

# **Teaching and Examination Regulations**

## **Bachelor's programme in Computer Science Faculty of Science**

**Academic year 2022-2023**

A. Faculty section

B1. Programme specific section - general provisions

B2. Programme specific section - content of programme

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## Section A: Faculty section

### 1. General provisions

#### Article 1.1 Applicability of the Regulations

|                                                                                                                                                                                                                                                                                                           |                                       |
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| 1. These Regulations apply to anyone enrolled in the programme, irrespective of the academic year in which the student was first enrolled in the programme. This applies to both the faculty section (part A), and the programme-specific section (part B) of these Teaching and Examination Regulations. | Advice OLC, approval FGV (9.38 sub b) |
| 2. These Regulations enter into force on 1 September 2022.                                                                                                                                                                                                                                                | Advice OLC, approval FGV (9.38 sub b) |
| 3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this does not demonstrably damage the interests of students.                                                                                                             | Advice OLC, approval FGV (9.38 sub b) |

#### Article 1.2 Definitions

The following definitions are used in these Regulations (*in alphabetical order*) :

- a. academic year: the period beginning on 1 September and ending on 31 August of the following calendar year;
- b. CvB: the Executive Board of Vrije Universiteit Amsterdam;
- c. double degree programme: joint programme in the context of cooperation between Vrije Universiteit Amsterdam and an educational institution within or outside the Netherlands, as to gain a double university degree; of the VU and the educational institution concerned; though not being the same as a 'joint degree programme' according to the art. 7.3c WHW;
- d. EC (European Credit): A course credit with a workload of 28 hours of study;
- e. examination: the final examination of the bachelor's programme (in accordance with the WHW: the entirety of all interim examinations within the programme);
- f. exemption: exemption from an examination/practical/fieldwork based on an earlier successfully completed examination, or knowledge/skills of a similar content, level and scope gained outside higher education;
- g. FGV: Faculty joint assembly – assembly of the faculty student council and faculty staff council;
- h. interim examination: an assessment of the student's knowledge, understanding and skills relating to an educational component. The assessment is expressed in terms of a final mark. An interim examination may consist of one or more partial examinations. A resit of an interim examination covers the same material as the original interim examination;
- i. joint degree: a degree awarded by an institution together with one or more institutions in the Netherlands or abroad, after the student has completed a study programme (a degree programme, a major or a specific curriculum within a degree programme) for which the collaborating institutions are jointly responsible;
- j. OLC: programme committee;
- k. period: a part of a semester;

- l. practical exercise: the participation in a practical training or other educational learning activity, aimed at acquiring certain (academic) skills. Examples of practical exercises are:
- researching and writing a thesis or dissertation
  - carrying out a research assignment
  - taking part in fieldwork or an excursion
  - taking part in another educational learning activity aimed at acquiring specific skills, or
  - participating in and completing a work placement;
- m. programme: the totality and cohesion of the units of education, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
- n. SAP/SLM: the student information system (*Student Lifecycle Management*);
- o. semester: the first (September - January) or second half (February - August) of an academic year;
- p. specialization: optional route of study within a degree programme indicating a deepening of the (inter/multi) disciplinary context of the programme;
- q. 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);
- r. study guide: the guide for the study programme that provides further details of the courses, provisions and other information specific to that programme. The Study Guide is available electronically at:  
<https://www.vu.nl/en/study-guide/>;
- s. study monitor: (*studiemonitor*): dashboard for students and academic advisors with data of the student and that provides insight into the student's study progress;
- t. subject: see 'unit of education';
- u. substituting course/unit of education: see under c (double degree programme). A course obtained at the other educational institute, within the context of cooperation, that is mentioned in the diploma supplement as such; not being an 'exemption';
- 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. thesis/internship work placement: scientific research, always resulting in a written report;
- x. unit of education: a unit of study of the programme within the meaning of the WHW;
- y. university: Vrije Universiteit Amsterdam;
- z. WHW: the Dutch Higher Education and Research Act (*Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek*);
- aa. workload: the workload of the unit of study to which an interim examination applies, expressed in terms of credits = EC (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1,680 hours) is 60 EC.

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

## 2. Study programme structure

### Article 2.1 Structure of academic year and units of education

|                                                                                                                                                                                           |                                 |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. The study programme will be offered in a year divided into two semesters.                                                                                                              | Ordinance CvB, see Appendix III |
| 2. Every semester consists of three consecutive periods. The first two periods each consist of eight weeks, and the final period consists of four weeks.                                  | Ordinance CvB, see Appendix 3   |
| 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 |

### Article 2.2 Frame study programme

|                                                                                                                                                                                                                                                          |                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|
| 1. The Bachelor's programme consists in any case of the following components:<br>a. Academic development of at least 24 EC<br>b. Major/compulsory components of at least 90 EC<br>c. Elective components of study of at least 30 EC at an academic level | Ordinance CvB, see Appendix III |
| 2. In the first year of the programme, the programme will offer at least fourteen contact hours a week, with the exception of holiday weeks and examination weeks.                                                                                       | Ordinance CvB, see Appendix III |
| 3. In the second and third years of the programme, the programme will offer at least twelve contact hours a week, with the exception of holiday weeks and examination weeks.                                                                             | Ordinance CvB, see Appendix III |
| 4. Internationalization is included as part of the Bachelor's programme and reflected in one or more units of education.                                                                                                                                 | Ordinance CvB, see Appendix III |

### Article 2.3. Sequence of the programme

|                                                                                                            |                          |
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| 1. Students will be admitted to the final project if conditions as stated in Article 9.1 (part B) are met. | Advice OLC, approval FGV |
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## 3. Assessment and examination

