERVIEW OF ARTICLES THAT MUST BE INCLUDED IN THE OER	25
SECTION A: FACULTY SECTION	25
SECTION B1: PROGRAMME SPECIFIC – GENERAL PROVISIONS	25
SECTION B2: PROGRAMME SPECIFIC – CONTENT OF PROGRAMME	25
APPENDIX II OVERVIEW OF ADVISORY AND APPROVAL RIGHTS OF PROGRAMME COMMITTEES (OLC) AND FACULTY JOINT ASSEMBLY (FGV)	26
APPENDIX II (ENGLISH) OVERVIEW OF ADVISORY AND APPROVAL RIGHTS OF PROGRAMME COMMITTEES (OLC) AND FACULTY JOINT ASSEMBLY (FGV).....	27
APPENDIX III ORDINANCES VU CVB AND BINDING GUIDELINES (RICHTLIJN)	28
APPENDIX IV ARTICLE 2.1 OF THE HIGHER EDUCATION AND RESEARCH (IMPLEMENTATION) ACT (UITVOERINGSBESLUIT)	29
APPENDIX IV (ENGLISH) ARTICLE 2.1 OF THE HIGHER EDUCATION AND RESEARCH (IMPLEMENTATION) ACT	30

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 2024.	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. EC (European Credit): a course credit with a workload of 28 hours of study;
- c. examination: an assessment of the student's knowledge, understanding and skills relating to a unit of education. The assessment is expressed in terms of a final mark. An examination may consist of one or more partial examinations. A resit always covers the same material as the original examination. An examination can be completed in writing, orally or in another way;
- d. 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;
- e. final examination: a master's programme consists of a master's examination;
- f. internship: period spent working in professional practice as part of a study programme;
- g. 1. 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;
2. double degree: partnership between two study programmes, either within the institution or with another educational institution inside or outside the Netherlands, whereby students complete all or part of both study programmes and obtain two diplomas on the basis of agreements regarding the mutual recognition of the programme (replacement courses);
- h. minor: a set of thematically related units of education totalling 30 credits. Students choose a minor in order to broaden and/or deepen their studies (within the scope for electives) during the Bachelor's programme;
- i. period: a part of a semester;

- j. 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;
- k. programme: the totality and cohesion of the units of education, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
- l. SAP/SLM: the student information system (*Student Lifecycle Management*);
- m. semester: the first (September - January) or second (February - August) half of an academic year;
- n. specialisation: optional route of study within a degree programme indicating a deepening of the context of the programme (e.g. interdisciplinary or multidisciplinary);
- o. student person studying;
- p. student statute: sets out the rights and responsibilities of students on the one hand, and of Vrije Universiteit Amsterdam on the other hand, including those derived from the law and those derived from university regulations. The Executive Board (CvB) officially confirms the student statute once its completeness has been approved by the University Student Council (USC);
- q. 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 online at <https://studiegids.vu.nl/en#/>;
- r. study monitor: dashboard for students and academic advisors with data of the student and that provides insight into the student's study progress;
- s. subject: see w. 'unit of education';
- t. substituting course/unit of education: see under g (double degree programme). A course obtained at the educational institute, within the context of cooperation, that is mentioned in the diploma supplement as such; not being an 'exemption';
- u. thesis a unit comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
- v. track: a study pathway within a broader Bachelor's or Master's degree programme, such as a fully English-language study pathway within a Dutch-language Bachelor's or Master's programme;
- w. unit of education: a unit of study of the programme within the meaning of the WHW;
- 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 education to which an 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.

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

2. Study programme structure

Article 2.1 Structure of academic year and units of education

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

3. Assessment and examination

Article 3.1 Signing up for education and examinations

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

Article 3.2 Type of examination

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

Article 3.3 Oral examinations

1. No more than one student will be examined orally at a time, unless specified otherwise in part B for the relevant unit of education.	Advice OLC; approval FGV (7.13 l and n)
2. A second examiner is present when an oral examination is being held, unless the Examination Board has determined otherwise. The oral examination takes place at a time and location to be determined by the examiner within the regular timetable, on campus or online. At the request of the student, and with the approval of the examiners, an audio recording can be made. Should the second examiner not be available unexpectedly, an audio recording of the oral exam can be made. This audio recording is retained by the university for the retention period applicable for examinations.	Advice OLC; approval FGV (7.13 l and n)

Article 3.4 Determining and announcing results

1. The examiner determines the result of a written examination within fifteen working days. However, the marking deadline for theses and final assignments is twenty working days after submission. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.	Ordinance CvB, see Appendix III
2. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, but at the latest within one working day after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies.	Advice OLC; approval FGV (7.13 o)

3. In the case of assessments other than oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.	Advice OLC; approval FGV (7.13 o)
--	---

Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations will be offered for each unit of education. b. By way of exception to a., the options for retaking practical exercises, work placements and theses are detailed in the relevant work placement manual, course manual of teaching regulations.	Ordinance CvB, see Appendix III
2. The most recent mark will apply in the event of a resit. A resit is allowed for both passed and failed units of study.	Ordinance CvB, see Appendix III
3. The resit for an (partial) examination may not take place within ten working days of the announcement of the results for the original (partial) examination. Exceptions are only possible in period 6.	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) lacks 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 exercises and the Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide.	Ordinance CvB, see Appendix III
5. If a unit of education is no longer offered in the following academic year, at least one additional opportunity will subsequently be provided to sit the examination(s) or parts thereof and a transitional arrangement will be included in section B.	Advice OLC, approval FGV (7.13 j)

Article 3.6 Marks

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

From	To	Grade
1.00	1.24	1.0
1.25	1.74	1.5
1.75	2.24	2.0
2.25	2.74	2.5
2.75	3.24	3.0
3.25	3.74	3.5
3.75	4.24	4.0
4.25	4.74	4.5
4.75	5.49	5.0
5.50	6.24	6.0

