

Teaching and Examination Regulations

Faculty of Science

**Master's programme in Bioinformatics and Systems Biology
(joint degree)**

Academic year 2023-2024

A. Faculty section

B1. Programme specific section – general provisions

B2. Programme specific section – content of programme

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Section A: Faculty section

1. General provisions

Article 1.1 Applicability of the Regulations

1. These Regulations apply to anyone enrolled in the programme, irrespective of the academic year in which the student was first enrolled in the programme.	Advice OLC, approval FGV (9.38 sub b)
2. These Regulations enter into force on 1 September 2023.	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. double degree programme: joint programme in the context of cooperation between Vrije Universiteit Amsterdam and an educational institution within or outside the Netherlands, as to gain a double university degree; of the VU and the educational institution concerned; though not being the same as a 'joint degree programme' according to the art. 7.3c WHW';
- c. EC (European Credit): a course credit with a workload of 28 hours of study;
- d. 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;
- e. 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;
- f. final examination: a master's programme consists of a master's examination;
- g. 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;
- h. period: a part of a semester;
- i. 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;

- j. pre-Master's enrollee: person enrolled in a pre-Master's programme, who is not a student from a legal perspective;
- 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 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);
- p. 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://studiegids.vu.nl/en#/>;
- q. study monitor: dashboard for students and academic advisors with data of the student (*studiemonitor*); and that provides insight into the student's study progress;
- r. subject: see 'unit of education';
- s. substituting course/unit of education: see under b (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';
- t. thesis: a unit comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
- u. 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;
- v. unit of education: a unit of study of the programme within the meaning of the WHW;
- w. university: Vrije Universiteit Amsterdam;
- x. WHW: the Dutch Higher Education and Research Act (Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek);
- y. 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
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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)
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Article 3.3 Oral examinations

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

1. The examiner determines the result of a written 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 a (partial) examination must not take place within ten working days of the announcement of the result of the (partial) examination being resat.	Advice OLC; approval FGV (7.13 j)
4. The Examination Board may allow a student an extra opportunity to sit an examination if that student: a) 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 marks are given on a scale from 1 to 10 with no more than one figure after the decimal point.	Ordinance CvB, see Appendix III																																																									
2. A final mark between 5 and 6 will be rounded to the nearest whole number: final marks below 5.50 will be rounded down; final marks of 5.50 or higher will be rounded up. All other final marks will be expressed in whole or half marks. In case the examination of a component consists of two or more parts, each of which are graded separately, the (weighted) mean of these marks (meaning: the final mark) must be rounded off using the following table: <table><tr><th>From</th><th>To</th><th>Grade</th></tr><tr><td>1.00</td><td>1.24</td><td>1.0</td></tr><tr><td>1.25</td><td>1.74</td><td>1.5</td></tr><tr><td>1.75</td><td>2.24</td><td>2.0</td></tr><tr><td>2.25</td><td>2.74</td><td>2.5</td></tr><tr><td>2.75</td><td>3.24</td><td>3.0</td></tr><tr><td>3.25</td><td>3.74</td><td>3.5</td></tr><tr><td>3.75</td><td>4.24</td><td>4.0</td></tr><tr><td>4.25</td><td>4.74</td><td>4.5</td></tr><tr><td>4.75</td><td>5.49</td><td>5.0</td></tr><tr><td>5.50</td><td>6.24</td><td>6.0</td></tr><tr><td>6.25</td><td>6.74</td><td>6.5</td></tr><tr><td>6.75</td><td>7.24</td><td>7.0</td></tr><tr><td>7.25</td><td>7.74</td><td>7.5</td></tr><tr><td>7.75</td><td>8.24</td><td>8.0</td></tr><tr><td>8.25</td><td>8.74</td><td>8.5</td></tr><tr><td>8.75</td><td>9.24</td><td>9.0</td></tr><tr><td>9.25</td><td>9.74</td><td>9.5</td></tr><tr><td>9.75</td><td>10.0</td><td>10</td></tr></table>	From	To	Grade	1.00	1.24	1.0	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	Ordinance CvB, see Appendix III
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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
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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 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. - 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 inspect their assessed work, the questions and assignments set in it, as well as the standards applied for marking. The place and time where students can inspect their work will be announced on VU.nl Dashboard or Canvas in all cases.	Advice OLC; approval FGV (7.13 p and 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 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