### Article 3.1 Signing up for education and interim examinations

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

### Article 3.2 Type of examination

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

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                   |
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| 1. The examiner determines the result of a written interim examination within fifteen working days. By way of departure from that stipulated in the first clause, the marking deadline for theses and final assignments is no longer than twenty working days. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.       | Ordinance CvB, see Appendix III   |
| 2. a. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, but at the latest within one working day after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies.<br>b. The examiner determines the result of a(n) (partial) interim examination at least five working days prior to the next (partial) interim examination opportunity, with the exception of weekly assignments. | Advice OLC; approval FGV (7.13 o) |
| 3. In the case of assessments other than oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.                                                                                                                                                                                                                                                                                            | Advice OLC; approval FGV (7.13 o) |

#### Article 3.5 Examination opportunities

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                   |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|
| 1. a. Per academic year, two opportunities to take examinations will be offered for each unit of education.<br>b. By way of exception to a., the options for retaking practical exercises, work placements and theses are detailed in the relevant work placement manual, teaching regulations or graduation regulations.                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ordinance CvB, see Appendix III   |
| 2. The most recent mark will apply in the event of a resit. A resit is allowed for both passed and failed units of study.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Ordinance CvB, see Appendix III   |
| 3. The resit for a (partial) interim examination must not take place within ten working days of the announcement of the result of the (partial) examination being resat.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Advice OLC; approval FGV (7.13 j) |
| 4. The Examination Board may allow students an extra opportunity to sit an interim examination if they:<br>a) lack only those credits to qualify for their degree; and<br>b) have failed the interim examination during all the previously offered attempts unless participation in an interim examination was not possible for compelling reasons.<br><br>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 Bachelor's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide. | Ordinance CvB, see Appendix III   |
| 5. If a unit of education is no longer offered in the following academic year and disappears from the curriculum, one opportunity will be provided to sit the interim examination(s) or parts thereof in the following academic year at the latest and a transitional arrangement for the subsequent period will be included in the programme-specific section of the teaching and examination regulation (part B).                                                                                                                                                                                                                                                                                                                                                        | Advice OLC, approval FGV (7.13 j) |

#### Article 3.6 Marks

|                                                                                                          |                                 |
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| 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 |
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| <p>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.</p> <p>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:</p> <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,<br>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    |       |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |                                    |
| <p>3. To pass a given course or unit, a final mark of 6 or higher is required.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ordinance CvB,<br>see Appendix III |       |       |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |                                    |
| <p>4. The Examination Board can allow the use of symbols rather than numbers, for example; v(oldaan), g(oed), n(iet)v(ol)d(aan), etc. In case a student does not take part in any (interim) examination, the examiner will register the mark 'ns' (c.q. no show).</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ordinance CvB,<br>see Appendix III |       |       |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |     |      |      |    |                                    |

### Article 3.7 Exemption

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| <p>1. At the written request of the student, the Examination Board may exempt a student from taking one or more examination components, if they:</p> <ul style="list-style-type: none"> <li>a) have either passed a unit of education at a university of applied sciences (HBO) or research university (WO) that is equivalent in terms of content and level;</li> <li>b) or have demonstrated through their work and/or professional experience that they have sufficient knowledge and skills with regard to the relevant unit of education.</li> </ul> | <p>Advice OLC; approval FGV (7.13 r)</p>     |
| <p>2. The Bachelor's thesis is excluded from this exemption possibility.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <p>Advice OLC; approval FGV (9.38 sub b)</p> |
| <p>3. a. A maximum of 60 EC of the curriculum can be accumulated through granted exemptions for one three-year bachelor programme. The substituting courses (courses obtained at another educational institute within the context of a double degree, see art. 1.2) are not included.</p> <p>b. This regulation does not apply if a student is (simultaneously) enrolled in multiple</p>                                                                                                                                                                  | <p>Advice OLC; approval FGV (9.38 sub b)</p> |

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| 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. |  |
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#### Article 3.8 Validity period for results

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| 1. The validity period of interim examinations passed and exemption from interim examinations is unlimited, unless otherwise specified in Section B.                                                            | Legal provision                             |
| 2. The validity period of a partial examination is limited to the academic year in which it was sat or until the end of the unit of study concerned, as stipulated for the relevant unit of study in Section B. | Advice OLC;<br>approval FGV<br>(9.38 sub b) |

#### Article 3.9 Right of inspection and post-examination discussion

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| 1. Within twenty working days after the announcement of the results of a written interim examination, but at least ten working days before the resit opportunity for that interim examination, the student can submit a request to inspect their assessed work, the questions and assignments set in it, as well as the standards applied for marking. The place and time referred to in the previous clause will be announced on VU.nl Dashboard or Canvas in all cases. | Advice OLC;<br>approval FGV<br>(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;<br>approval FGV<br>(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;<br>approval FGV<br>(7.13 p and q) |

### 4. Honours programme

#### Article 4.1 Honours programme

|                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                    |
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| 1. Vrije Universiteit Amsterdam offers an honours programme for students who meet the admission requirements. The honours programme consists of units of education taken in addition to the standard curriculum.                                                                                                                                                                                                                                              | Ordinance CvB,<br>see Appendix III |
| 2. The honours programme comprises 30 EC, a minimum of 12 EC of which consist of faculty or programme honours components and a minimum of another 12 EC consist of interfaculty honours components. The choices available to the student will be published on the website ( <a href="http://www.vu.nl">www.vu.nl</a> ).                                                                                                                                       | Ordinance CvB,<br>see Appendix III |
| 3. For admission to the honours programme, the student must have secured all credits from the first year by no later than 31 August of the relevant year, and have been awarded a weighted average mark of at least a 7.5.                                                                                                                                                                                                                                    | Ordinance CvB,<br>see Appendix III |
| 4. Students who have met the requirements of the regular Bachelor's programme within the nominal duration of study, who have achieved a grade point average (GPA) of at least 7.5 for all components of the Bachelor's programme (excluding the honours components) and who have also met the requirements of the honours programme will receive a Bachelor diploma with a transcript indicating that they have successfully completed the honours programme. | Ordinance CvB,<br>see Appendix III |
| 5. First-year Bachelor's students can participate in honours components during the second semester, on the condition that they have earned 30 EC during the first semester                                                                                                                                                                                                                                                                                    | Ordinance CvB,<br>see Appendix III |

