

# Education and Examination Regulations

2025-2026

Bachelor Chemistry

**Radboud Universiteit**



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# PART I GENERAL PROVISIONS BACHELOR

## SECTION 1. GENERAL PROVISIONS

### ARTICLE 1.1 APPLICABILITY OF THE REGULATIONS

1. These Education and Examination Regulations (hereinafter: EER) apply to the Bachelor's programmes (the study programme in which the student is enrolled, is hereinafter referred to as: the study programme), including all associated educational units, of the Faculty of Science. These regulations outline the applicable procedures, rights and obligations for teaching, interim examinations and final examinations.
2. The present regulations apply to all students enrolled in the study programme in the 2025-2026 academic year. Students who enrolled in the study programme before 1 September 2016 and have been continuously enrolled in this study programme may appeal to the regulations that were active at the time of their initial enrolment in the study programme.
3. Educational units that are included in the programme-specific part of these regulations as part of the study programme are subject to the rules outlined in these regulations. Educational units offered by the Faculty of Science are always subject to the regulations included in at least one of the EERs of the Faculty of Science.
4. The Faculty offers the following 180 EC Bachelor's programmes:
  - a. Biology
  - b. Chemistry
  - c. Computing Science
  - d. Molecular Life Sciences
  - e. Physics and Astronomy
  - f. Science
  - g. Mathematics
5. The study programmes are offered exclusively as full-time programmes.

### ARTICLE 1.2 EXECUTIVE BOARD GUIDELINES

1. In view of the organisation and coordination of the provisions in these regulations, the Executive Board has established the following guideline and regulations. The guideline and regulations can be found in the appendix:
  - a. Appendix 1: Guideline for Awarding Distinctions
  - b. Appendix 2: Fraud Regulations
  - c. Appendix 3: First Year Study Advice Guideline and Regulations

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## ARTICLE 1.3 DEFINITIONS

1. The terms used in these regulations that also appear in the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk onderzoek, hereinafter: 'the Act') have the same meaning as that assigned to them by the Act.
2. Apart from the terms referred to in paragraph 1, the terms below are understood to have the following meanings:
  - a. **Study programme:** the Bachelor's programme, as referred to in Article 7.3a, paragraph 1 of the Act.
  - b. **Educational unit:** a study programme is a coherent set of educational units; see Article 7.3, paragraphs 2 and 3 of the Act. In practice, an educational unit is also referred to as a 'course'.
  - c. **Student:** a person enrolled at Radboud University to take educational units and/or to take interim examinations and the final examination of a study programme.
  - d. **Academic year:** the period from 1 September in a given year until 31 August of the following year.
  - e. **Practical:** a practical exercise as referred to in Article 7.13, paragraph 2 under (d) of the Act.
  - f. **Course objective:** a general description of the knowledge, understanding and/or skills the student must possess after completing an educational unit.
  - g. **Interim examination:** an examination testing the knowledge, understanding or skills of the student in relation to a certain educational unit, as well as the assessment of the results of this examination, which is administered by at least one examiner designated by the Examination Board as referred to in Article 7.10, paragraph 1 of the Act.
  - h. **Partial examination:** an examination testing the knowledge, understanding or skills of the student in relation to a certain educational unit, which in conjunction with one or more other partial examinations constitute the interim examination. In these regulations, when the term 'interim examination' is used, this can also be read as 'partial examination', unless explicitly indicated otherwise.
  - i. **Resit:** an opportunity to retake an interim examination as referred to in Article 7.10, paragraph 1 of the Act. In these regulations, when the term 'interim examination' is used, this can also be read as 'resit', unless explicitly indicated otherwise.
  - j. **Bonus scheme:** bonus for additional efforts that can be awarded above and beyond the final grade.
  - k. **Final examination:** an assessment, on the basis of which the Examination Board determines whether the Bachelor's examination, as defined in the programme-specific part of these regulations, has been completed successfully.
  - l. **Final project:** the final project is an academic proof of competence in the specific field of study of the study programme.
  - m. **Fraud:** any behaviour or negligence on the part of the student that, by its nature, is directed toward making it partly or entirely impossible to properly assess the knowledge, understanding and skills of the student or of another student.
  - n. **Examination Board:** the examination board of a study programme, established in accordance with Article 7.12 of the Act. See also the Radboud University Structure Regulations.

- o. **Examiner:** the person designated by the Examination Board to administer the interim examinations, in accordance with Article 7.12c of the Act.
- p. **Distinction:** a distinction awarded by the Examination Board that indicates that a student has completed the study programme with exceptional success. There are two distinctions: cum laude and summa cum laude.
- q. **EC:** European Credits, i.e. the study load unit in accordance with the European Credit Transfer System.
- r. **Working day:** Mondays to Fridays, with the exception of official holidays and any other days designated by Radboud University as collective holidays.
- s. **Course catalogue:** catalogue listing the educational units and minors associated with the study programmes. The catalogue provides programme-specific information about all Radboud University study programmes.
- t. **University:** Radboud University.
- u. **Faculty:** the Faculty of Science of Radboud University.
- v. **Education Institute:** the organisational unit responsible for the study programme.
- w. **Programme Director:** person responsible for managing the study programme. In these regulations, where the term 'programme director' is used, this can also be read as 'programme coordinator'.
- x. **Minor:** a cohesive selection of educational units that can be chosen from the options offered by the study programme.
- y. **Free elective:** a freely-selected, academic, assessable educational unit chosen from the options offered within the study programme.
- z. **Dual Bachelor's programme:** an excellence programme integrating two study programmes, which allows students to substitute mandatory educational units of one Bachelor's programme with educational units from the other Bachelor's previously specified in the EER.
- aa. **Rules and Regulations:** regulations in which the Examination Board sets out how it works in accordance with these regulations.

# PART II GENERAL PART

## SECTION 2. ADMISSION TO THE STUDY PROGRAMME AND EDUCATION

### ARTICLE 2.1 ADMISSION AND ADMISSION REQUIREMENTS

1. To be admitted to the study programme, students must meet the prior education requirements set out by or pursuant to the Act.
2. The Admissions Office decides on admission on behalf of the Dean.
3. The general admission requirements are included in the [Registration Regulations for the 2025-2026 academic year](#). The programme-specific part of these regulations lists the programme-specific admission requirements.

### ARTICLE 2.2 SUBSTITUTE REQUIREMENTS FOR INSUFFICIENT PRIOR EDUCATION

Students who are in possession of a VWO qualification that does not meet the prior education requirements referred to in Article 2.1 may still enrol, provided an investigation shows that they meet the requirements regarding content, in accordance with Article 7.25 paragraph 5 of the Act. The assessment procedure and the requirements are specified in the programme-specific part of these regulations.