1. A student with a disability can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and 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 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 justifies an extension of the 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 academic adviser can take the necessary measures. The student can consult the study monitor to check which facilities have been granted to them.	Advice OLC; 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](#)

In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness or unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the Examination Board.	Advice OLC; approval FGV (9.38 sub b)
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Section B1: Programme specific – general provisions

6. General programme information and characteristics

Article 6.1 Study programme information

1. The programme Bioinformatics and Systems Biology CROHO number 65020 is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
2. The programme is offered in partnership with the University of Amsterdam and leads to a joint degree.	Advice OLC; approval FGV (9.38 sub b)

Article 6.2 Teaching formats used and modes of assessment

1. The degree 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: - Student Advising - Within the first two months, each student is assigned an academic mentor. A Personal Education Plan is written in consultation with this academic mentor. The academic mentor will also typically act as the examiner on the Master thesis of the student.	Advice OLC; approval FGV (7.13 u)
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7. Further admission requirements

Article 7.1 Intake date(s)

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

1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree at an institution of academic higher education in any of the following – or closely related – disciplines: Artificial Intelligence, Biology, Biomedical Sciences, Biotechnology, (Bio)Chemistry, Computer Science, Data Science, Engineering, Health Sciences, (Bio)Informatics, Mathematics, Medical (Natural) Sciences, Medicine, Pharmaceutical Sciences or (Medical/Bio) Physics, and who demonstrates the following knowledge, understanding and skills: - Knowledge of: Molecular Cell Biology; Algorithms; Statistics; Calculus and Linear Algebra; - Understanding of: Molecular Cell Biology; Algorithms; Statistics; Calculus and Linear Algebra; - Skills: Programming in Python; Data analysis.	Advice OLC, approval FGV (9.38 ub b)
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d. Knowledge in and understanding of mathematics must be proven by successfully completing a course of 6 ECTS in Calculus at university Bachelor's level, or equivalent.	
2. Not applicable.	Advice OLC; approval FGV (9.38 sub b)
3. Applicants with a Bachelor's degree obtained at an institution outside the Netherlands may be asked for additional methods to prove that they meet the admission requirements.	Advice OLC; approval FGV (9.38 sub b)
4. Not applicable.	Advice OLC; approval FGV (9.38 sub b)
5. Applicants should demonstrate that they have a sufficient level of proficiency in English by meeting at least one of the following standards, no more than two years before the start of the programme: - (academic) IELTS: 6.5 overall, with minimum sub-scores for Listening, Reading, Writing and Speaking of 6.0 - TOEFL paper based test: a minimum score of 18 for the Reading section, a minimum score of 19 for the Listening section, and a minimum score of 23 for the Writing section. - TOEFL internet based test: 92 overall, with minimum sub-scores for Listening, Reading, Writing and Speaking of 19, 18, 23 and 19 respectively.	Advice OLC; approval FGV (9.38 sub b)
6. 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)
7. The Admission Board will investigate whether the applicant meets the admission requirements.	Advice OLC; approval FGV (9.38 sub b)