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

### Article 5.1 Administration of study progress and academic student counselling

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| 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;<br>approval FGV<br>(7.13 u) |
| 2. Enrolled students are eligible for academic student counselling. Academic student counselling is provided by<br>a. The Student General Counselling Service<br>b. Student psychologists<br>c. Faculty academic advisers                                                                                                | Advice OLC;<br>approval FGV<br>(7.13 u) |

### Article 5.2 Recommendation on continuation of studies

|                                                                                                                                                                                                                                                                                                                                                                 |                                    |
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| 1. The faculty board will issue every student on a full-time Bachelor's programme with a recommendation on continuation of their studies, at the end of the first year of study. The recommendation on continuation of studies is issued on behalf of the faculty board by the faculty BSA committee.                                                           | Ordinance CvB,<br>see Appendix III |
| 2. Prior to 1 February, the student will receive an overview of their results.                                                                                                                                                                                                                                                                                  | Ordinance CvB,<br>see Appendix III |
| 3. Students who have not completed enough credits, will receive a warning with the overview (see paragraph 2) stating that if insufficient improvement in their performance is forthcoming by the end of the academic year, they will be advised not to continue their studies. These students will also be advised to plan a meeting with an academic adviser. | Advice OLC<br>(7.13 f)             |
| 4. If the recommendation at the end of the academic year is negative the provisions of Article 5.3 apply.                                                                                                                                                                                                                                                       | Advice OLC<br>(7.13 f)             |
| 5. A recommendation will not be issued if the student terminates their enrolment before 1 February of their first academic year.                                                                                                                                                                                                                                | Advice OLC<br>(7.13 f)             |

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

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                    |
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| 1. The recommendation issued at the end of the academic year will contain a binding rejection if the student has not achieved the standard required for a positive recommendation on continuation of studies. A recommendation on continuation of studies will not be issued if the student demonstrates that they have not been able to meet the standard described in Article 2.1 of the Higher Education and Research (Implementation) Act ( <i>Uitvoeringsbesluit WHW</i> ) due to personal circumstances. In order to obtain a positive recommendation on continuation of studies, the student must have obtained at least 42 EC from first year courses by the end of the first year of enrolment. | Ordinance CvB,<br>see Appendix III |
| 2. As soon as possible after the last resits of the second semester of the first year, a student who has not met the standard will be informed that the faculty board intends to issue them with negative binding recommendation on continuation of studies. The same procedure applies in the next year of enrolment if the student was permitted to continue with their study programme as a result of personal circumstances and has still not successfully met all of the requirements of the first year of study by that time.                                                                                                                                                                      | Ordinance CvB,<br>see Appendix III |

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| No recommendation will be issued to students if they demonstrate that they once again did not meet the standard as a consequence of personal circumstances.                                                                                                              |                                 |
| 3. Along with the information referred to in the previous paragraph, students will also be informed of the possibility of being heard by the BSA committee and of how they can apply for such a hearing.                                                                 | Ordinance CvB, see Appendix III |
| 4. As soon as possible (no more than ten working days) after the end of the hearing and after the BSA committee has issued its advice, the faculty board will issue the definitive recommendation on continuation of studies.                                            | Ordinance CvB, see Appendix III |
| 5. Students may lodge an appeal against a decision on a binding negative recommendation on continuation of studies with the Examination Appeals Board of Vrije Universiteit Amsterdam within six weeks of the day of the decision's announcement.                        | Ordinance CvB, see Appendix III |
| 6. Students who receive a binding negative recommendation on continuation of studies may therefore not enrol in the same Bachelor's programme or Bachelor's programme(s) with the same first year as defined in Article 14.1.2 of section B for a period of three years. | Ordinance CvB, see Appendix III |

#### Article 5.4 Personal circumstances

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| 1. The faculty board will not include a rejection in the binding recommendation on the continuation of studies in the case of personal circumstances, as described in Article 2.1 of the Higher Education and Research (Implementation) Act, as a result of which the student concerned cannot have been reasonably expected to have met the BSA standard.                                                                                                                                                                                                                                                        | Advice OLC (7.13 f) |
| 2. If a circumstance, as described in Article 2.1 of the Higher Education and Research (Implementation) Act, should occur, students must notify the academic adviser office as soon as possible, providing details of: <ol style="list-style-type: none"> <li>the period in which the circumstance occurs or occurred;</li> <li>a description of the circumstance and its seriousness;</li> <li>the extent to which they cannot or could not participate in instruction/classes or an interim examination.</li> </ol> It is students' responsibility to submit documentary evidence to substantiate their report. | Advice OLC (7.13 )  |
| 3. If required, the academic adviser may advise the BSA committee on the extent to which personal circumstances have influenced the student's study progress.                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Advice OLC (7.13 f) |

#### Article 5.5 Facilities for students with a disability

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| 1. A student with a disability can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and interim examinations. These facilities will accommodate the student's individual disability as much as possible, but may not alter the quality or degree of difficulty of a unit of study or an examination. In all cases, the student must fulfil the exit qualifications for the study programme. | Advice OLC; approval FGV (7.13 m) |
| 2. The request referred to in the first paragraph must be accompanied by a statement from a medical 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) |

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| 4. The faculty board, or the responsible person on behalf of the faculty board, decides on teaching facilities and facilities regarding logistics. The Examination Board will decide on requests for facilities with regard to examinations.                                                                                                                                                                                                  | Advice OLC;<br>approval FGV<br>(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 facilities.                                                                                                                                                                                                                                        | Advice OLC;<br>approval FGV<br>(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;<br>approval FGV<br>(7.13 m) |
| 7. If the disability justifies an extension of the interim examination time, the responsible person on behalf of the Examination Board will register in SAP this entitlement to an extension. If a disability justifies other measures to be taken, the Examination Board will advise the Faculty Board on the necessary measures to be taken. The student can consult the study monitor to check which facilities have been granted to them. | Advice OLC;<br>approval FGV<br>(7.13 m) |
| 8. The decision as referred to in paragraph 4 is valid for a maximum period of one year with the exception for chronic diseases and disabilities.                                                                                                                                                                                                                                                                                             | Advice OLC;<br>approval FGV<br>(7.13 m) |