### ARTICLE 2.3 LANGUAGE REQUIREMENTS

1. The Faculty offers study programmes in Dutch or in English. A Dutch-taught study programme may include English-taught educational units. The language of instruction of the study programme is specified in the programme-specific part of these regulations.
2. To participate in a Dutch-taught study programme, the student must be able to provide proof of sufficient Dutch language proficiency. Qualifications and certificates that meet the Dutch language requirements can be found on the [website of Radboud University](#).
3. To participate in an English-taught study programme, the student must be able to provide proof of sufficient English language proficiency. Qualifications and certificates that meet the English language requirements can be found on the [website of Radboud University](#).
  - a. For the following certificates, the test results listed below are required:
    - TOEFL IBT, score  $\geq 90$  + sub-score  $\geq 20$
    - IELTS Academic, score  $\geq 6.5$  + sub-score  $\geq 6.0$
    - Cambridge Certificate C1 Advanced: general minimum score 176, minimum component score 169
    - Cambridge Certificate C2 Proficiency: general minimum score 180, minimum component score 169
4. A student who does not meet the requirements described above but can otherwise demonstrate sufficient language proficiency may submit a request for exemption from the language requirement to the Admissions Office, which will decide on the matter on behalf of the Dean.

## SECTION 3. STRUCTURE AND DESIGN

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### ARTICLE 3.1 FINAL EXAMINATION, DEGREE AND DISTINCTIONS

1. All Bachelor's programmes are concluded with a Bachelor's examination.
2. Students who pass the Bachelor's examination of the study programme will be awarded a Bachelor of Science (BSc) degree.
3. The Bachelor's examination is considered to have been successfully completed if a valid and satisfactory interim examination result has been obtained for all compulsory educational units, supplemented by elective educational units, as specified in the programme-specific part of these regulations. The Examination Board may conduct an additional investigation into the knowledge, understanding and skills of the candidate (see Article 7.10, paragraphs 1 and 2 of the Act).
4. The degree referred to in paragraph 2 is awarded exclusively if the student has earned at least half of the EC required for their study programme at this University.
5. The Examination Board can award distinctions to students who have successfully passed the final examination of the study programme. The rules for awarding distinctions can be found in the Guideline for Awarding Distinctions in the appendix.

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### ARTICLE 3.2 GENERAL LEARNING OUTCOMES

1. The study programme has the following learning outcomes for students:
  - a. Acquire knowledge, understanding and skills in the relevant field of study
  - b. Develop academic competences
  - c. Prepare for further study or a future career
2. Students who have been awarded a degree for one of the Faculty's Bachelor's programmes, as referred to in Article 7.10a paragraph 1 of the Act, shall be granted unconditional admission to at least one of the Faculty's Master's programmes.

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### ARTICLE 3.3 CURRICULUM

1. The programme-specific part of these regulations lists and describes all of the educational units that jointly comprise the study programme.
2. For each educational unit, the Programme Director is responsible for ensuring that the following information is included in the course catalogue for the academic year corresponding to these regulations prior to the adoption of these regulations:
  - a. a description of the educational unit
  - b. the course objectives
  - c. any admission requirements
  - d. the manner in which interim examinations are administered
  - e. how the results of an interim examination are determined, taking into account the weighting of any partial examinations
  - f. scheduling of partial or interim examinations
  - g. if relevant, the limited validity of partial examinations
  - h. any capacity restrictions
  - i. the potential awarding of a bonus point

3. Contrary to the provisions of Article 3.3, paragraph 2, the information from Article 3.3, paragraph 2 under (a), (c), (e), and (f) of the educational units that are completed in the third and fourth periods may still be amended by the Programme Director up until the start of the second period.
4. Students can register for an educational unit up until 11:59 p.m. on the day prior to a period of four weeks before the start of the period in which the educational unit starts. For educational units in the first period, students can register until the end of the first week of teaching.
5. For educational units with a capacity restriction as referred to in Article 3.3, paragraph 2 under (h), if the number of enrolments exceeds capacity, the following procedure will be followed: participants will be admitted in order of enrolment. Students who cannot be admitted due to capacity restrictions will also be placed on a waiting list in order of enrolment. Notwithstanding the above provisions, the Programme Director can decide otherwise; the procedure that applies in that case must be included in the course catalogue for the academic year corresponding to these regulations prior to the adoption of these regulations. A capacity restriction may not apply to students for whom the educational unit is compulsory.
6. If students are granted admission to an educational unit, they are admitted to all components of the unit in question, including the interim examination.
7. Some modes of instruction have attendance/participation requirements. Attendance or participation can only be made compulsory if attendance is required to meet one or more of the course objectives. The attendance/participation requirement must be listed in the course catalogue under the relevant educational unit.
8. The educational units of the nominal space of the study programme may not have any substantial substantive overlap.
9. The study programme includes a free elective space with a minimal study load of 6 EC.
10. Every study programme has a minor educational space of at least 15 EC in which students can take one or more minors.
11. If a minor is not accessible to students of a specific study programme, this is specified in the programme-specific part of these regulations.
12. The minors offered by the University are listed in the course catalogue. If a student wishes to take a minor that is not regularly offered by the University, they must apply for approval from the Examination Board. This minor is then labelled a 'free minor' and must meet the following requirements:
  - a. The minor encompasses at least 15 EC and at most 30 EC.
  - b. The minor is of academic Bachelor's level and is thematically coherent.
13. The study programme includes one or more educational units of a philosophical nature with a minimum study load of 3 EC.
14. The study programme includes a writing skills component with a study load of 3 EC. This component can be a stand-alone educational unit or integrated into subject-specific educational units. In the latter case, assessment must take the form of one or more partial examinations.
15. The study programme includes an educational unit with a study load of 3 EC for the purpose of reflecting on study progress and planning, as well as promoting the development of academic skills. This component can be a stand-alone educational unit or integrated into subject-specific educational units. In the latter case, assessment must take the form of one or more partial examinations.
16. During the first year of the study programme, students are required to take a compulsory RADAr language test. Students who have already taken the test in the language of the study programme at Radboud University are exempted from this requirement. Passing the test is not required. A resit for the test is possible.

17. The study programme includes an individual final project with a study load of 12 EC. The programme-specific part of these regulations lists the partial or interim examinations that together represent the final project.
18. In addition to the provisions of paragraph 17, the final project can be expanded. In all cases in which expansion is possible, this will be indicated in the programme-specific part of these regulations.
19. If the final project includes an internship, this must be approved beforehand by the study programme. If a student is enrolled in two Bachelor's programmes and is granted an exemption for the final project of one of the study programmes, approval is required from both study programmes.
20. The student must present their compiled Bachelor's programme to the Examination Board for approval no later than three months before the expected final examination date. The Examination Board will reach a decision within 20 working days of receiving the submitted programme.
21. A bonus can be granted for an extra effort, with the understanding that the final grade can never be higher than a 10 and it is also possible to be awarded a 10 without a bonus. The bonus is maximum 1 point.
22. Extracurricular educational units are allowed if, in the opinion of the Examination Board, the course is testable at an academic level.
23. If a student chooses educational units within the programme that result in a total study load exceeding 180 EC, the excess educational units will be classified as extracurricular. This does not apply if the study load of such an educational unit would have to be split up. Extracurricular educational units do not count towards the determination of the distinction.
24. If a student can choose different educational units within the curriculum, and the student has passed more than one of these educational units, the student can decide which educational units will count toward their distinction if one or more of the educational units are extracurricular.
25. The two dual Bachelor's programmes on offer are: 'Mathematics, Physics and Astronomy' and 'Mathematics and Computing Science'.