Article 7.3 Selection criteria

1. In addition to the admission requirements referred to in Article 7.2, the Faculty board also sets (at least two of) the following selection criteria: a. Skills and knowledge on three topics (see also article 7.2 1a): 1) molecular biology, 2) computer science and 3) mathematics, need to be at an appropriate level and in addition general scientific analytical skills need to be at an adequate level. This should be demonstrated in the academic transcript and motivation letter of the applicant. The following criteria can be used as a guideline:	Advice OLC; approval FGV (9.38 sub b)
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• The overall GPA is at least 65% for a BSc degree from an academic university and in addition sufficient knowledge and skills have been demonstrated for two out of the three topics. • The overall GPA is at least 70% for a BSc degree from an academic university and in addition sufficient knowledge and skills have been demonstrated for one out of the three topics. • The overall GPA is at least 70% for a BSc degree from a university of applied sciences and in addition sufficient knowledge and skills have been demonstrated for two out of the three topics. • The overall GPA is at least 75% for a BSc degree from a university of applied sciences and in addition sufficient knowledge and skills have been demonstrated for one out of the three topics. b. The motivation for the programme has been clearly demonstrated by a motivation letter stating the reasons why the student wants to study Bioinformatics and/or Systems Biology and explaining how they think they have acquired the required knowledge and skills.	
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Article 7.4 Pre-Master's programme

1. Applicants with a Bachelor's degree from a university of applied sciences (HBO) or a Bachelor's degree from a research university (WO) who wish to enter the programme but do not fulfill the admission requirements as stipulated in Article 7.2 can request admission to the pre-Master's programme.	Advice OLC; approval FGV (9.38 sub b)																					
2. Applicants must, in addition to paragraph 1 above, also satisfy the following requirements: a. Admission to the pre-Master's programme is possible for an applicant who has obtained a Bachelor's degree at an institution of academic higher education in any of the following – or closely related – disciplines: Artificial Intelligence, Biology, Biomedical Sciences, (Bio/Medicinal), Biotechnology, (Bio)Chemistry, Business Analytics, Computer Science, Data Science, Engineering, Health Sciences, (Bio)Informatics, Mathematics, Medical (Natural) Sciences, Medicine, Pharmaceutical Sciences or (Medical/Bio) Physics. b. Applicants are expected to have maths skills at the level of either Mathematics A in Dutch pre-university education <i>VWO</i> (final examination) or Mathematics B in Dutch senior general secondary education <i>HAVO</i> (final examination).	Advice OLC; approval FGV (9.38 sub b)																					
3. A candidate must demonstrate that they meet the language requirements, as specified in Article 7.2.																						
4. The pre-Master's programme typically has a size of 30 credits. The pre-Master's enrolees follow a customised set of modules, depending on their prior education, which may be comprised of the following units:	Advice OLC; approval FGV (9.38)																					
<table><tr><th>Course code</th><th>Course</th><th>Credits</th></tr><tr><td colspan="3">Recommended courses (12EC)</td></tr><tr><td>X_401094</td><td>Principles of Bioinformatics</td><td>6</td></tr><tr><td>XB_0073</td><td>Research Questions in Bioinformatics</td><td>3</td></tr><tr><td>XB_0078</td><td>Basics of Systems Biology</td><td>3</td></tr><tr><td colspan="3">Compulsory courses as determined by the Admission Board, dependent on the primary BSc (6-18EC) *</td></tr><tr><td colspan="3">The recommended deficiency courses are listed below.</td></tr></table>		Course code	Course	Credits	Recommended courses (12EC)			X_401094	Principles of Bioinformatics	6	XB_0073	Research Questions in Bioinformatics	3	XB_0078	Basics of Systems Biology	3	Compulsory courses as determined by the Admission Board, dependent on the primary BSc (6-18EC) *			The recommended deficiency courses are listed below.		
Course code	Course	Credits																				
Recommended courses (12EC)																						
X_401094	Principles of Bioinformatics	6																				
XB_0073	Research Questions in Bioinformatics	3																				
XB_0078	Basics of Systems Biology	3																				
Compulsory courses as determined by the Admission Board, dependent on the primary BSc (6-18EC) *																						
The recommended deficiency courses are listed below.																						