## 6. Hardship clause

### Article 6.1 Hardship clause

|                                                                                                                                                                                                                                                                                               |                                             |
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| 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;<br>approval FGV<br>(9.38 sub b) |
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## Section B1: Programme specific – general provisions

### 7. General programme information and characteristics

#### Article 7.1 Study programme information

|                                                                                                  |                                         |
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| 1. The bachelor programme Computer Science, CROHO number 50426, is offered on a full-time basis. | Advice OLC;<br>approval FGV<br>(7.13 i) |
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#### Article 7.1a Deviant size of units of education

| By way of derogation from art. 2.1.3, the units listed below have a deviant size of 0, 3 or 15 EC: |                                   |    | Approval OLC<br>(art. 7.13 sub e),<br>approval CvB |
|----------------------------------------------------------------------------------------------------|-----------------------------------|----|----------------------------------------------------|
| Course code                                                                                        | Name course                       | EC |                                                    |
| X_401087                                                                                           | Introduction to Computer Science  | 3  |                                                    |
| XB_0046                                                                                            | Computational Thinking for Coders | 3  |                                                    |
| XB_0075                                                                                            | Academic Writing for CS           | 3  |                                                    |
| XB_0076                                                                                            | History of Science for CS         | 3  |                                                    |
| X_400433                                                                                           | Philosophy and Ethics             | 3  |                                                    |
| XB_40001                                                                                           | Bachelor Project Computer Science | 15 |                                                    |
| VU_ELT                                                                                             | English Language Test             | 0  |                                                    |

#### Article 7.2 Teaching formats used and modes of assessment

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

#### Article 7.3 Academic student counselling

|                                                                                                                                                                                       |                                         |
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| 1. The programme offers the following counselling in addition to the student counselling mentioned in Section A:<br>- There is an Academic Advisor for the Bachelor Computer Science. | Advice OLC;<br>approval FGV<br>(7.13 u) |
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### 8. Further admission requirements

#### Article 8.1 Additional previous education requirements

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| 1. Students who meet the previous education requirements as stipulated in the current 'Regulations on Registrations and Admissions in Higher Education' ( <i>Regeling Aanmelding en Toelating Hoger Onderwijs</i> ) (RATHO, OCW)) will gain access to the programme. | Legal provision |
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| 2. Students who do not meet the previous education requirements as stipulated in 'Regulations on Registrations and Admissions in Higher Education' currently in force may still be admitted to the programme by successfully meeting the following requirements: <ol style="list-style-type: none"> <li>1. Mathematics B equivalent to final-examination Dutch pre-university secondary school programmes (VWO), and;</li> <li>2. A command of English equivalent to final-examination Dutch pre-university secondary school programmes (VWO).</li> </ol>                                                                                                                                                                                                                             | Exception in WHW: advice OLC          |
| 3. Sufficient command of the Dutch language can be evidenced by successful completion of: Not applicable                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Ordinance CvB, see Appendix III       |
| 4. Sufficient command of the English language can be evidenced by successful completion of: <ol style="list-style-type: none"> <li>a. IELTS (academic) 6.5;</li> <li>b. TOEFL paper-based test 580; TOEFL internet-based test 92;</li> <li>c. VU English Language Proficiency Test: TOEFL ITP 580;</li> <li>d. Cambridge Certificate of Proficiency in English (CPE) or Cambridge Certificate of Advanced English (CAE): grade A, B or C;</li> <li>e. Official secondary education examination: VWO English language and literature.</li> </ol> <p>Those who have completed English-language education in Canada, the USA, the UK, Ireland, New Zealand or Australia and those who already hold an English-language Bachelor's degree are exempted from the language requirement.</p> | Advice OLC; approval FGV (9.38 sub b) |
| 5. Students who do not meet the previous education requirements but have successfully completed the first year of a bachelor programme at a Dutch University of Applied Sciences (HBO) programme can gain admission to the programme by demonstrating that their level of mathematics is comparable to Mathematics B as taught in Dutch pre-university secondary school programmes (VWO). In addition, they have to demonstrate a command of English comparable to the exit level of Dutch pre-university secondary school programmes (VWO). The Admission Board will assess whether these conditions have been met.                                                                                                                                                                  | Advice OLC; approval FGV (9.38 sub b) |

#### Article 8.2 Colloquium doctum (entrance examination)

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

## 9. Interim examinations and results

### Article 9.1 Sequence of interim examinations

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| 1. Students may participate in the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter: <ol style="list-style-type: none"> <li>Object-Oriented and Functional Programming (XB_0019) after passing Computer Programming (XB_40011) or Computer Programming Project (X_400556).</li> <li>Operating Systems (X_405067) after passing Computer Programming (XB_40011) or Computer Programming Project (X_400556).</li> </ol> | Advice OLC;<br>approval FGV<br>(7.13 h, 7.13 s/t) |
| 2. Students may be admitted to the following specializations only if they have passed the interim examinations of the following units of education:<br><br><b>Not applicable.</b>                                                                                                                                                                                                                                                                                                               | Advice OLC;<br>approval FGV<br>(7.13 h, 7.13 s/t) |
| 3. Students will only be admitted to the final project/thesis if they meet the following conditions: <ul style="list-style-type: none"> <li>- Having accumulated a minimum of 120 EC from BSc Computer Science courses, out of which 60 EC must be first-year courses.</li> </ul> Exemptions to the article above may be granted under extenuating circumstances and need to be approved by the Academic Advisor.                                                                               | Advice OLC;<br>approval FGV<br>(7.13 h, 7.13 s/t) |

### Article 9.2 Validity period for results

|                                                                                                                                                                                                                                                                                                                                                      |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|
| 1. The validity period of the interim examinations and exemptions from interim examinations below is limited as follows: See Article 3.8 of the Teaching and Examination Regulations, section A. No further specific provisions.                                                                                                                     | Advice OLC;<br>approval FGV<br>(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**