	6.25	6.74	6.5		
	6.75	7.24	7.0		
	7.25	7.74	7.5		
	7.75	8.24	8.0		
	8.25	8.74	8.5		
	8.75	9.24	9.0		
	9.25	9.74	9.5		
	9.75	10.0	10		
3. To pass a given course or unit, a final mark of 6 or higher is required.					
					Ordinance CvB, see Appendix III
4. The Examination Board can allow the use of symbols rather than numbers, for example: s(atisfactory), g(ood), u(n)s(at)is(factory), etc. In case a student does not take part in any examination, the examiner will register the mark 'ns' (c.q. no show).					
					Ordinance CvB, see Appendix III

Article 3.7 Exemption

1. At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if they: - have either passed a unit of education at a university of applied science (hbo) or research university (wo) that is equivalent in terms of content and level; - or have demonstrated through their work and/or professional experience that they have sufficient knowledge and skills with regard to the relevant unit of education.	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis is excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. a. A maximum of 18 EC for a one-year master's programme and 36 EC for a two-year master's programme can be accumulated through granted exemptions. The substituting courses (courses obtained at another educational institute within the context of a double degree, see art. 1.2) are not included. b. This regulation does not apply if a student is (simultaneously) enrolled in multiple programmes, which lead to multiple degrees, where courses may be part of both programmes. In such a case, the examination board may deviate from the regulations under a.	Advice OLC; approval FGV (9.38 sub b)

Article 3.8 Validity period for results

1. The validity period of examinations passed and exemption from 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. In exceptional circumstances, an examiner may deviate from this; this must be stated on Canvas at the start of the unit of education.	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 examination, but at least ten working days before the resit opportunity for that examination, the student can submit a request to review their graded examination.	Advice OLC; approval FGV (7.13 p and q)
---	---

2. Students can view the questions and assignments set in the written examination, and the standards applied when assessing the examination, within the period specified in 3.9.1.	Advice OLC; approval FGV (7.13 q)
3. The examiner determines whether the inspection takes place collectively or individually. In all cases, the time and place of the inspection is announced in the course manual or learning environment.	Advice OLC; approval FGV (7.13 q)
4. Students are entitled to feedback on their academic performance. The manner in which this is provided in each unit of education is described in the course manual. Feedback is provided at a time and location to be determined by the examiner within the regular timetable, on campus or online.	Advice OLC; approval FGV (7.13 p and q)

4. Academic student counselling and study progress

Article 4.1 Administration of study progress and academic student counselling

1. The faculty board is responsible for the correct registration of the students' study results. After the assessment of a unit of education has been registered, every student has the right to inspect the result for that component and also has a list of the results achieved at their disposal in VU.nl Dashboard.	Advice OLC; approval FGV (7.13 u)
2. Enrolled students are eligible for academic student counselling. Academic student counselling is in any case provided by a. The Student Counsellor b. Student psychologists c. Faculty academic advisers	Advice OLC; approval FGV (7.13 u)

Article 4.2 Facilities for students with a disability or impairment

1. A student with a disability or impairment can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and examinations. These facilities will accommodate the student's individual disability or impairment as much as possible, but may not alter the quality or degree of difficulty of a unit of education or an examination. In all cases, the student must fulfil the exit qualifications for the study programme.	Advice OLC; approval FGV (7.13 m)
2. The request referred to in the first paragraph must be accompanied by a statement from a doctor or psychologist. If possible, an estimate should be given of the potential impact on the student's study progress. In case of a chronic disability a single (one time) request suffices.	Advice OLC; approval FGV (7.13 m)
3. Students who have been diagnosed with dyslexia must provide a statement from a BIG-, NIP- or NVO-registered professional who is qualified to conduct a psychological evaluation.	Advice OLC; approval FGV (7.13 m)
4. The faculty board, or the person acting on behalf of the faculty board, decides on teaching facilities and facilities regarding logistics. The Examination Board will decide on requests for facilities with regard to examinations.	Advice OLC; approval FGV (7.13 m)
5. In the event of a positive decision in response to a request as referred to in paragraph 1, the student can make an appointment with the academic adviser to discuss the details of the provisions.	Advice OLC; approval FGV (7.13 m)
6. A request for one or more facilities can be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld. Any such refusal will be substantiated.	Advice OLC; approval FGV (7.13 m)
7. If the disability or impairment justifies an extension of the examination time, the	Advice OLC;

responsible person on behalf of the Examination Board will register in SAP this entitlement to an extension. If a disability or impairment justifies other measures to be taken, the academic adviser can take the necessary measures. The student can consult the study monitor to check which facilities have been granted to them.	approval FGV (7.13 m)
8. The decision as referred to in paragraph 5 may specify a limited validity of the facilities granted.	Advice OLC; approval FGV (7.13 m)

5. Hardship clause

Article 5.1 Hardship clause

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

Section B1: Programme specific – general provisions

6. General programme information and characteristics

Article 6.1 Study programme information

1. The programme Drug Discovery Sciences CROHO number 66989 is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
2. Part of the programme may be offered in partnership with the University of Copenhagen, Denmark which leads to a double degree (selected students).	Advice OLC; approval FGV (9.38 sub b)

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 unit of education are specified in the study guide.	Advice OLC; approval FGV (7.13 l)

Article 6.3 Academic student counselling

1. The programme offers the following counselling in addition to the student counselling mentioned in Section A: - XM_0002 Research Skills and Career Perspectives - Track coordinators - Internship coordinator - Academic Advisor	Advice OLC; approval FGV (7.13 u)
--	-----------------------------------