X_400617 or X_400636	Calculus (NL) or Calculus 1 (EN) (this course assumes a higher starting level)	6
X_401096	Introduction to Programming (Python)	6
AB_1137	Biochemistry	6
XB_0030	Biochemistry	6
Electives (0-12 EC)		
AB_1052	From Protein to Cell	6
AB_1291	Metabolomics	6
XB_0074	Extended Research Questions Bioinf	6
X_422589	Mechanics and Thermodynamics in the Cell	6
X_400435	Information Retrieval	6
X_400083	Knowledge and Data	6
AB_1022	Evolutionary Genetics	6
XB_0014	Data Wrangling	6
X_400042	Linear Algebra	6
* Note that some of these courses are taught in Dutch, as indicated with (NL). Please contact the course coordinator directly if you have questions about the language		
The following terms also apply: a. If the pre-Master's enrollee is completing an individualised pre-Master's programme, this is to be communicated to the enrollee in writing. b. The Examination Board can, if the pre-Master's enrollee submits a written request, exempt the enrollee from one or more examinations. c. Article 3.5.4 does not apply to pre-Master's enrollees.		
5.	Evidence that the pre-Master's programme has been completed successfully will entitle the enrollee to admission to the relevant Master's programme in the following academic year.	Advice OLC; approval FGV (9.39)
6.	The pre-Master's programme must be completed within one academic year.	Advice OLC; approval FGV (9.39)

8. Examinations and results

Article 8.1 Sequence of examinations

1. Students may participate in the examinations and/or practical exercises of the components below only if they have passed the examinations for the following units of education:	Advice OLC; approval FGV (7.13 h, s & t)
- "Minor research project" XM_0072 after passing all "compulsory taught courses", as defined in article 10;	
- "Major research project" XM_0103 or XM_0104 after passing all "compulsory taught courses" and all "specialisation taught courses", as defined in article 10;	
- "Literature review" XM_0007 after passing all "compulsory taught courses", as defined in article 10.	

Article 8.2 Validity period for results

1. If a student's understanding and skills as evaluated in the exam are demonstrably outdated, the Examination Board may impose a supplementary or replacement examination for a unit of education for which an examination was passed more than five years ago.	Advice OLC; approval FGV (7.13 k)
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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)
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Article 9.2 Tracks and/or specialisations

The programme has the following tracks and/or specialisations: - Bioinformatics - Systems Biology One or both of the available specialisations must be chosen.	Approval OLC; (7.13 a)
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Article 9.3 Programme objective

The programme aims at: providing students with sufficient knowledge, understanding and skills to translate biomolecular problems into models or computational methods, providing enough focus to understand and perform current research in Bioinformatics and/or Systems Biology, and providing enough balance such that all skills and knowledge required for this are obtained during the programme. This results in the following objectives: ▪ teaching students to conduct empirical research to develop their practical skills, knowledge and insights into bioinformatics and/or systems biology (focus); ▪ enabling students to perform research in various application fields of bioinformatics and/or systems biology (balance); ▪ teaching key techniques and formalisms (focus), while providing sufficient options for differentiation (balance); ▪ teaching students the technical skills of programming and modelling, all applied to problems in molecular biology and genomics (translation); ▪ providing a student-oriented education that is of high, internationally recognised quality (focus); ▪ providing a feasible study programme to a heterogeneously composed student population in an inspiring academic learning environment of two universities (balance).	Advice OLC; (7.13 a)
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Article 9.4 Exit qualifications

1. At all events, a graduate of the study programme will have: - knowledge and understanding in the field of bioinformatics and systems biology Note that the below exit qualifications are organised according to the associated Dublin Descriptors with the three key elements “translation”, “focus” and “balance”¹ indicated between square brackets.	Approval OLC (7.13)
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¹ “Training for translation between disciplines: a philosophy for life and data sciences curricula” Feenstra, Abeln, Westerhuis, Brancos dos Santos, Molenaar, Teusink, Hoefsloot, Heringa. Bioinformatics, 2018, [doi: 10.1093/bioinformatics/bty233](https://doi.org/10.1093/bioinformatics/bty233)