### **10. Programme objectives, specializations, exit qualifications and language**

#### **Article 10.1 Programme objective**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <p>1. The programme aims at:</p> <ul style="list-style-type: none"> <li>- Providing students with theoretical and practical knowledge and skills in the field of computer science, including in particular programming, computer systems, software design, algorithms, formal methods, logic, and mathematics and the broader scientific and historical context of computer science;</li> <li>- Preparing students for either progressing to a Master's programme in computer science or a related field, or entering the labor market.</li> </ul> | Advice OLC;<br>(7.13 a) |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|

#### **Article 10.2 Tracks and/or specializations**

|                                                                                |                           |
|--------------------------------------------------------------------------------|---------------------------|
| The programme has the following tracks and/or specializations: Not applicable. | Approval OLC;<br>(7.13 b) |
|--------------------------------------------------------------------------------|---------------------------|

#### **Article 10.3 Exit qualifications**

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                          |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| <p>1. A graduate of the study program will have knowledge and understanding in the field of Computer Science.</p> <p>In particular, a graduate of the study programme will:</p> <ol style="list-style-type: none"> <li>1. Have thorough theoretical and practical knowledge of computer science which will enable the student to successfully complete a Master's programme in the field of computer science or to enter the labor market. This knowledge covers the areas of formal methods, algorithms, logic and mathematics, programming, computer systems, and software design;</li> <li>2. Have become acquainted with research and development in the field of computer science at an academic level and with the associated scientific skills, and have practiced these skills and demonstrated aptitude in applying them;</li> <li>3. Have gained experience in the practical skills that are relevant to the field of computer science, and be capable of applying them in specific and common professional situations. These include using tools to model, assemble, deploy and evaluate computer systems;</li> <li>4. Be aware of the role of computer science in society, including the related ethical issues, as well as the development of the field of computer science and the nature of this academic discipline, and be able to use this awareness when reflecting on his or her own activities and thought processes;</li> <li>5. Be capable of taking a project-based approach, including participation in a multidisciplinary team, and maintain an open attitude with regard to the exploratory development of complex systems;</li> <li>6. Be able to communicate professionally and at an academic level, including the formulation of objectives, the selection of appropriate resources (technology), and the definition of projects and research plans;</li> <li>7. Be familiar with empirical aspects of computer science, especially the evaluation of various types of systems, both in qualitative and quantitative terms;</li> <li>8. Be capable of presenting results clearly and succinctly, both orally and in writing (i.e. reports for professional use or of an academic nature);</li> </ol> | Approval OLC<br>(7.13 c) |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|

|                                                                                                                                                                                          |                          |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 9. Possess the requisite learning skills for entering a university Master's programme, and have demonstrated a clear analytical and problem-solving ability.                             |                          |
| 2. Without prejudice to the provisions of paragraph 1, a graduate of the track or specialization will have the following knowledge and understanding in the field of:<br>Not applicable. | Approval OLC<br>(7.13 b) |
| 3. Language proficiency may be taken into account in the assessment of (interim) examinations.                                                                                           | Approval OLC<br>(7.13 c) |

#### Article 10.4 Language of instruction and language test

|                                                                                                                                                                                         |                                    |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. The language of instruction is English.                                                                                                                                              | Approval OLC<br>(9.18)             |
| 2. The 'Gedragcode vreemde taal' (Code of conduct foreign languages) applies.                                                                                                           | Ordinance CvB,<br>see Appendix III |
| 3. At the start of the first year of study every student must complete a diagnostic language test (VU_ELT) in the language of instruction of his or her Bachelor's programme (English). | Advice OLC;<br>(7.13 a)            |
| 4. Any student who does not achieve a pass in the language test must take the 'Refresher Course' organized by the Language Desk (Taalloket).                                            | Approval OLC<br>(7.13 c)           |
| 5. The language test is part of the following unit of education: Bachelor Computer Science Year 1.                                                                                      | Approval OLC<br>(7.13 c)           |

### 11. Curriculum structure

#### Article 11.1 Academic development

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|
| 1. Academic development is part of the study programme. This includes:<br>(1) Academic skills/critical reasoning<br>(2) Methods & techniques<br>(3) Philosophical training                                                                                                                                                                                                                                                                                                                                                                                                                                   | Ordinance CvB,<br>see appendix 3       |
| 1. (4) Philosophy of Science and/or History of Science<br>(5) Academic English                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Advice OLC;<br>(7.13 )                 |
| 2. Academic development is part of the study programme. This includes:<br>- Academic skills/critical reasoning<br>XB_0075              Academic Writing for CS              3<br>XB_40001            Bachelor Project Computer Science 15<br>- Methods & techniques<br>X_40011              Computer Programming              6<br>X_401087            Introduction to Computer Science 6<br>X_401020            Statistical Methods              6<br>- Philosophical training<br>X_400433            Philosophy and Ethics              3<br>XB_0076              History of Science for CS              3 | Advice OLC;<br>(7.13 )                 |
| 3. Internationalization: not applicable.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Advice OLC<br>(art. 7.13 lid 2<br>WHW) |