7. Further admission requirements

Article 7.1 Intake date(s)

1. The programme starts on 1 September.	Advice OLC; approval FGV (9.38 sub b)
---	---------------------------------------

Article 7.2 Admission requirements

1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills: a. Knowledge and understanding on a sufficient bachelor-degree level on a. Organic Chemistry b. Biochemistry, molecular biology, cell biology and pharmacology, including techniques such as protein expression, purification and mutagenesis; c. Pharmacokinetics, enzyme kinetics and pharmaceutical toxicology d. Physical chemistry e. Analytical chemistry, including techniques such as HPLC, spectrophotometry, fluorimetry, NMR and mass spectrometry	Advice OLC, approval FGV (9.38 sub b)
---	---------------------------------------

b. Skills “eindniveau bachelor” (final level of attainment in an appropriate university Bachelor’s degree programme) on: a. Practical laboratory experience b. Research experience in a relevant topic c. These knowledge, understanding and research skills can be demonstrated by a Dutch Bachelor Degree in Pharmaceutical Sciences / Pharmacochemistry or Chemistry. Students with another degree and international students can demonstrate eligibility by additional documents and an interview with the Admission Board.	
2. Applicants who wish to follow the track Molecular Pharmacology must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: a. Knowledge and understanding “eindniveau bachelor” on: a. Biochemistry, molecular biology, cell biology and pharmacology, including techniques such as protein expression, purification and mutagenesis; b. Pharmacokinetics, enzyme kinetics and pharmaceutical toxicology b. Skills “eindniveau bachelor” on: a. Practical laboratory experience with biochemical techniques b. Lab safety in a biochemical lab Applicants who wish to follow the track Synthesis of Drugs must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: c. Knowledge and understanding “eindniveau bachelor” on: a. Organic Chemistry d. Skills “eindniveau bachelor” on: a. Practical laboratory experience with organic chemical techniques b. Lab safety in an organic chemical lab Applicants who wish to follow the track Bioanalytics must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: e. Knowledge and understanding “eindniveau bachelor” on: a. Biochemistry, biological sample preparation, enzyme kinetics b. Analytical chemistry, including techniques such as HPLC, spectrophotometry, fluorimetry, NMR and mass spectrometry c. Organic Chemistry f. Skills “eindniveau bachelor” on: a. Practical laboratory experience with bioanalytical chemistry techniques b. Lab safety in bioanalytical chemistry lab Applicants who wish to follow the track Molecular Toxicology must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: g. Knowledge and understanding “eindniveau bachelor” on: a. Biochemistry, metabolism, molecular biology, cell biology and pharmacology, including techniques such as protein expression, purification and mutagenesis; b. Pharmacokinetics, enzyme kinetics and pharmaceutical toxicology h. Skills “eindniveau bachelor” on:	Advice OLC, approval FGV (9.38 sub b)

a. Practical laboratory experience with biochemical techniques b. Lab safety in a biochemical lab Applicants who wish to follow the track Computer-Aided Drug Design must, in addition to the provisions in paragraph 1, also meet the following requirements with regard to: i. Knowledge and understanding "eindniveau bachelor" on: a. Physical chemistry j. Skills "eindniveau bachelor" on: a. Computational molecular simulation and modeling techniques These knowledge, understanding and research skills can be demonstrated by a Dutch Bachelor Degree in Pharmaceutical Sciences / Pharmacochimie or Chemistry. Students with another degree and international students can demonstrate eligibility by additional documents and an interview with the Admission Board.	
1. Applicants with a Bachelor's degree obtained at an institution outside the Netherlands may be asked for additional methods to prove that they meet the admission requirements.	Advice OLC; approval FGV (9.38 sub b)
2. Not applicable (not a Dutch Language programme).	Advice OLC; approval FGV (9.38 sub b)
3. Applicants should demonstrate that they have a sufficient level of proficiency in English by meeting at least one of the following standards, no more than two years before the start of the programme: - (academic) IELTS: >6.5 - TOEFL paper based test: >580 - TOEFL internet based test: >92	Advice OLC; approval FGV (9.38 sub b)
4. Exemptions from the requirements in section 5 apply to applicants who: - completed an English-taught secondary or higher education degree in Canada, the United States, the United Kingdom, Ireland, New Zealand or Australia; or - have earned a Bachelor's or Master's degree in an English-taught programme accredited by NVAO in the Netherlands; or - have earned a Bachelor's or Master's degree in an accredited English-taught programme in another member state of the European Union; or - have obtained a Cambridge Certificate of Proficiency in English (CPE) or a Cambridge Certificate of Advanced English (CAE) with at least a score of A,B, or C; or - have earned a VWO diploma or equivalent diploma in which English of a comparable level is required. are exempt from the requirements referred to in paragraph 5.	Advice OLC; approval FGV (9.38 sub b)
5. The Admission Board will investigate whether the applicant meets the admission requirements.	Advice OLC; approval FGV (9.38 sub b)

Article 7.3 Selection criteria

1. Not applicable	Advice OLC, approval FGV (9.38 sub b)
-------------------	---

Article 7.4 Pre-Master's programme

1. Not applicable	Advice OLC; approval FGV (9.38 sub b)
-------------------	---

8. Examinations and results

Article 8.1 Sequence of examinations

1. Students may participate in the interim examinations or examinations of the units of education listed below only if they have passed the examination or examinations for following units of education: - A major or minor internship obtaining after 18EC or more - A literature thesis after obtaining 18EC or more	Advice OLC; approval FGV (7.13 h, s & t)
--	--

Article 8.2 Validity period for results

1. The validity period of the examinations and exemptions from examinations below, is limited as follows: a. Not applicable	Advice OLC; approval FGV (7.13 k)
2. A student may request the Examination Board to extend the validity of an exam. If the student's knowledge is demonstrably outdated, or if the student's skills and insights are demonstrably outdated, the Examination Board may impose a supplementary 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