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#### ARTICLE 3.4 SEQUENCE OF EDUCATION AND INTERIM EXAMINATIONS

1. Students may not start work on the final project before completing at least 120 EC of the programme, including all educational units of the first year.
2. The programme-specific part of these regulations may contain further requirements for the order in which educational units and the accompanying interim examinations may be taken.

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#### ARTICLE 3.5 TYPES OF INTERIM EXAMINATIONS

1. Educational units are concluded by an interim examination. Interim examinations may comprise several partial examinations. Only partial examinations and interim examinations can be used to determine a final grade. On top of this, a bonus scheme may be applied, as referred to in Article 3.3, paragraph 21.
2. Partial examinations and interim examinations may consist of the following assessment forms:
  - a. Written test and/or
  - b. Oral test and/or
  - c. Presentation and/or
  - d. Skills test and/or
  - e. The creation of a discipline-specific product and/or text.

3. Contrary to the provisions of Article 3.3, paragraph 2 under (d) and at the request of the student or the examiner, the Examination Board may allow an interim examination to be taken in an alternative form, if this is not to the detriment of the student.
4. The course materials offered provide the student with insight into the manner in which, as well as the form in which the learning objectives will be assessed.
5. For partial and interim examinations as referred to in paragraph 2 under (a), information concerning the format of the partial or interim examination will be provided no later than 10 working days before the day on which the partial or interim examination concerned is administered. In this context, the following must be specified:
  - a. The type of questions: open and/or closed questions
  - b. Permitted aids and resources
  - c. Application of methods whereby points are deducted, such as 'guess correction'
6. For partial and interim examinations as referred to in paragraph 2, under (c), (d), and (e), the assessment criteria must be made available with the assignment, or otherwise communicated to the student.
7. Students with functional impairments have the opportunity to take interim examinations in a manner appropriately suited to their impairment. The Examination Board shall, if necessary, seek expert advice prior to reaching a decision on the matter. If a student requires certain facilities for their interim examinations, they must request these from the Education and Examination Administration of the Faculty no later than two weeks before the interim examination.
8. During oral examinations, no more than one person is tested at a time, unless the Examination Board decides otherwise.
9. Oral examinations are not public, unless the Examination Board has deemed otherwise in exceptional cases. Oral examinations are recorded, or a second examiner or designated observer is present.

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#### ARTICLE 3.6 EXEMPTIONS

1. At the request of the student and having heard the examiner involved, the Examination Board may exempt the student, either partially or fully, from sitting for an interim examination if the student:
  - a. Has completed an educational unit at a research university or university of applied sciences (HBO) that is equivalent in content and level, or
  - b. Demonstrates that they have adequate knowledge and skills regarding the educational unit in question as a result of relevant work or professional experience.
2. Any generic exemptions in the study programme are included in the programme-specific part of these regulations.
3. A course can only be registered with a grade on the diploma for one study programme. If a course is also part of another examination programme, this course will be listed as an exemption on one of the two diplomas.
4. For students who first enrolled on or after 1 September 2017, the number of exemptions as referred to in paragraph 1 may not exceed a total of 70 EC.
5. All results achieved before the date of initial enrolment for a study programme are listed as exemptions on the diploma for that study programme. These exemptions do not count towards the 70 EC referred to in paragraph 4 if the courses are only included in one examination programme.
6. A student enrolled in two Bachelor's programmes at the Faculty may be granted an exemption for the final project of one of the two study programmes. In that case, the final project must meet the requirements of both study programmes.

7. If, after completing two Bachelor's programmes, a student wishes to distribute the exemptions in accordance with paragraphs 2 and 3 across the two diplomas, they must submit an examination application for both study programmes at the same time.

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#### ARTICLE 3.7 TERM OF VALIDITY FOR SUCCESSFULLY COMPLETED INTERIM EXAMINATIONS

1. Successfully completed interim examinations are valid indefinitely.
2. Successfully completed partial examinations are valid indefinitely, unless specified otherwise in the course catalogue (see Article 3.3, paragraph 2, under (g)), but at least until the end of the academic year in which they were completed.
3. A successfully passed interim examination may be taken again. If a student resits an interim examination, in derogation from paragraph 1, the last result obtained always applies.

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#### ARTICLE 3.8 ELECTIVE PROGRAMMES

The Examination Board of the study programme decides about requests for authorisation to follow an elective programme as referred to in Article 7.3j of the Act. The Examination Board verifies whether the elective programme fits within the domain of the study programme, whether it is sufficiently cohesive, and whether the level is adequate in the context of the study programme's learning outcomes. Further requirements to this end may be set out in the programme-specific part of these regulations.

### SECTION 4. ASSESSMENT

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#### ARTICLE 4.1 FREQUENCY OF INTERIM EXAMINATIONS

1. For each educational unit, there are at least two interim examination opportunities per academic year.
2. Notwithstanding paragraph 1, there may in some cases only be one opportunity to take an interim examination or partial examination. The Programme Director is responsible for ensuring that this is included in the course catalogue for the academic year corresponding to these regulations prior to the adoption of these regulations.
3. Notwithstanding paragraph 1, if an educational unit is offered for the last time in a particular academic year, there will be at least one other opportunity to take an interim examination for this educational unit in the following academic year.
4. If an educational unit is not offered in a particular academic year, the opportunity to take the corresponding interim examination will be offered once in that academic year, as long as the interim examination is administered in written or oral form.

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#### ARTICLE 4.2 REGISTRATION FOR INTERIM EXAMINATIONS

1. Students can register for an interim examination up until 11:59 p.m. on the day prior to a period of five working days before the date of the interim examination. Registration is not possible after this, unless the head of the Education Centre decides otherwise in exceptional cases and on behalf of the Dean.

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#### ARTICLE 4.3 DETERMINATION OF INTERIM EXAMINATION RESULTS

1. The examiner determines the result of an interim examination on one of the following result scales:
  - a. A grade on a scale from 1 (lowest possible grade) to 10 (the highest possible grade), whereby only the following final grades can be awarded: 1, 1.5, 2, 2.5, 3, 3.5, 4, 4.5, 5, 6, 6.5, 7, 7.5, 8, 8.5, 9, 9.5, 10. A final grade of 6 or higher means that the educational unit has been successfully completed (pass). Grades that are not one of the permitted final grades must be rounded to the nearest permitted final grade. A grade that falls exactly between two permitted final grades must be rounded up.
  - b. A non-numerical result from the following list: 'pass' (voldaan, VD), 'fail' (niet voldaan, NVD), 'satisfactory' (voldoende, VLD), 'unsatisfactory' (onvoldoende, ONV), 'good' (goed, G), 'participated' (deelgenomen, D) and 'did not participate' (niet deelgenomen, ND), whereby a result of 'VD', 'VLD', 'G' or 'D' means that the educational unit has been successfully completed.
2. Notwithstanding the provisions of paragraph 1 under (a), partial examinations may also be graded to one decimal point on a scale of 1 to 10.