## Article 11.2 Major

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

## Article 11.3 Compulsory units of education of the major

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;<br>(7.13 a) |
|--------------------------------------------|-------------|----------|-------|-------------------------|
| <b>Year 1</b>                              |             |          |       |                         |
| Computational thinking for Coders          | XB_0046     | 3        | 100   |                         |
| Computer Networks                          | X_400487    | 6        | 100   |                         |
| Computer Organization                      | XB_40009    | 6        | 100   |                         |
| Computer Programming                       | XB_40011    | 6        | 100   |                         |
| Computer Programming Project               | X_400556    | 6        | 200   |                         |
| Data Structures and Algorithms for CS      | XB_0091     | 6        | 100   |                         |
| English Language Test                      | VU_ELT      | 0        | 000   |                         |
| Introduction to Computer Science           | X_401087    | 3        | 100   |                         |
| Information Management for CS              | XB_0087     | 6        | 100   |                         |
| Logic and Sets for CS                      | XB_0086     | 6        | 100   |                         |
| Networks and Graphs                        | X_401010    | 6        | 200   |                         |
| Web Technology                             | X_400488    | 6        | 100   |                         |
| <b>Year 2</b>                              |             |          |       |                         |
| Object-Oriented and Functional Programming | XB_0019     | 6        | 200   |                         |
| Data Structures and Algorithms             | X_400614    | 6        | 200   |                         |
| Statistical Methods                        | X_401020    | 6        | 200   |                         |
| Operating Systems                          | X_405067    | 6        | 200   |                         |
| Academic Writing for CS                    | XB_0075     | 3        | 100   |                         |
| History of Science for CS                  | XB_0076     | 3        | 200   |                         |
| Software Design                            | XB_40007    | 6        | 200   |                         |
| Study and Career for CS                    | X_400633    | 0        | 200   |                         |
| Databases                                  | X_401008    | 6        | 200   |                         |
|                                            |             |          |       |                         |
| <i>B CS year 2 constrained choice</i>      |             |          |       |                         |
| Current Topics in CS Research              |             |          |       |                         |
| Human-Computer Interaction                 | X_400432    | 6        | 200   |                         |
| Linear Algebra                             | X_400649    | 6        | 200   |                         |
| Logic and modelling                        | X_401015    | 6        | 200   |                         |
| Pervasive Computing                        | XB_40008    | 6        | 100   |                         |
| Requirements Engineering                   | XB_0032     | 6        | 300   |                         |
| Security and Safety Engineering            | XB_0088     | 6        | 200   |                         |
| Software Engineering Processes             | XB_0089     | 6        | 200   |                         |
|                                            |             |          |       |                         |
| <b>Year 3</b>                              |             |          |       |                         |
| Automata and Complexity                    | X_401049    | 6        | 300   |                         |
| Bachelor Project Computer Science          | XB_40001    | 15       | 300   |                         |
| Machine Learning                           | X_400154    | 6        | 300   |                         |

|                       |          |    |         |  |
|-----------------------|----------|----|---------|--|
| Philosophy and Ethics | X_400433 | 3  | 200     |  |
| Minor                 | -        | 30 | 100-300 |  |

#### Article 11.4 Elective units of education of the major

Not applicable

#### Article 11.5 Practical exercise

Not applicable

#### Article 11.6 Participation in practical exercises and tutorials

|                                                                                                                                                                                                                                                                                                                                                                                                                |                          |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|
| 1. In the case of a practical training, the student must attend at least the percentage of the practical sessions indicated by the instructor. Should the student attend fewer than the number of the practical sessions indicated by the instructor, he or she may have to repeat the practical training the following year, or the Examinations Board may have one or more supplementary assignments issued. | Approval OLC<br>(7.13 d) |
| 2. In the case of a tutorial, the student must attend at least the number of the tutorial sessions indicated by the instructor. Should the student attend fewer than the number of the tutorial sessions indicated by the instructor, he or she may have to repeat the tutorial the following year, or the Examinations Board may have one or more supplementary assignments issued.                           | Approval OLC<br>(7.13 d) |

## 12. Electives

#### Article 12.1 Elective period

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| 1. The first semester of the third year of the curriculum comprises at least 30 EC of elective units of education.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Ordinance CvB,<br>see Appendix III |
| 2. For this elective period, the student can take: <ul style="list-style-type: none"> <li>a) a minor (a coherent package of related units of education)</li> <li>b) individual choice of at least five units of education at the faculty or elsewhere, of which at least two (12 EC) must be at level 300 and maximum 1 course (6 EC) at level 100.</li> <li>c) Units of education at a university abroad. For this, the same requirements apply as indicated above. In addition, at a university abroad, students can include maximum one unit of education (6 EC) at Master's level (level 400 or higher) into their programme; this requires permission from the programme concerned. The unit of education concerned can then no longer be included in the student's Master's programme.</li> </ul> | Ordinance CvB,<br>see Appendix III |
| 3. Prior consent must be obtained from the Examination board.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Ordinance CvB,<br>see Appendix III |

#### Article 12.2 Minors

|                                                                                                                                                                                                              |                                  |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|
| 1. The student who meets the admission requirements can take a 'University minor' without prior consent from the Examination Board. The 'University minors' are listed on the VU website.                    | Ordinance CvB,<br>see appendix 3 |
| 2. The student can take one of the following minors without prior consent from the Examination Board: <ul style="list-style-type: none"> <li>- X_MINBSB Minor Bioinformatics and Systems Biology;</li> </ul> | Advice OLC;<br>(7.13a)           |

|   |         |                               |  |
|---|---------|-------------------------------|--|
| - | X_MINDP | Minor Deep programming;       |  |
| - | X_MINDS | Minor Data Science;           |  |
| - | X_MINIS | Minor Information Sciences;   |  |
| - | OMI_INF | Educatieve Minor Informatica. |  |

### 13. Honours programme

#### Article 13.1 Honours components

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

| Name of unit of education                                | course code | nr of EC | level | Advice OLC;<br>(7.13 ) |
|----------------------------------------------------------|-------------|----------|-------|------------------------|
| <i>AI/CS/IS Honours Components</i>                       |             |          |       |                        |
| Honours Research Project 1                               | X_HP003     | 6        | 300   |                        |
| Honours Research Project 2                               | X_HP004     | 6        | 300   |                        |
| Big Ideas in Computing <sup>1</sup>                      | X_HP005     | 6        | 300   |                        |
| Honours Research project 3                               | X_HP006     | 6        | 300   |                        |
| Caput Elective <sup>2</sup>                              | X_HP008     | 6        | 300   |                        |
| Honours Research project 4                               | X_HP009     | 6        | 300   |                        |
| Honours Project Research Community and Practice          | X_HP010     | 6        | 300   |                        |
| <i>Science Faculty Honours Courses</i>                   |             |          |       |                        |
| Evolutionary Origin of Life and its Driving Forces       | A_HP001     | 6        | 400   |                        |
| Communication and Innovation in Health and Life Sciences | A_HP002     | 6        | 400   |                        |
| Five O’Clock Neurosciences                               | A_HP003     | 6        | 400   |                        |
| Nutrition for Healthy Growth and Development             | A_HP004     | 6        | 400   |                        |
| Diversity in Genetic Research                            | A_HP005     | 6        | 400   |                        |
| Climate Repair                                           | A_HP006     | 6        | 400   |                        |
| Project Science and Tech-based Entrepreneurship          | A_HP007     | 6        | 400   |                        |

### 14. Binding recommendation on continuation of studies (BSA)

#### Article 14.1 Binding (negative) recommendation

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

<sup>1</sup> X\_HP005 Big Ideas in Computing may be offered in 2022-2023; Honours students are informed whether the course will take place or not in January.