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

Article 9.1 Workload

1. The programme has a workload of 120 EC.	Advice OLC; (7.13 a)
--	-------------------------

Article 9.2 Tracks and/or specialisations

1. The programme has the following tracks and/or specialisations: • Molecular Pharmacology • Synthesis of Drugs • Molecular Toxicology • Computer-Aided Drug Design • Bioanalytics Each specialisation has to be combined with one of the following profiles • Research variant (R-variant) • Society oriented variant for natural and life sciences (S-variant) • Communication variant (C-variant) • Education variant (E-variant)	Approval OLC; (7.13 a)
---	---------------------------

Article 9.3 Programme objective

1. The programme aims to impart sufficient knowledge, skills and insight within the field of Drug Discovery Sciences, and any related disciplines, to be able to operate as an independent professional at an academic level, and to be a suitable candidate for a subsequent study path leading to a career in research or development. Another aim of the programme is to develop students' understanding of the relationships between academic disciplines, as well as their sense of social responsibility.	Advice OLC; (7.13 a)
---	-------------------------

Article 9.4 Exit qualifications

1. At all events, a graduate of the study programme: • has a sound theoretical and practical understanding of the modern pharmaceutical sciences (including the requisite knowledge of other disciplines); • has a thorough knowledge of theoretical and experimental methods, as well as research experience in at least one sub-field of pharmaceutical sciences; • is capable, within a reasonable period of time, of becoming conversant in other sub-fields of the discipline; • is capable of formulating a work plan for research within the pharmaceutical sciences, on the basis of a realistic research question; • is capable of analyzing and formulating research results, and of drawing conclusions from them; • is capable of writing a report or an academic paper for publication in an international journal, and of participating in a discussion on a topic related to the field of study in question;	Approval OLC (7.13)
---	-------------------------

• is capable of studying the professional literature (including international publications) in relevant sub-fields, and of making use of the discussions and results found there; • is capable of applying knowledge of the pharmaceutical sciences within a wider, multidisciplinary context; • is capable of dealing with the safety and environmental aspects of the pharmaceutical sciences; • is capable of taking on posts for which knowledge and research skills in the field of the pharmaceutical sciences are required; • has sufficient knowledge of and insight into the social role of the pharmaceutical sciences to decide on a responsible choice of profession and professional practice; • is capable of cooperating with others, of imparting knowledge to others, and of delivering a lecture both to specialists and to a wider audience. The programme emphasizes: • the student's personal development; • promoting the student's sense of social responsibility; • promoting the student's communication skills and academic literacy in English and where applicable in Dutch.	
2. Notwithstanding the provisions of paragraph 1, a graduate of the different profiles will have the following knowledge and understanding in the field of R-variant The graduate: • is capable of independently designing, conducting and assessing experiments and the associated controls within a given period of time; • is capable of contextualizing the results and conclusions obtained, within the framework of results obtained by others; • is capable of formulating a perspective on the development of scientific research within the field in question; • is capable of quantitatively and qualitatively analyzing chemical processes, of entering the data into existing models (or models yet to be developed), and of presenting the results at various levels of abstraction; • must possess insight into the role of the pharmaceutical sciences in a sustainable society. C variant The graduate can: • independently acquire new knowledge of the subject in the area of communication and can apply this in appropriate professional situations; • impart any knowledge and insights obtained, verbally and in writing to wider audiences. E variant The graduate can: • independently acquire new knowledge of the subject in the area of education, and can apply this in appropriate professional situations;	Approval OLC (7.13 b)

- impart any knowledge and insights obtained, verbally and in writing in appropriate educational settings. S variant The graduate can: - develop a perspective on the contributions that scientific knowledge and methods can potentially make to social problems related to the field in question; - distil a research question from this perspective that is geared towards solutions; - implement such questions in the form of targeted research; - interpret and present data obtained from analyses conducted at different scales and different levels of abstraction; - cooperate with others in the context of a multidisciplinary project team.	
3. Language proficiency may be taken into account in the assessment of examinations.	Approval OLC (7.13 c)

Article 9.5 Language of instruction

1. The language of instruction for this master programme is English. The language of instruction for the Educational Variant courses is Dutch.	Approval OLC (9.18)
2. The 'Gedragcode vreemde taal' (Code of conduct foreign languages) applies.	Ordinance CvB, see Appendix III

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. The following demands and restrictions are defined: The final programme of 120 EC (R-variant) contains at least 30 EC in core Drug discovery theoretical courses and has a maximum of 12 EC in alfa/gamma courses, in addition to 6-9 EC in Ethics courses (which includes a mandatory Scientific Writing course worth 3EC). The maximum contribution of internships (major and minor) is 78 EC. The final programme of 60 EC (C-, E-, M-variant) dedicated to Drug Discovery Sciences does not contain alfa/gamma or Ethics course components.	Ordinance CvB, see Appendix III
2. Additionally the programme can offer: - Minor research project - Literature thesis and colloquium - Elective courses	Advice OLC; (7.13 a)
3. Units of education are categorized as specialized (400), research oriented (500) and highly specialized (600) level.	Ordinance CvB, see Appendix III

Article 10.2 Compulsory units of education

A detailed description per unit of education can be found in the Study Guide.

Name of unit of education	course code	nr of EC	level	Advice OLC
---------------------------	-------------	----------	-------	------------

				(7.13 a)
Core courses, compulsory for all tracks and variants				
Research Skills and Career Perspectives	XM_0002	0	400	
Principles of Drug Targets*	XM_0105	6	400	
Principles of Drug Discovery*	XM_0106	6	400	

*not compulsory if you have completed the bachelor Farmaceutische Wetenschappen at the VU.