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#### ARTICLE 4.4. PUBLICATION OF INTERIM EXAMINATION RESULTS

1. The examiner determines the result of an interim examination within the following time frame:
  - a. For the first year of the study programme: within 10 working days after the date on which the interim examination was administered.
  - b. For the remaining years of the study programme: within 15 working days after the date on which the interim examination was administered.

Here, the precondition applies that there must be at least 10 working days between the date of the publication of the result in OSIRIS and the date of the resit.

2. Notwithstanding paragraph 1, for interim examinations in the fourth period, the examiner shall determine the results of the examination no later than nine days before the date of the resit. The period between the interim examination and the resit is always at least 14 working days. This gives the examiner five working days to establish the result.
3. Contrary to the provisions of paragraph 1, the examiner shall determine the result of an oral examination within a maximum of five working days of the date it was administered, such that the student is given the opportunity to graduate in the current academic year.
4. In exceptional cases, the Examination Board may extend the term in which the result must be determined as referred to in paragraphs 1 and 2 by a maximum of 10 working days. This is not possible for interim examinations in the second period of the first year and for interim examinations in the fourth period. The lecturer will inform students of this extension.
5. The examiner determines the result of the final project within 15 working days after all products and assessments have been completed and submitted according to the method specified in the course catalogue.
6. In the statement concerning the result of an interim examination, the student is also informed of their right to inspection, as referred to in Article 4.5, as well as the right to appeal to the Examination Appeals Board.
7. Students may appeal an interim examination result to the Examination Appeals Board within six weeks after the date of publication of the examination result in question.

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#### ARTICLE 4.5 RIGHT OF INSPECTION AND REVIEW

1. Students are given the opportunity to view their graded work within 30 working days of the publication of the results of a written interim examination. The student can submit a request to this end to the examiner. The student may upon request also be provided with a copy of their graded work where 'open' questions are concerned. The inspection must take place at least five working days before the resit. For interim examinations in the fourth period, this is possible until one working day before the resit.
2. During the period referred to in paragraph 1, any student who has taken an interim examination may review the questions and assignments of the interim examination in question, as well as the standards on which the assessment was based.
3. If the student demonstrates that they are or were unable to attend an inspection due to circumstances outside their control, they may ask the Examination Board to allow them another opportunity to inspect the examination, if possible within the period referred to in paragraph 1.
4. The retention period for partial and interim examinations is:
  - Written partial and interim examinations on paper: two years (retained by the examiner)
  - Digital written partial and interim examinations: two years (retained in the assessment software)
  - Final project: seven years (retained in OSIRIS)

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#### ARTICLE 4.6 DETERMINATION OF FINAL EXAMINATION RESULTS

1. Students are given the opportunity to take the final examination once they have successfully completed all educational units, as described in Article 3.3, paragraph 20.
2. There is at least one final examination date every month.
3. The Examination Board will determine the result of the final examination, as well as the rules for the manner in which the result of the examination is determined. The result is determined within five weeks following the application. If the final examination takes place in July, the results will be determined no later than 31 August. Where needed due to entry requirements for a subsequent study programme or the acceptance of a job, a statement can be released within five working days indicating that the student has met the requirements of the final examination. This is only possible if the student has met the requirement specified in paragraph 1.
4. Before the Examination Board determines the result of the final examination, they may evaluate and assess the student's knowledge on one or more educational units or aspects of the study programme, if and to the degree to which this is justified by the results of the relevant interim examinations.

### SECTION 5. STUDY PROGRESS, ACADEMIC COUNSELLING, STUDY ADVICE AND EVALUATION OF EDUCATION

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#### ARTICLE 5.1 STUDY PROGRESS AND ACADEMIC COUNSELLING

1. The Dean is responsible for recording study results in such a way that the Education and Examination Administration can, upon request, and within a reasonable time period, provide every student with an overview of their study results up to that moment.
2. The Dean is responsible for providing adequate academic counselling.

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#### ARTICLE 5.2 STUDY ADVICE

1. For the first-year study advice, the reader is referred to Appendix 3: 'First Year Study Advice Guideline and Regulations'.
2. Under reference to Appendix 3, Article 8, paragraph 4, students who are issued a negative binding study advice for Bachelor's programmes in Chemistry, Molecular Life Sciences or Science may not re-enrol for any of these three study programmes for a period of three years.

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#### ARTICLE 5.3 METHOD OF EVALUATING EDUCATION

In compliance with the quality assurance system of the University as described in the Radboud University Quality Assurance Manual, the Dean shall ensure that the education of the study programmes is evaluated systematically.

# PART III PROGRAMME-SPECIFIC PART

## SECTION 6. ADMISSION TO THE STUDY PROGRAMME AND EDUCATION

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### ARTICLE 6.1 PRIOR EDUCATION REQUIREMENTS

The study programme is open to candidates who are in possession of:

1. A pre-university education (VWO) qualification including English, Physics, Chemistry and Mathematics B, or
2. A related university of applied sciences (HBO) Bachelor's qualification or comparable university of applied sciences qualification

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### ARTICLE 6.2 SUBSTITUTE REQUIREMENTS FOR INADEQUATE PRIOR EDUCATION

1. Deficiencies in prior education, as referred to in the general part of this EER, can be remedied by means of a test at the level of the VWO final examinations, to be determined in more detail, to the satisfaction of the education institute: English, Physics, Chemistry, and Mathematics B.
2. The education institute appoints one or more examiners responsible for administering the test(s) referred to in paragraph 1. Examiners are appointed by the Examination Board.

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### ARTICLE 6.3 COLLOQUIUM DOCTUM

The entrance examination, as referred to in Article 7.29 of the Higher Education and Research Act (WHW), concerns the courses and level referred to in article 6.1.

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### ARTICLE 6.4 HBO FIRST YEAR

Admission on the basis of an HBO first-year certificate is only permitted if the student has obtained VWO-level or equivalent certificates in English, Physics, Chemistry and Mathematics B.