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

|                                                                                                                                                                                 |                        |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| 3. Different time periods apply for students taking part-time programmes. The recommendation on continuation of studies will be issued at the end of:<br><b>Not applicable.</b> | Advice OLC<br>(7.13 f) |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|

## 15. Evaluation and transitional provisions

### Article 15.1 Evaluation of the education

|                                                                                                                           |                           |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------|
| 1. The education provided in this programme is evaluated in accordance with the document 'Kwaliteitszorg Onderwijs BETA'. | Approval OLC<br>(7.13 a1) |
|---------------------------------------------------------------------------------------------------------------------------|---------------------------|

### Article 15.2 Transitional provisions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|
| <p>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:</p> <ul style="list-style-type: none"> <li>- Logic and Sets X_401090 (offered in period 4 of year 1 in 2021-2022) has been replaced by Logic and Sets for CS XB_0086 (offered in period 2 of year 1 in 2022-2023). Students who took Logic and Sets X_401090 in 2021-2022 and did not obtain a passing grade should enrol in Logic and Sets for CS in 2022-2023.</li> <li>- Data Structures and Algorithms X_400614 (offered in period 1 of year 2 in 2021-2022) has been replaced by Data Structures and Algorithms for CS XB_0091 (offered in period 2 of year 1 in 2022-2023). Data Structures and Algorithms X_400614 will be offered once more in period 1 in 2022-2023 so the students who started in 2021-2022 can take it at the right time. The students who started in 2022-2023 should take Data Structures and Algorithms for CS XB_0091 in period 1.</li> <li>- Pervasive Computing XB_40008 and Requirements Engineering XB_0032 (offered in period 2 of year 1 in 2021-2022) have been moved to period 1 of year 2 in 2022-2023. Students who took Pervasive Computing XB_40008 and Requirements Engineering XB_0032 in 2021-2022 and did not obtain a passing grade should enrol in these courses in period 1 in 2022-2023.</li> <li>- Study and Career for CS X_400633 (offered in period 5 of year 2 in 2021-2022) has been removed from the curriculum in 2022-2023. It is now offered as an optional module that will not appear on the students' academic record. Students who did not pass the course in previous years may take the optional module if they wish to do so. Information will be provided on the Canvas Community page of the Bachelor Computer Science.</li> </ul> | Advice OLC<br>(7.13 a) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|

Approval of the Programme Committee of the curriculum structure (submitted via UAS), on 10-12-2021.

Advice and approval by the Programme Committee (with the exception of the curriculum structure), on 31-05-2022.

Approved by the Faculty Joint Assembly, on 28-06-2022.

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

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

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

### Section A: Faculty section

|                                                                                                      |                              |
|------------------------------------------------------------------------------------------------------|------------------------------|
| <b>2. Study programme structure</b>                                                                  |                              |
| Article 2.1 Structure of academic year and units of education                                        | 7.13 paragraph 2 sub e       |
| Article 2.2 Frame study programme                                                                    | 7.13 paragraph 2 sub a, e, x |
| <b>3. Assessment and examination</b>                                                                 |                              |
| Article 3.2 Type of examination                                                                      | 7.13 paragraph 2 sub h, l, j |
| Article 3.3 Oral interim examinations                                                                | 7.13 paragraph 2 sub l, n    |
| Article 3.4 Determining and announcing results                                                       | 7.13 paragraph 2 sub o       |
| Article 3.5 Examination opportunities                                                                | 7.13 paragraph 2 sub h, j    |
| Article 3.7 Exemption                                                                                | 7.13 paragraph 2 sub r       |
| Article 3.8 Validity period for results                                                              | 7.13 paragraph 2 sub k       |
| Article 3.9 Right of inspection and post-examination discussion                                      | 7.13 paragraph 2 sub p, q    |
| <b>4. Honours programme</b>                                                                          |                              |
| Article 4.1 Honours programme                                                                        | 7.13 paragraph 2 sub v       |
| <b>5. Academic student counselling, recommendation on continuation of studies and study progress</b> |                              |
| Article 5.1 Administration of study progress and academic student counselling                        | 7.13 paragraph 2 sub u       |
| Article 5.2 Recommendation on continuation of studies                                                | 7.13 paragraph 2 sub f       |
| Article 5.3 Binding (negative) recommendation on continuation of studies (BSA)                       | 7.13 paragraph 2 sub f       |
| Article 5.4 Personal circumstances                                                                   | 7.13 paragraph 2 sub f       |
| Article 5.5 Facilities for students with a disability                                                | 7.13 paragraph 2 sub m       |