Name of unit of education	course code	nr of EC	level	Advice OLC
All tracks: Research variant				(7.13 a)
<i>Ethics and Academic Skills Constrained Choice: select 6 (six) EC</i>				
Caput AIMMS seminars en lezingen	XM_0001	3	500	
Teaching Assistant	XM_432741	3	400	
Teaching Assistant	XM_432742	6	400	
Research Methods for Analyzing problems	AM_1182	6	400	
Societal Entrepreneurship H&L Sciences	AM_470575	6	500	
Managing Science and Technology	AM_470586	6	600	
Science and Communication	AM_470587	6	500	
Communication, Org. and Management	AM_470572	6	500	
Business Management	AM_470584	6	500	
Science Journalism	AM_471014	6	500	
Scientific Writing in English	X_400592	3	400	
Tutoring Students	X_432625	3	400	
Science in Dialogue	AM_1002	6	500	
Epidemiology	AM_1179	3	500	
Clinical Development and Clinical trials	AM_1180	3	500	
Ethics in Life Sciences	AM_470707	3	400	

Name of unit of education	course code	nr of EC	level	Advice OLC (7.13 a)
All tracks: Communication, Education, and Society Variants				
<i>Specialisation courses: select 6 (six) EC</i>				
Comp.-Aided Drug Design and Virtual Scr.	X_432673	6	400	
Mass Spectrometry	X_435604	6	400	
Physical Organic Chemistry	X_435663	6	400	
<i>Research Project Constrained Choice: select 24 (twenty-four) EC or more</i>				
Major Research Project Bioanalytical Chemistry (CES)	XM_0023	24	600	
Major Research Project Environmental Bioanalysis (CES)	XM_0024	24	600	
Major Research Project Medicinal Chemistry (CES)	XM_0025	24	600	
Major Research Project Molecular & Computational Toxicology (CES)	XM_0026	24	600	
Major Research Project Organic Chemistry (CES)	XM_0027	24	600	
Major Research Project Radiopharmaceutical Chemistry (CES)	XM_0028	24	600	
Major Research Project Theoretical Chemistry (CES)	XM_0029	24	600	
<i>Colloquium & Literature Thesis optional choice: select 6 (six) EC or more</i>				

Colloquium & Lit. Thesis Bioanalytical Chemistry (CES)	XM_0016	6	600
Colloquium & Lit. Thesis Environmental Bioanalysis (CES)	XM_0017	6	600
Colloquium & Lit. Thesis Medicinal Chemistry (CES)	XM_0018	6	600
Colloquium & Lit. Thesis Molecular & Computational Toxicology (CES)	XM_0019	6	600
Colloquium & Lit. Thesis Organic Chemistry (CES)	XM_0020	6	600
Colloquium & Lit. Thesis Radiopharmaceutical Chemistry (CES)	XM_0021	6	600
Colloquium & Lit. Thesis Theoretical Chemistry (CES)	XM_0022	6	600
All tracks: Communication Variant			
Research Methods for Analyzing Problems	AM_1182	6	400
Science and Communication	AM_470587	6	500
<i>Internship constrained choice: select one (1) course</i>			
Research internship Science Communication	AM_1162	30	600
Reflective practice Internship Science Communication	AM_1163	30	600
All tracks: Education Variant			
Didactiek 1	O_MLDIDAC_1	6	400
Praktijk 1	O_MLPRAK_1	6	400
Didactiek 2	O_MLDIDAC_2	6	400
Praktijk 2	O_MLPRAK_2	9	400
Praktijkonderzoek 1	O_MLPROZ_1	3	400
Didactiek 3, februari start	O_MLDIDAC_3F	9	400
Praktijk 3, feb	O_MLPRAK_3F	15	400
All tracks: Society Variant			
Internship Major Science in Society	AM_1185	30	500
Research Methods for Analyzing Problems	AM_1182	6	400
Analysis for Governmental policy	AM_470571	6	500
Communication, Org. and Management	AM_470572	6	500

Article 10.2a Compulsory units of education Track Bioanalytics

Name of unit of education	course code	nr of EC	level	Advice OLC
Track Bioanalytics: all variants				(7.13 a)
ADME	XM_0136	6	400	
Advanced Bioanalytical Approaches	XM_0107	6	400	
Biopharmaceuticals & Biopharma Proteomics	XM_0108	6	500	
Track Bioanalytics: Research Variant				
Research Project Constrained Choice: select 1 (one) project				
Major Research Project Bioanalytical Chemistry	XM_0037	42	600	
Major Research Project Environmental Bioanalysis	XM_0038	42	600	
Major Research Project Molecular & Computational Toxicology	XM_0040	42	600	
Colloquium and Literature Thesis: select 1 (one)				
Colloquium & Literature Thesis Bioanalytical Chemistry	XM_0030	12	600	
Colloquium & Literature Thesis Environmental Bioanalysis	XM_0031	12	600	

Article 10.2b Compulsory units of education Track Synthesis of Drugs

Name of unit of education	course code	nr of EC	level	Advice OLC
Track Synthesis of Drugs: all variants				(7.13 a)
Physical Organic Chemistry	X_435663	6	400	
Spectroscopic Approaches in Medicinal Chemistry	XM_0109	6	400	
Synthetic Approaches in Medicinal Chemistry	XM_0110	6	500	
Track Synthesis of Drugs: Research Variant				
<i>Research Project Constrained Choice: select 1 (one) project</i>				
Major Research Project Medicinal Chemistry	XM_0039	42	600	
Major Research Project Molecular & Computational Toxicology	XM_0040	42	600	
Major Research Project Organic Chemistry	XM_0041			
Major Research Project Radiopharmaceutical Chemistry	XM_0042	42	600	
<i>Colloquium and Literature Thesis: select 1 (one)</i>				
Colloquium & Literature Thesis Medicinal Chemistry	XM_0032	12	600	
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600	
Colloquium & Literature Thesis Organic Chemistry	XM_0034	12	600	
Colloquium & Literature Thesis Radiopharmaceutical Chemistry	XM_0035	12	600	