## ARTICLE 7.1 PROGRAMME-SPECIFIC LEARNING OUTCOMES

In addition to the general learning outcomes described in the general part of this EER, the study programme in Chemistry aims to train students so that by the time they graduate they are competent in the following aspects:

*Knowledge and understanding*

- Major aspects of chemical terminology, nomenclature, conventions, and units
- The major types of chemical reactions and the main characteristics associated with them
- The principles and procedures used in chemical analysis and the characterisation of chemical compounds
- The principal techniques of structural investigations, including spectroscopy
- The characteristics of the different states of matter and the theories used to describe them
- The principles of thermodynamics and their applications to chemistry
- The principles of quantum mechanics and their application to the description of the structure and properties of atoms and molecules
- The kinetics of chemical change, including catalysis, and the mechanistic interpretation of chemical reactions
- The characteristic properties of elements and their compounds, including group relationships and trends within the Periodic Table
- The structural features of chemical elements and their compounds, including stereochemistry
- The properties of aliphatic, aromatic, heterocyclic and organometallic compounds
- The nature and behaviour of functional groups in organic molecules
- Major synthetic pathways in organic chemistry, involving functional group interconversions and carbon-carbon and carbon-heteroatom bond formation
- The relation between bulk properties and the properties of individual atoms and molecules, including macromolecules (both natural and man-made), polymers and other related materials
- The structure and reactivity of important classes of biomolecules and the chemistry of important biological processes

*Applying knowledge and understanding*

- The capacity to apply knowledge in practice, in particular problem-solving competences, relating to both qualitative and quantitative information
- Numeracy and calculation skills, including such aspects as error analysis, order-of-magnitude estimations, and correct use of units
- Information management competences, in relation to primary and secondary information sources, including information retrieval through online computer searches
- Information technology skills, such as word-processing and spreadsheet use, data logging and storage, subject-related internet use
- Skills in planning and time management

#### *Making judgements*

- The ability to analyse material and synthesise concepts
- The ability to include aspects of safety and environment, ethical, societal and economic consequences of chemical, biochemical and technological changes in the design of products
- The capacity to adapt to new situations and make decisions

#### *Communication*

- Interpersonal skills, relating to the ability to interact with other people and engage in teamwork
- Communication competences, covering both written and oral communication, in one of the major European languages (English, German, Italian, French, Spanish)

#### *Lifelong learning skills*

- Study competences needed for continuing professional development. These should include in particular the ability to work autonomously.
- Ethical commitment

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#### ARTICLE 7.2 LANGUAGE OF THE STUDY PROGRAMME

The study programme is taught in English. Some of the elective courses are taught in Dutch. The course catalogue details which language individual courses are taught in.

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## ARTICLE 7.3 COMPOSITION OF THE FIRST YEAR

Subject to the provisions of the general part of this EER, the first year of the study programme consists of the following educational units:

### 1. MANDATORY EDUCATIONAL UNITS (60 EC)

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Course code	Course name	EC
NWI-MOL120	Structure of Atoms and Molecules	3
NWI-MOL121	Chemical Analysis 1	3
NWI-MOL122	Chemical Analysis 2	3
NWI-MOL123	Chemical Analysis Lab	3
NWI-MOL124	Organic Chemistry 1	6
NWI-MOL125	Synthesis Lab 1a	3
NWI-MOL126	Synthesis Lab 1b	3
NWI-MOL127	Biochemistry	6
NWI-MOL128	Essentials of Biochemistry Lab	3
NWI-MOL003	Mechanics 1	3
NWI-MOL014	Electricity & Magnetism 1	3
NWI-MOL131	Mathematics	9
NWI-MOL135	Thermodynamics	3
NWI-MOL136	Physical Concepts of Chemical Processes	3
NWI-MOL139	Sustainable Chemistry	3
NWI-MOL140	Molecular Sciences Lab	3
NWI-MOL0861	Academic Skills first year*	0

\* NWI-MOL0861 Academic Skills first year is part of the NWI-MOL086 Academic Skills (3 EC) course, which is followed throughout the Bachelor's. NWI-MOL0861 Academic Skills (0 EC) includes the mandatory educational units of year 1, including the midterm progress test, writing skills, and reflection on the RADAR language test.

### 2. SUBSTITUTE FIRST-YEAR PROGRAMME

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The first-year programme in Molecular Life Sciences or Science of Radboud University may also be used as the first-year programme for the present study programme, provided the ultimate Bachelor's programme in Chemistry includes at least the following courses: NWI-MOL122 Chemical Analysis 2, NWI-MOL136 Physical Concepts of Chemical Processes, NWI-MOL139 Sustainable Chemistry and NWI-MOL126 Synthesis Lab 1b.

If a student enrolled during or before the 2018-2019 academic year, the first-year programme of the Molecular Life Sciences study programme may also be used as a replacement for the first-year programme. The same provision applies to the Science study programme, provided it includes NWI-MOL005 or NWI-MOL006 Reactions and Kinetics Project, or provided this project is included in the elective space of the study programme.

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 ARTICLE 7.4 COMPOSITION OF THE SECOND AND THIRD YEARS OF THE STUDY PROGRAMME
 

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 1. MANDATORY EDUCATIONAL UNITS (66 EC)
 

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Course code	Course name	EC
NWI-MOL016	Linear Algebra	3
NWI-MOL032	Crystal structure	3
NWI-MOL040	Thermodynamics 2	3
NWI-MOL045	Microscopic Techniques	3
NWI-MOL056	Chemical bonding	3
NWI-MOL150	DATA: Programming and statistics	6
NWI-MOL155	Quantum mechanics	6
NWI-MOL157	Physical Organic Chemistry	3
NWI-MOL160	Mechanics, Electricity, and Magnetism 2	6
NWI-MOL161	Organic Chemistry 2	3
NWI-MOL162	Inorganic Chemistry	3
NWI-MOL163	Synthesis Lab 2	6
NWI-MOL165	Biochemistry 2	3
NWI-MOL170 or NWI-MOL170A or NWI-MOL170B	Panorama Science and Society 1	6
NWI-MOL190	Academic Writing in the Molecular Sciences	3
NWI-MOL086	Academic Skills	3
NWI-FFIL100 or NWI-FFIL101	Introduction to Philosophy and Ethics (of Science)	3

 2. ELECTIVE EDUCATIONAL UNITS (36 EC)
 

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Within the elective educational units, at least 12 EC must be chosen from list BC1. Other educational units may be chosen from any of the Bachelor's programmes offered by the Faculty of Science. This elective space may include a minor as described in Article 3.3, paragraph 10 to 12. If the student selects this option, at least half of the remaining space should be filled with educational units from the BC1 list.

BC1 list: Elective courses within the Chemistry curriculum. Not all courses are taught every year.

Course code	Course name	EC
NWI-BB017C	Advanced Molecular Biology	6
NWI-MOL034	Condensed matter lab	3
NWI-MOL042	Data Analysis in Spectroscopies	3
NWI-MOL043	Bioinorganic Chemistry	3
NWI-MOL050	Condensed Matter	3
NWI-MOL051	Spectroscopy Project	3
NWI-MOL053	Pharmacochemistry	6
NWI-MOL054	Toxicology	6