### Section B1: Programme specific – general provisions

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

### Section B2: Programme specific – content of programme

|                                                                                 |                                        |
|---------------------------------------------------------------------------------|----------------------------------------|
| <b>10. Programme objectives, tracks/specializations and exit qualifications</b> |                                        |
| Article 10.1 Programme objective                                                | 7.13 paragraph 2 sub a                 |
| Article 10.2 Tracks and/or specializations                                      | 7.13 paragraph 2 sub a                 |
| Article 10.3 Exit qualifications                                                | 7.13 paragraph 2 sub b, c              |
| Article 10.4.1 Language of instruction                                          | 9.18 (implementation expected in 2020) |
| Article 10.4.3 Language test                                                    | 7.13 paragraph 2 sub a, c              |
| <b>11. Curriculum structure</b>                                                 |                                        |
| Article 11.1 Academic development                                               | 7.13 paragraph 2 sub a                 |
| Article 11.2 Major                                                              | 7.13 paragraph 2 sub a                 |
| Article 11.3 Compulsory units of education of the major                         | 7.13 paragraph 2 sub a                 |
| Article 11.4 Elective units of education of the major                           | 7.13 paragraph 2 sub a                 |
| Article 11.5 Practical exercise                                                 | 7.13 paragraph 2 sub d                 |
| Article 11.6 Participation in practical exercises and tutorials                 | 7.13 paragraph 2 sub d                 |
| <b>12. Electives</b>                                                            |                                        |
| Article 12.1 Elective period                                                    | 7.13 paragraph 2 sub a                 |

|                                                                    |                         |
|--------------------------------------------------------------------|-------------------------|
| Article 12.2 Minors                                                | 7.13 paragraph 2 sub a  |
| <b>13. Honours programme</b>                                       |                         |
| Article 13.1 Honours components                                    | 7.13 paragraph 2 sub a  |
| <b>14. Binding recommendation on continuation of studies (BSA)</b> |                         |
| Article 14.1 Binding (negative) recommendation                     | 7.13 paragraph 2 sub f  |
| <b>15. Evaluation and transitional provisions</b>                  |                         |
| Article 15.1 Evaluation of the education                           | 7.13 paragraph 2 sub a1 |
| Article 15.2 Transitional provisions                               | 7.13 paragraph 2 sub a  |

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

(English below)

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

### Afkortingen:

FGV: Facultaire Gezamenlijke Vergadering

OplC: Opleidingscommissie

I: Instemmingsrecht

A: Adviesrecht

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

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

### Abbreviations used:

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

### Appendix III Ordinances VU Executive Board (CvB) and Binding Bachelor's Guidelines (Bachelor-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        | Fixed nr of EC                                                                                                                | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 2.2.1               | Setup of the programme                                                                                                        | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 2.2.2, 2.2.3        | Planning academic year (number of contact hours)                                                                              | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 2.2.4               | Internationalization                                                                                                          | CvB ordinance, following the advice of the Internationalization Board, in December 2008 and included in the IP                                                         |
| 3.1.1, 3.1.2        | Signing up for education and interim examinations                                                                             | CvB ordinance 30-09-2010, prior consent USR                                                                                                                            |
| 3.4.1               | Determination and publication of the results<br>(1) Grading deadline exams ten working days<br>(2) Theses twenty working days | (1) Bachelor-richtlijn, revised on 6 June 2017<br>(2) Quality demand 11 from the VU-wide assessment policy, CvB ordinance 15-05-2012                                   |
| 3.5.1               | Two possibilities to take examinations                                                                                        | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 3.5.2               | Resit:<br>Most recent grade is valid<br>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 O&O committee and adopted by CvB on 28-10-2015                                                            |
| 3.6                 | Grades                                                                                                                        | CvB ordinance 30-09-2010, with University council's consent. As a result of harmonization UvA, the guideline: 5.5 is a pass, has been added. CvB ordinance 24-02-2014. |
| 4.1                 | Honours programme                                                                                                             | Joint CvB ordinance UvA-VU, 28-10-2013<br>Revised 'Regeling VU-UvA Honoursprogramma' on 27-11-2018                                                                     |
| 5.2.1               | Recommendation on continuation of studies (BSA) end of first year                                                             | BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017<br>Kaderregeling revised on 12-09-2017                                                        |
| 5.2.2               | Formal warning before February 1st                                                                                            | BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017<br>Kaderregeling revised on 12-09-2017                                                        |
| 5.3                 | Binding (negative) study advice                                                                                               | BSA kaderregeling ordinance CvB 18-01-2010, consent USR on OER 2016-2017<br>Kaderregeling revised on 12-09-2017                                                        |
| 8.1.3               | Application and Registration Regulation (RAI)                                                                                 | CvB ordinance 8-10-2019 (annually)                                                                                                                                     |
| 10.4.2              | 'Gedragcode vreemde taal'<br>(Code of conduct for foreign languages)                                                          | CvB ordinance 20-07-2009                                                                                                                                               |
| 11.1.1              | Academic development                                                                                                          | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 11.2                | Major                                                                                                                         | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 12.1                | Elective period (first semester, third year)                                                                                  | Bachelor-richtlijn, revised on 6 June 2017                                                                                                                             |
| 12.2.1              | Participation in university minor                                                                                             | CvB ordinance Profileringsruimte 22-11-2010                                                                                                                            |

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

*(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  
Entered into force on 1 June 2018

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

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

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

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

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

## Appendix V Addendum Teaching and Examination Regulations Bachelor's degree programmes

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

### Addendum pertaining to the 2022-2023 Teaching and Examination Regulations

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

##### Article 8.1 Additional prior education requirements

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Supplementary to paragraph 5, students from institutes of higher professional education (HBO) who are preparing for the first-year examination will be admitted to the Bachelor's programme, provided that:</p> <ul style="list-style-type: none"> <li>• The student can provide a positive advisory on completion from his/her HBO institution, which must be provided to Vrije Universiteit Amsterdam (VU) by no later than 1 August 2022.</li> <li>• The student must still pass no more than one teaching unit of the first year of HBO, or in the case that more than one teaching unit must still be passed, these must be worth no more than 6 EC credits.</li> </ul> <p>If the student has not passed the first-year examination of an HBO Bachelor's programme at the latest by 31 December 2022, the student's registration for a Bachelor's programme at Vrije Universiteit Amsterdam will be terminated.</p> | <p>Based on additional Section 7:37e WHW</p> <p>University Student Council's advice on policy (9:33a WHW, second paragraph)</p> <p>Advice of the OLC on each programme via the Teaching and Examination Regulations</p> |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|