<u>Knowledge and understanding</u> 1. both a solid academic basic as well as specialist knowledge and understanding in the field of bioinformatics and systems biology and in one or more sub-areas of bioinformatics and systems biology, and related fields such as biophysics, biochemistry, mathematical modelling and cell biology [focus and balance]; 2. the ability to access and use international professional literature and master current scientific research developments and has knowledge of current scientific developments within relevant subdomains of bioinformatics and systems biology [focus and translation]; 3. knowledge and understanding of the (iterative) research process in Bioinformatics and/or Systems Biology: i.e. the relation between model, experiment, data analysis and the biological system [focus]. <u>Applying knowledge and understanding</u> 4. the skills to analyse and interpret biological patterns and processes in both a qualitative and quantitative sense and make inferences based on these scientific results [balance and focus]; 5. acquired profound knowledge, insight and practical experience in at least one specialist area of bioinformatics or systems biology [focus]; 6. insight of the applications of bioinformatics and systems biology in general and specific specialisations in particular and is able to apply this knowledge in new and continuously changing practical situations, also in broader, multidisciplinary contexts [translation]; 7. the ability to independently set up and implement experiments contributing to a line of research [focus, balance and translate]. <u>Making judgements</u> 8. the ability to get acquainted with a field of study and acquire specialist knowledge, understanding and skills in a short period of time [focus and translation]; 9. the ability to continue his/her career either as a researcher able to pursue a PhD degree at the best universities, as a scientist in research institutes worldwide, or as a research-skilled professional in organisations of government, civil society or business and industry [balance and translation]; 10. an attitude that enables critical reflection and discussion [translation]. <u>Communication skills</u> 11. the skills to present research projects and results both orally and written in English, at various scales and levels of abstraction, and communicate these to specialist and non-specialist audiences [focus and translation]. <u>Learning skills</u> 12. the ability to successfully fulfil a position in society requiring an academic qualification as an independently operating professional that has a good knowledge base and attitude towards a biological approach to relevant societal issues [translation];	
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13. capability of writing research or project proposals on the basis of realistic problem descriptions or to write a critical essay based on literature within a specialised field of study and one's opinion [translate and focus]	
2. Notwithstanding the provisions of paragraph 1: - A graduate of the track/specialisation Bioinformatics will have the qualifications mentioned above in the field of Bioinformatics. - A graduate of the track/specialisation Systems Biology will have the qualifications mentioned above in the field of Systems Biology.	Approval OLC (7.13 b)
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 is English.	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.	Ordinance CvB, see Appendix III
2. Additionally the programme can offer: - Compulsory taught courses" comprising 18 EC; - "Specialisation taught courses" that are specific to the specialisation comprising 18 EC. Students need to choose at least one specialisation; - Optional courses comprising 18-36 EC (in case only a single specialisation is chosen); - One constrained choice course of 6 EC; - A minimum of 42 EC and a maximum of 60 EC in academic internships in the form of an optional minor and a compulsory major research project, whereby the major research project comprises of at least 30 EC and should be within the field of the chosen specialisation; in case both the Bioinformatics and Systems Biology specialisation are chosen, a student must complete a Major Bioinformatics and a Major Systems Biology project, of 30 EC each; - A student may be required to follow "conversion courses" at Bachelor level – such courses should first be approved by the academic mentor. No more than 6 EC of such BSc level courses can count towards the 18 EC of optional courses.	Advice OLC; (7.13 a)
3. Units of education are categorized as specialised (400), research-oriented (500) and highly specialised (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.

Unit of education	course code	nr of EC	level	CMa
Fundamentals of Bioinformatics	X_405052	6	400	
Introduction to Systems Biology	X_428565	6	400	
Biosystems Data Analysis	XM_0078	6	400	