Course code	Course name	EC
NWI-MOL059	Statistical Thermodynamics	6
or NWI-MOL0591 + optionally NWI-MOL0592	Statistical Thermodynamics 1 Statistical Thermodynamics 2	3 3
NWI-MOL064	Spectroscopy of Atoms and Molecules	3
NWI-MOL065	Chemometrics	6
NWI-MOL071	Crystal Growth	3
NWI-MOL087C	Synthesis Lab 3	6
NWI-MOL091	Sustainable Chemistry 2	3
NWI-MOL093	Stereoselective Synthesis	3
NWI-MOL094 or NWI-MOL171	Physical Organic Chemistry Physical Organic Chemistry 2	3 3
NWI-MOL095	Organic Chemistry	6
NWI-MOL096	Metal Organic Chemistry	3
NWI-MOL106	Applied Quantum Chemistry	3
NWI-MOL107	RNA Structure and Function	6
NWI-MOL108 or NWI-MOL058 or NWI-MOL110 or NWI-MOL057	Magnetic Resonance in Chemistry Introduction to Magnetic Resonance Applied Magnetic Resonance Magnetic Resonance I	3 3 3 6
NWI-MOL111	Biophysical Chemistry	3
NWI-MOL112 or NWI-MOL174 + optionally NWI-MOL176	Quantum Theoretical Chemistry Computational and Theoretical Chemistry 1 Computational and Theoretical Chemistry 2	3 3 3
NWI-MOL152 or NWI-MOL075	Data: Structural Bioinformatics Bioinformatics A	3 3
NWI-MOL169	Catalysis	3
NWI-MOL173	Chemical Biology Lab	3
NWI-MOL177	Polymer Chemistry	3
NWI-MOL178	Soft Matter	3
NWI-MOL179	Soft Matter Lab	3
RDA-OST-SK Or RDA-OMO	Orientation internship for Chemistry teacher training Orientation module for secondary school teacher training	3

The following courses are mutually exclusive due to overlapping content. Not all of these courses are taught in the same year. The same applies to other elective courses: no overlap in content is permitted.

Course code	Course name	EC
NWI-MOL050	Condensed Matter	3
NWI-NB072B	SdM: Vaste stoffysica	3
NWI-MOL041	Quantum Mechanics 1	3
NWI-MOL100	Spectroscopy of Biomolecules	3
NWI-MOL155	Quantum Mechanics	6
NWI-NB013C	Kwantummechanica 1	6
NWI-MOL065	Chemometrics	6
NWI-MOL109	Chemometrics for Molecular Life Sciences	6
NWI-MOL087(C)	Advanced Synthesis Lab (Synthesis Lab 3)	6
NWI-MOL087A/B	Synthesis Lab ((In)Organic)	3
NWI MOL162/NWI-MOL102	Inorganic Chemistry/Inorganic Chemistry 1	3
NWI-MOL172/ NWI-MOL105	Inorganic Chemistry in Biological Systems / Inorganic Biochemistry	3
NWI-MOL035	Chemistry and Society	3
NWI-MOL037	MLS and Society	3
NWI-MOL170 (A/B)	Panorama Science and Society 1	6
NWI-MOL151	Data: Techniques and Analysis	6
NWI-MOL042	Data Analysis in Spectroscopies	3
NWI-MOL151	Data: Techniques and Analysis	6
NWI-MOL045	Microscopic Techniques	3

### 3. FREE ELECTIVES (6 EC)

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The study programme includes a free elective space of 6 EC, to be filled with assessable courses at academic level.

### 4. BACHELOR'S INTERNSHIP NWI-MOL200A (12 EC)

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This consists of theoretical and/or practical research and a report. The internship proposal must be submitted for approval to the internship coordinator in advance. Every year, the study programme publishes a list of approved internship departments in the course catalogue.

#### ARTICLE 7.5 DEFINITION OF FINAL PROJECT

The Bachelor's internship NWI-MOL200A counts as the final project for the Bachelor's programme as referred to in Article 1.3.2 paragraph I.

Students work on an academic research question under supervision. They produce an oral and written report of this research, which includes a description of the context of the research and a critical reflection on the results with regard to the rules surrounding academic integrity.

Assessment of the final project is based on the research (theoretical or practical), a written report, and an oral presentation.

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## ARTICLE 7.6 UNAUTHORISED MINORS

The following minors may not be used as part of the Chemistry examination programme:

1. Physical Organic Chemistry
2. Bio-organic chemistry
3. Sustainable chemistry

## SECTION 8. TRANSITIONAL PROVISIONS

For the following transitional provisions, the following applies: even where substitute educational units differ in size, the Bachelor's programme must always comprise 180 EC.

Students will, in some cases, need to include an additional elective or remove one elective from the programme.

The first-year NWI-MOL0861 Academic Skills First Year course is not mandatory for students who first enrolled before 2019.

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## ARTICLE 8.1 TRANSITIONAL PROVISIONS COHORT 2018-2019

This is the curriculum for students who enrolled in the study programme in the 2018-2019 academic year: Paragraph 8.1.3 provides a complete overview of the substitute educational units:

### 8.1.1 COMPOSITION OF THE FIRST YEAR (60 EC)

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Course code	Course name	EC
NWI-MOL001A	Chemical Analysis	3
NWI-MOL004	Mathematics 1	3
NWI-MOL005	Reactions and Kinetics Project	6
NWI-MOL007	Reactions and Kinetics	3
NWI-MOL008A	Biochemistry	6
NWI-MOL009A	Mathematics 2-3	6
NWI-MOL010	Biochemistry Project	6
NWI-MOL014	Electricity & Magnetism 1A	3
NWI-MOL017	Thermodynamics	3
NWI-MOL018	Thermodynamics Project	6
NWI-MOL019	Spectroscopic Techniques	3
NWI-MOL020	Environmental Chemistry and Sustainability	3
NWI-MOL079	Structure of Atoms and Molecules	3
NWI-MOL080	Molecular Structure	3
NWI-MOL003 OR NWI-MOL003B	Mechanics 1A Mechanica 1B	3 3

The first year of the Radboud University study programme Molecular Life Sciences and the first year of the Radboud University study programme in Science may also be used as the first year of the study programme provided it includes the Reactions and Kinetics project with a scope of at least 3 EC (NWI-MOL005/NWI-MOL006), or provided the Reactions and Kinetics project is included in the elective space of the second or third year.

## 8.1.2 COMPOSITION OF THE SECOND AND THIRD YEARS OF THE STUDY PROGRAMME

### 1. MANDATORY EDUCATIONAL UNITS (63-66 EC)

Course code	Course name	EC
NWI-MOL027	DNA Technology	3
NWI-MOL016	Linear Algebra	3
NWI-MOL040	Thermodynamics 2	3
NWI-MOL033	Programming in Matlab	3
NWI-MOL028	Statistics	3
NWI-MOL032	Crystal Structure	3
NWI-MOL012	Mechanics 2A	3
NWI-MOL041	Quantum Mechanics 1	3
NWI-MOL102	Inorganic Chemistry	3
NWI-MOL044	Inorganic Chemistry Lab	3
NWI-MOL046	Quantum Mechanics 2	3
NWI-MOL042	Fourier Analysis	3
NWI-MOL045	Microscopic Techniques	3
NWI-MOL047	Synthesis of Biomolecules	3
NWI-MOL056	Chemical Bonding	3
NWI-MOL086	Academic Skills	3
NWI-FCEM02B OR NWI-MOL190	Writing about Science (English or Dutch, at the student's discretion) Academic Writing in the Molecular Sciences	3 3
NWI-FFIL101 OR NWI-FFIL100	Introduction Philosophy and Ethics of Science	3
NWI-MOL025 and NWI-MOL050 OR NWI-BB017C	Electricity and Magnetism 2A Condensed Matter Biochemistry-Molecular Biology II	3 3 6
NWI-MOL048A OR NWI-MOL049A OR NWI-MOL034	Organic Chemistry Lab Chemical Biology Project Condensed matter lab	6 6 3

### 2. ELECTIVE EDUCATIONAL UNITS (36-39 EC)

Within the elective educational units, at least 15-18 EC should be selected from list BC1, such that the scope of 8.1.2.1 plus the scope of the educational units from list BC1 amount to at least 81 EC. Courses from list BC1 may also be selected under Article 7.4.2.