Article 10.2c Compulsory units of education Track Molecular Pharmacology

Name of unit of education	course code	nr of EC	level	Advice OLC
Track Molecular Pharmacology: all variants				
ADME	XM_0136	6	400	
Drug Target Biochemistry & Signalling	XM_0111	6	400	
Advanced Pharmacology	XM_0112	6	500	
Track Molecular Pharmacology: Research Variant				
<i>Research Project Constrained Choice: select 1 (one) project</i>				
Major Research Project Medicinal Chemistry	XM_0039	42	600	
Major Research Project Organic Chemistry	XM_0041			
<i>Colloquium and Literature Thesis: select 1 (one)</i>				
Colloquium & Literature Thesis Medicinal Chemistry	XM_0032	12	600	
Colloquium & Literature Thesis Organic Chemistry	XM_0034	12	600	

Article 10.2d Compulsory units of education Track Molecular Toxicology

Name of unit of education	course code	nr of EC	level	Advice OLC
Track Molecular Toxicology: all variants				(7.13 a)
ADME	XM_0136	6	400	
Molecular and Cellular Toxicology	XM_0113	6	400	
Advanced Course in Molecular Toxi.	XM_0114	6	500	
Track Molecular Toxicology: Research Variant				
<i>Research Project Constrained Choice: select 1 (one) project</i>				
Major Research Project Molecular & Computational Toxicology	XM_0040	42	600	
<i>Colloquium and Literature Thesis: select 1 (one)</i>				
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600	

Article 10.2e Compulsory units of education track Computer-Aided Drug Design

Name of unit of education	course code	nr of EC	level	Advice OLC
Track Computer-Aided Drug Design: all variants				(7.13 a)
Data Management in Drug Discovery	XM_0117	6	400	
Biomolecular Simulation in Drug Discovery	XM_0118	6	500	
Computer-Aided Drug Design and Virtual Screening	X_432673	6	400	
Track Computer-Aided Drug Design: Research Variant				
<i>Research Project Constrained Choice: select 1 (one) project</i>				
Major Research Project Medicinal Chemistry	XM_0039	42	600	
Major Research Project Molecular & Computational Toxicology	XM_0040	42	600	
Major Research Project Theoretical Chemistry	XM_0043	42	600	
<i>Colloquium and Literature Thesis: select 1 (one)</i>				
Colloquium & Literature Thesis Medicinal Chemistry	XM_0032	12	600	
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600	
Colloquium & Literature Thesis Theoretical Chemistry	XM_0036	12	600	

Article 10.3 Elective units of education

1. The student can take one or more of the following electives without prior consent from the Examination Board:				Advice OLC;
Name of unit of education	course code	nr of EC	level	(7.13 a)
All tracks, all variants				
Minor Research Project Bioanalytical Chemistry	XM_0044	30	500	
Minor Research Project Environmental Bioanalysis	XM_0045	30	500	
Minor Research Project Medicinal Chemistry	XM_0046	30	500	
Minor Research Project Molecular & Computational Toxicology	XM_0047	30	500	
Minor Research Project Organic Chemistry	XM_0048	30	500	
Minor Research Project Radiopharmaceutical Chemistry	XM_0049	30	500	
Minor Research Project Theoretical Chemistry	XM_0050	30	500	
Fundamentals of Bioinformatics	X_405052	6	400	
Physical Organic Chemistry	X_435663	6	400	
Translational Radiopharmaceutical Sciences	XM_0067	6	400	
Advanced Bioanalytical Approaches	XM_0107	6	400	
Spectroscopic Approaches in Medicinal Chemistry	XM_0109	6	400	
Drug Target Biochemistry & Signalling	XM_0111	6	400	
Molecular and Cellular Toxicology	XM_0113	6	400	
Rep. Ref. and Red. of Animal Exp.	XM_0148	6	400	
Data Management in Drug Discovery	XM_0117	6	400	
Computer-Aided Drug Design and Virtual Screening	X_432673	6	400	
Advanced Molecular Orbital Theory	XMU_0028	6	500	
Biopharmaceuticals & Biopharma Proteomics	XM_0108	6	500	
Synthetic Approaches in Medicinal Chemistry	XM_0110	6	500	
Advanced Pharmacology	XM_0112	6	500	
Advanced Course in Molecular Toxicology	XM_0114	6	500	
Molecular Modeling for Sustainability	XMU_0042	6	400	
Advanced Radiopharmaceutical Chemistry	XM_0069	6	600	
Concepts in Chemical Biology	XM_0080	6	400	