<i>Constrained choice (choose 1)</i>			
Quantitative Single-cell Biology	XM_0084	6	500
Image Processing and Quantitative Data Analysis	XM_0085	6	500
<i>Conversion courses</i>			
Introduction to Programming (python)	X_401096	6	100
Calculus	X_400617	6	100
<u>Major Bioinformatics</u>			
Algorithms in Sequence Analysis	X_405050	6	600
Structural Bioinformatics	X_405019	6	500
Bioinformatics for Translational Medicine	X_405092	6	500
Major Bioinformatics Research Project BSB	XM_0103	60	600
<u>Major Systems Biology</u>			
Basic Models of Biological Networks	X_418154	6	500
Systems Biology in Practice	XM_0079	6	500
Statistics with R	X_418156	6	400
Major Systems Biology Research Project BSB	XM_0104	60	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; (7.13 a)
Name of unit of education	course code	nr of EC	level	
Protein Science	AM_470145	6	400	
Evolutionary Computing	X_400111	6	400	
Knowledge Representation	XM_0059	6	400	
Deep Learning	XM_0083	6	500	
Drug Target Biochemistry and Signaling	XM_0111	6	400	
Algorithms in Sequence Analysis	X_405050	6	600	
Basic Models of Biological Networks	X_418154	6	500	
Brain Imaging	P_MBRIMAG_AI	6	400	
Systems Biology in Practice	XM_0079	6	400	
Scientific Machine Learning	XM_0138	6	400	
Machine Learning	X_400154	6	300	
Structural Bioinformatics	X_405019	6	500	
Computational Biology	XMU_0032	6	500	
Biomolecular Simulations	XMU_0036	6	500	
Data Mining Techniques	X_400108	6	500	
Bioinformatics for Translational Medicine	X_405092	6	500	
Statistics with R	X_418156	6	400	
Machine Learning for the Quantified Self	XM_40012	6	400	
Literature Review (UvA)	XM_0007	6	600	
Minor Research Project M BSB	XM_0072	30	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. The student can choose to participate in the minor Tesla, offered at the UvA, as part of the master programme. a. The Minor Tesla consists of 30 EC. The minor must be combined with a research				Advice OLC; (7.13 a)

programme, comprising at least 90 EC of the general compulsory components (courses, research project and literature study) in order to meet the general requirements of the programme. The minor consist of a course component and a project-based component. This project-based component has to be supervised by a Faculty examiner and is subject to prior approval of the Examinations Board. Because it is a multidisciplinary minor an examiner from the research programme has to be appointed as a second assessor. Further information on this minor can be found at http://www.student.uva.nl. b. Students have to go through a separate intake procedure for admission to the minor Tesla; c. Students first have to finish at least 60 EC of the compulsory part of the programme (60 EC) before starting the minor; d. It is not permitted to take the obligatory research part of the programme and the minor simultaneously; e. The minor Tesla will replace the Second Research Project (Minor Research Project M BSB / XM_0072) for 30 EC; f. The student can participate in the minor Tesla without prior approval of the Examinations Board when following the programme as described here; g. It is not permitted to participate in both iGEM project and minor Tesla during the Master's programme.	
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Article 10.4 Practical exercise

Not applicable.

Article 10.5 Participation in practical training and tutorials

1. In the case of practical exercises, students must attend at least 80% of the practical sessions. Should they attend less than 80%, they must repeat the practical exercise, or the Examination Board may issue one or more supplementary assignments.	Approval OLC (7.13 d)
2. 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: - For students who started before September 2021 the 6 EC of "constrained choice of courses" may be replaced by any "optional course" of at least level 400. - For students who started before September 2021, the "Major research project" with code XM_0103 or XM_0104 may replace the "Major research project" with code XM_0070 or XM_0071 respectively. - For students who started before September 2023, course ADMET X_432721 may count as an elective course. - As of academic year 2024-2025, the Bachelor course Machine Learning will be replaced in the curriculum by a new Master course Scientific Machine Learning	Advice OLC (7.13 a)
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(introduced in 2023-2024, XM_0138), and Bachelor courses will no longer be allowed as part of the Master curriculum. Students who start in September 2023 are also expected to enrol in the Master course Scientific Machine Learning.	
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Approval of the Programme Committee of the curriculum structure (submitted via UAS), on December 21, 2022.

Advice and approval by the Programme Committee (with the exception of the curriculum structure), on May 11, 2023.

Approved by the Faculty Joint Assembly, on June 23, 2023.

Adopted by the board of the Faculty of Sciences, on June 23, 2023.

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

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 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, 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
OpIC:	Programme Committee
I:	right of approval
A:	right of advice

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

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

Appendix IV

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

(English below)

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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