*BC1 list: Elective courses within the Chemistry curriculum*

Course code	Course name	EC
NWI-MOL029	Bioinformatics	3
NWI-MOL035	Chemistry and Society	3
NWI-MOL043	Bioinorganic Chemistry	3
NWI-MOL053	Pharmacology	6
NWI-MOL054	Toxicology	6
NWI-MOL059 OR NWI-MOL0591 + optionally NWI-MOL0592	Statistical Thermodynamics Statistical Thermodynamics 1 Statistical Thermodynamics 2	6 3 3
NWI-MOL064	Spectroscopy of Atoms and Molecules	3
NWI-MOL065	Chemometrics	6
NWI-MOL071	Crystal Growth	3

Course code	Course name	EC
NWI-MOL075	Bioinformatics A	3
NWI-MOL087A	Synthesis Lab (Organic Chemistry)	3
NWI-MOL087B	Synthesis Lab (Inorganic Chemistry)	3
NWI-MOL091	Green Chemistry	3
NWI-MOL093	Stereoselective Synthesis	3
NWI-MOL094	Physical Organic Chemistry	3
NWI-MOL095	Organic Chemistry	6
NWI-MOL096	Metalorganic Chemistry (if available)	3
NWI-MOL106	Applied Quantum Chemistry	3
NWI-MOL108	Magnetic Resonance in Chemistry	3
NWI-MOL110	Applied Magnetic Resonance	3
NWI-MOL111	Biophysical Chemistry	3
NWI-MOL050	Condensed Matter	3
NWI-BB017C	Biochemistry-Molecular Biology II	6
NWI-MOL048A	Organic Chemistry Lab	6
OR NWI-MOL049A	Chemical Biology Project	6
OR NWI-MOL034	Condensed matter lab	3

The remaining 21 EC should be filled with Bachelor's educational units from the Faculty of Science, at post-propaedeutic level (including the list above). On the understanding that the courses below are in any event mutually exclusive:

Course code	Course name	EC
NWI-MOL050	Condensed Matter	3
NWI-NB072B	SdM: Vaste stoffysica	3
NWI-MOL041	Quantum Mechanics 1	3
NWI-MOL100	Spectroscopy of Biomolecules	3
NWI-MOL155	Quantum Mechanics	6
NWI-NB013C	Kwantummechanica 1	6
NWI-MOL065	Chemometrics	6
NWI-MOL109	Chemometrics for Molecular Life Sciences	6
NWI-MOL087(C)	Advanced Synthesis Lab	6
NWI-MOL087A/B	Synthesis Lab ((In)Organic)	3
NWI MOL162/ NWI-MOL102	Inorganic Chemistry/Inorganic Chemistry 1	3
NWI-MOL172/ NWI-MOL105	Inorganic Chemistry in Biological Systems / Inorganic Biochemistry	3
NWI-MOL035	Chemistry and Society	3
NWI-MOL170	Panorama Science and Society 1	6

This elective space may also include a minor. If the student selects this option, at least half of the remaining space should be filled with educational units from the BC1 list above.

### 3. FREE ELECTIVES (6 EC)

The study programme includes a free elective space of 6 EC, to be filled with assessable courses at an academic level.

#### 4. BACHELOR'S INTERNSHIP NWI-MOL200/MOL200A (12 EC)

A final aptitude test (practical work and a report) with a study load of 12 EC. Every year, the study programme publishes a list of approved internship departments.

#### 8.1.3 SUBSTITUTE EDUCATIONAL UNITS FOR STUDENTS FROM THE 2018-2019 COHORT

The following mandatory courses in the programme for Chemistry, MLS or Science students who enrolled before 2019	Have been replaced by/can be replaced by:
NWI-MOL001A Chemical Analysis (3 EC) + 3 EC elective space	NWI-MOL121 Chemical Analysis 1 (3 EC) + NWI-MOL123 Chemical Analysis Lab (3 EC)
NWI-MOL004 Mathematics 1 (3 EC) + NWI-MOL009A Mathematics 2-3 (6 EC)	NWI-MOL131 Mathematics (9 EC)
NWI-MOL005 Reactions and Kinetics Project (6 EC)	NWI-MOL125 Organic Chemistry Lab 1a (3 EC) + NWI-MOL126 Organic Chemistry Lab 1b (3 EC)
NWI-MOL006 Reactions and Kinetics Project (3 EC)	NWI-MOL125 Organic Chemistry Lab 1a (3 EC)
NWI-MOL008A Biochemistry (6 EC)	NWI-MOL127 Biochemistry (6 EC)
NWI-MOL010 Biochemistry Project (6 EC) (MLS students)	NWI-MOL129 Biochemistry Lab (6 EC)
NWI-MOL010 Biochemistry Project (6 EC) (Chemistry students)	NWI-MOL128 Essentials of Biochemistry Lab (3 EC) + 3 EC elective
NWI-MOL017 Thermodynamics (3 EC)	NWI-MOL135 Thermodynamics (3 EC)
NWI-MOL018 Thermodynamics Project (6 EC)	NWI-MOL140 Molecular Sciences Lab (3 EC) + NWI-MOL136 Physical Concepts of Chemical Processes (3 EC)
NWI-MOL019 Spectroscopic Techniques (3 EC)	NWI-MOL122 Chemical Analysis 2 (3 EC)
NWI-MOL020 Environm. Chem. and Sustainability (3 EC)	NWI-MOL139 Sustainable Chemistry (3 EC)
NWI-MOL021 Cell Biophysics Project (6 EC)	NWI-MOL137 Cell Biophysics (6 EC)
NWI-MOL022 Aspects of Molecular Life Sciences (3 EC)	NWI-MOL139 Sustainable Chemistry (3 EC)
NWI-MOL024 Fourier Analysis and Mech. Waves (3 EC)	a 3 EC Physics elective
NWI-MOL079 Structure of Atoms and Molecules (3 EC)	NWI-MOL120 Structure of Atoms and Molecules (3 EC)
NWI-MOL089 Object Orientatie (3 EC) or NWI-IPC002 Language and Automata (3 EC)	a 3 EC Computing Science elective
NWI-MOL103B Panorama Science (6 EC)	NWI-MOL140 Molecular Sciences Lab (3 EC) + NWI-MOL136 Physical Concepts of Chemical Processes (3 EC)
NWI-MOL103B Panorama Science (6 EC)	OF NWI-MOL140 Molecular Sciences Lab (3 EC) + NWI-NP021D Golven en Optica (3 EC)
NWI-MOL103B Panorama Science (6 EC)	OF NWI-MOL140 Molecular Sciences Lab (3 EC) + NWI-NP032B Inleiding Neuroscience (3 EC)
NWI-MOL080 Molecular Structure (3 EC) + NWI-MOL007 Reactions and Kinetics (3 EC)	NWI-MOL124 Organic Chemistry 1 (6 EC)
NWI-MOL003 Mechanics 1A (3 EC) + NWI-MOL014 Electricity and Magnetism 1A (3 EC)	NWI-MOL130 Physics 1 (6 EC) only in 2019
NWI-MOL003/B Mechanics 1A/B (3 EC) + NWI-MOL012 Mechanics 2A/NWI-NP036 Rotaties en Period. Bewegingen (3 EC)	NWI-MOL133 Mechanics and Lab (6 EC)