Protein Analysis	X_435045	6	500
ADME	XM_0136	6	400
Molecular Modelling	XMU_0059	6	400
Optional Colloquium & Literature Thesis			
Track Bioanalytics: Research Variant			
Colloquium & Literature Thesis Bioanalytical Chemistry	XM_0030	12	600
Colloquium & Literature Thesis Environmental Bioanalysis	XM_0031	12	600
Track Synthesis of Drugs: Research Variant			
Colloquium & Literature Thesis Medicinal Chemistry	XM_0032	12	600
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600
Colloquium & Literature Thesis Organic Chemistry	XM_0034	12	600
Colloquium & Literature Thesis Radiopharmaceutical Chemistry	XM_0035	12	600
Track Molecular Pharmacology: Research Variant			
Major Research Project Medicinal Chemistry	XM_0039	42	600
Major Research Project Organic Chemistry	XM_0041	42	600
Track Molecular Toxicology: Research Variant			
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600
Track Computer-Aided Drug Design: Research Variant			
Colloquium & Literature Thesis Medicinal Chemistry	XM_0032	12	600
Colloquium & Literature Thesis Molecular & Computational Toxicology	XM_0033	12	600
Colloquium & Literature Thesis Theoretical Chemistry	XM_0036	12	600
Recommended choice, all tracks, Communication variant only			
Communication, Organization and Management	AM_470572	6	500
Science in Dialogue	AM_1002	6	500
Science Journalism	AM_471014	6	500
Science Museology	AM_470590	6	500
Recommended choice, all tracks, Society Variant only			
Societal entrepreneurship H&L sciences	AM_470575	6	500
Business management	AM_470584	6	500
Policy, Politics and Participation	AM_470589	6	500
Clinical Development and Clinical Trials	AM_1180	3	500
Epidemiology	AM_1179	3	500
Concepts in chemical biology	XM_0080	6	400
Recommended choice, all tracks, Education Variant only			
Omgaan met maatsch. controverses	O_MLOMMCV	3	500
Onderzoekend leren	O_MLONDLE	3	500
Praktijkonderzoek	O_PROZ	6	400
ICT en Onderwijs: blended learning	O_MLICT	3	400
Vernieuwend Onderwijs	O_MLVNON	3	500
Praktijkonderzoek feb	O_PROZF	6	400
Vergelijkende Onderwijskunde	O_MLVOBU	3	500
Tweetalig Onderwijs	O_MTTO	3	500
Lesson Study	O_MLLESST	3	500
2. If the student wishes to take a different unit of education than listed, advance permission must be obtained in writing from the Examinations Board.			Advice OLC;

Article 10.4 Practical exercise

Not applicable

Article 10.5 Participation in practical training and tutorials

1. In the case of practical exercises, there may be attendance requirements. Should students not meet these attendance requirements, they must repeat the practical exercise, or the Examination board may issue one or more supplementary assignments. For details on attendance requirements, please refer to the study guide of the relevant unit of study.	Approval OLC (7.13 d)
2. In the case of tutorials, there may be attendance requirements. Should students not meet these attendance requirements, they must repeat the tutorial, or the Examination board may issue one or more supplementary assignments. For details on attendance requirements, please refer to the study guide of the relevant unit of study.	Approval OLC (7.13 d)
3. For thesis and internship, the programme applies the guidelines as stipulated in the Thesis and Placement Regulations.	

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)
---	------------------------

Article 11.2 Transitional provisions

1. By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations: For students who started before 2021-2022: - Students can do Advanced Pharmacology (XM_0112) instead of Drug Action (X_432724) - Students can do Molecular and Cellular Toxicology (XM_0113) instead of Drug-Induced Stress and Cellular Response (X_432536) - Students can do Drug Target Biochemistry and Signaling (XM_0111) instead of Signaling in Health and Disease (X_432535) - Students can do the Advanced Course on Molecular Toxicology (XM_0114) instead of the Advanced Course on Drug Disposition and Safety Assessment (X_435681) - Students can do Synthetic Approaches in Medicinal Chemistry (XM_0110) instead of Synthetic Approaches in Medicinal Chemistry (X_435685) For students who started before 2022-2023 - Students can do Biomolecular Simulation in Drug Discovery (XM_0118) instead of Biomolecular Simulation in Medicinal Chemistry and Toxicology (X_432664) For students in the E-variant (curriculum changes per 2023-2024):	Advice OLC (7.13 a)
---	---------------------

- For students who started before 1 September 2023, the 2022/2023 curriculum still applies in 2023/2024. This means that Praktijkonderzoek 1 (3 EC) is a compulsory unit of education, and that Didactiek 2 is a 6 EC unit of education. - Until August 2024, it is possible to finish Praktijkonderzoek 1 (3 EC) and Didactiek 2 (6 EC) from the old curriculum. At the end of semester 1 and at the end of semester 2, retakes will be offered at the regular moments. - Praktijkonderzoek 1 (3 EC) will be offered as a self-study module in semester 1 for the students who have not yet followed (all) the sessions of Praktijkonderzoek 1 (3 EC). - Students who have not yet followed (all) the sessions of Didactiek 2 (6 EC) can join the sessions of the new unit of education Didactiek 2 (9 EC). - Per September 2024, all students can only graduate according to the exit qualifications and units of education of the new curriculum.	
--	--

Approval of the Programme Committee of the curriculum structure (submitted via UAS), on 9-12-2023.

Advice and approval by the Programme Committee (with the exception of the curriculum structure), on 16-8-2024.

Approved by the Faculty Joint Assembly, on 22-8-2024.

Adopted by the board of the Faculty of Sciences on 11-9-2024.

Appendix I

Overview of articles that must be included in the OER

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

Section A: Faculty section

2. Study programme structure		
Article 2.1 Structure of academic year and units of education		7.13 paragraph 2 sub e
3. Assessment and examination		
Article 3.2 Type of examination		7.13 paragraph 2 sub h, l, j
Article 3.3 Oral 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. Examinations and results		
Article 8.1 Sequence of 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/specialisations, exit qualifications and language		
Article 9.1 Workload		7.13 paragraph 2 sub g
Article 9.2 Tracks and/or specialisations		7.13 paragraph 2 sub a
Article 9.3 Programme objective		7.13 paragraph 2 sub a
Article 9.4 Exit qualifications		7.13 paragraph 2 sub b, c
Article 9.5 Language of instruction		9.18 (implementation expected in 2020)
10. Curriculum structure		
Article 10.1 Composition of the programme		7.13 paragraph 2 sub a
Article 10.2 Compulsory units of education		7.13 paragraph 2 sub a
[Optional] Article 10.3 Elective units of education		7.13 paragraph 2 sub a
[Optional] Article 10.4 Practical exercise		7.13 paragraph 2 sub d
Article 10.5 Participation in practical training and tutorials		7.13 paragraph 2 sub d
11. Evaluation and transitional provisions		
Article 11.1 Evaluation of the education		7.13 paragraph 2 sub a1
Article 11.2 Transitional provisions		7.13 paragraph 2 sub a

Appendix II

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

(English below)

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

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

Afkortingen:

FGV:	Facultaire Gezamenlijke Vergadering
OpIC:	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		OplC	
	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 specialisations offered as part of the programme				
c. the programme's final attainment levels with regard to the knowledge, understanding and skills				
d. where applicable, the design of practical exercises				
e. the workload of the programme and of each of its constituent educational units				
f. the detailed rules referred to in Article 7.8b, sixth paragraph, and Article 7.9, fifth paragraph (recommendation on continuation of studies)				
g. the Master's programmes to which Article 7.4a, eighth paragraph, applies (elevated workload)				
h. the number and sequence of 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 in which students can take the examinations and the final examinations for Bachelor's and Master's programmes, as well as the timing of and number of opportunities				
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 Board of Examiners may grant exemptions from taking one or more examinations on the basis of examinations and final examinations for Bachelor's and Master's programmes previously completed in higher education, or on the basis of knowledge or skills acquired 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
OplC:	Programme Committee
I:	right of approval
A:	right of advice

Appendix III

Ordinances VU CvB and Binding Guidelines (richtlijn)

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

Appendix IV

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

(English below)

1. 1 De persoonlijke omstandigheden bedoeld in de artikelen 7.8b, derde lid, en 7.9, derde lid, van de wet, zijn uitsluitend:
 - a) ziekte van betrokkene,
 - b) lichamelijke, zintuiglijke of andere functiestoornis van betrokkene,
 - c) zwangerschap van betrokkene,
 - d) bijzondere familie-omstandigheden,
 - e) het lidmaatschap, daaronder begrepen het voorzitterschap, van:
 1. bij universiteiten: de universiteitsraad, faculteitsraad, het orgaan dat is ingesteld op grond van de medezeggenschapsregeling, bedoeld in artikel 9.30, derde lid, onderscheidenlijk artikel 9.51, tweede lid, van de wet, het bestuur van een opleiding of de opleidingscommissie, alsmede het lidmaatschap van het bestuur van een stichting die blijkens haar statuten tot doel heeft de exploitatie van voorzieningen, behorende tot de studentenvoorzieningen, dan wel van een daarmee naar het oordeel van het instellingsbestuur gelet op de taak gelijk te stellen orgaan,
 2. bij hogescholen: de medezeggenschapsraad, deelraad, studentencommissie of opleidingscommissie.
 - f) andere in de regelingen, bedoeld in de artikelen 7.8b, zesde lid, en 7.9, vijfde lid, van de wet door het instellingsbestuur aan te geven omstandigheden waarin betrokkene activiteiten ontplooit in het kader van de organisatie en het bestuur van de zaken van de instelling,
 - g) het lidmaatschap van het bestuur van een studentenorganisatie van enige omvang met volledige rechtsbevoegdheid, dan wel van een vergelijkbare organisatie van enige omvang, bij wie de behartiging van het algemeen maatschappelijk belang op de voorgrond staat en die daartoe daadwerkelijk activiteiten ontplooit.
 - h) andere in de onderwijs- en examenregeling, bedoeld in artikel 7.13 van de wet, op grond van artikel 7.13, tweede lid, onderdeel f, van de wet, vast te leggen persoonlijke omstandigheden,
 - i) andere dan in de onderdelen a tot en met h bedoelde persoonlijke omstandigheden die, indien zij door het instellingsbestuur niet in de beoordeling zouden worden betrokken, zouden leiden tot een onbillijkheid van overwegende aard.
2. Het instellingsbestuur kan voor de toepassing van het eerste lid, onderdeel g, nadere regels vaststellen omtrent het aantal bestuursleden dat ten hoogste per organisatie per studiejaar in aanmerking komt, zomede omtrent welke bestuursfuncties in aanmerking komen.

Appendix IV (English)

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

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 person concerned,
 - d) extenuating family circumstances,
 - e) membership, including the chairmanship of:
 1. universities: the university council, faculty council, the body established under the participation regulation referred to in Article 9.30, paragraph 3, or Article 9.51, paragraph 2, of the Act, the programme management or the programme committee, or membership on the board of a foundation whose bylaws allow for the exploitation of facilities belonging to the student services, or an equivalent body with regard to its activities in the opinion of the board of the institution,
 2. universities of applied sciences: the participation council, district council, student committee or programme committee,
 - f) other circumstances to be designated by the board of the institution in the regulation as referred to in Article 7.8b, paragraph 6, and Article 7.9, paragraph 5, of the Act in which the person concerned engages in activities within the framework of the organization and the administration of the affairs of the institution,
 - g) membership on the board of a student organization of a certain size with full legal capacity, or a similar organization of a certain size, whose primary task regards general societal interest and which actually develops activities for this purpose,
 - h) other personal circumstances set out in the Teaching and Examination Regulations as referred to in Article 7.13 of the Act, pursuant to Article 7.13, paragraph 2, clause f of the Act,
 - i) personal circumstances other than those referred to in a – h above which, if overlooked by the governing bodies of the institution, would lead to an obviously unfair outcome.
2. The institutional board may, for the purposes of the first paragraph, part g, establish specific rules regarding the maximum number of eligible board members per organization per academic year, as well as the eligible administrative offices.