The following mandatory courses in the programme for Chemistry, MLS or Science students who enrolled before 2019	Have been replaced by/can be replaced by:
NWI-MOL014 Electricity and Magnetism 1A (3 EC) + NWI-MOL025 Electricity and Magnetism 2A (3 EC) (Science)	NWI-MOL134 Electricity and Magnetism (6 EC)
or NWI-NP037 Elektriciteit en Magnetisme (6 EC)	NWI-MOL134 Electricity and Magnetism (6 EC)
NWI-MOL047 Synthesis of Biomolecules (3 EC)	NWI-MOL161 Organic Chemistry 2 (3 EC)
NWI-MOL048A Organic Chemistry Lab (6 EC)	NWI-MOL163 Synthesis Lab 2 (6 EC)
NWI-MOL049A Chemical Biology Project (6 EC)	NWI-MOL163 Synthesis Lab 2 (6 EC)
NWI-MOL044 Inorganic Chemistry Laboratory (3 EC)	NWI-MOL163 Synthesis Lab 2 (6 EC)
NWI-MOL102 Inorganic Chemistry (3 EC)	NWI-MOL162 Inorganic Chemistry 1 (3 EC)
NWI-MOL012 Mechanics 2A (3 EC) + NWI-MOL025 Electricity & Magnetism 2A (3 EC)	NWI-MOL160 Mechanics, Electricity, and Magnetism 2 (6 EC)
NWI-MOL028 Statistics (3 EC)+ NWI-MOL033/MOL076/MOL085 Programming (in) Matlab (3 EC)	NWI-MOL150 Data: Statistics and Programming (6 EC)
NWI-MOL036 General Physiology (3 EC) + 3 EC elective	NWI-MOL167 Comparative Physiology (6 EC)
NWI-MOL041 Quantum Mechanics 1 (3 EC) + NWI-MOL046 Quantum Mechanics 2 (3 EC)	NWI-MOL155 Quantum Mechanics (6 EC)
NWI-MOL042 Fourier Analysis (3 EC) + NWI-MOL045 Microscopic Techniques (3 EC)	NWI-MOL151 Data: Analysis and Techniques (6 EC)
NWI-MOL050 Condensed Matter (3 EC)	NWI-MOL157 Physical Organic Chemistry (3 EC)
NWI-MOL075 Bioinformatics A (3 EC)	NWI-MOL152 Data: Bioinformatics (3 EC)/Data: Structural Bioinformatics (3 EC)
NWI-MOL105 Inorganic Biochemistry (3 EC)	NWI-MOL172 Inorganic Chemistry in Biological Systems (3 EC)
NWI-MOL031 Biochemistry in the Living Cell (3 EC) and/or NWI-MOL038 Genetics (3 EC)	NWI-MOL158 Biomolecules at Work (6 EC)
NWI-MOL037 Molecular Life Sciences and Society (3 EC)	NWI-MOL170 Panorama Science and Society 1 (6 EC)
NWI-MOL092 Panorama Science 2: Energie en duurzaamheid (6 EC)	NWI-GCSE002 Energy and Sustainability (3 EC) + 3 EC elective
NWI-MOL099 Panorama Science 3: Food and Health (6 EC)	NWI-MOL175 Panorama Science and Society 2 (6 EC)

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#### ARTICLE 8.2 TRANSITIONAL PROVISIONS FOR COHORTS 2019-2020, 2020-2021, 2021-2022, 2022-2023, 2023-2024

For students from these cohorts, the programme is the same as described in Articles 7.3 and 7.4, provided certain courses can be taken in the first year instead of the second year, and vice versa.

NWI-MOL135 Thermodynamics (3 EC) is also called Physical Chemistry 1 (3 EC).

NWI-MOL136 Physical Concepts of Chemical Processes (3 EC) is also called Physical Chemistry 2 (3 EC)

NWI-MOL125 Synthesis Lab 1a (3 EC) is also called Organic Chemistry Lab 1a (3 EC).

NWI-MOL126 Synthesis Lab 1b (3 EC) is also called Organic Chemistry Lab 1b (3 EC).

NWI-MOL003 Mechanics 1 (3 EC) + NWI-MOL014 Electricity and Magnetism (3 EC) can be replaced NWI-MOL130 Physics 1 (3 EC).

Instead of NWI-MOL042 Fourier Analyse (3 EC) (NWI-MOL042 Data Analysis in Spectroscopies) + NWI-MOL045 Microscopic Techniques (3 EC), the examination programme can also include NWI-MOL151 Data: Techniques and Analysis (6 EC).

Instead of NWI-MOL190 Academic Writing in the Molecular Sciences (3 EC), the examination programme may also include NWI-FCEM02B Writing about Science (3 EC) (in English or in Dutch).

# PART IV FINAL PROVISIONS

## SECTION 9. FINAL PROVISIONS

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### ARTICLE 9.1 SAFETY NET SCHEME AND HARDSHIP CLAUSE

1. In all cases not covered fully or clearly by these regulations, the final decision lies with the Dean. If this concerns an educational unit in which the Dean is involved, the Vice Dean responsible for education will decide.
2. In all cases in which these regulations may result in an unreasonable or unfair situation for individual students, the Examination Board or the Dean is authorised to make an exception to the provisions in these regulations. Unless this concerns an educational unit in which the Dean is involved, in which case the Vice Dean responsible for education is authorised to do so instead of the Dean.

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### ARTICLE 9.2 ESTABLISHMENT AND AMENDMENTS

1. Without prejudice to the provisions in Article 7 of the Structure Regulations, these regulations are established or amended by the Dean following advice from the programme committees and approval by the Joint Assembly of the Faculty.
2. An amendment to these regulations applies in the current academic year, unless this would disproportionately damage the interests of the student.
3. Notwithstanding the provisions of paragraph 1, the Dean is authorised to drop elective educational units from the curriculum should the circumstances be deemed impossible for offering these educational units.

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### ARTICLE 9.3 ENTRY INTO FORCE

These regulations enter into force on 1 September 2025.

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### ARTICLE 9.4 PUBLICATION

The Dean is responsible for ensuring that these regulations and any amendments thereto are published in an appropriate manner via the [Radboud University website](#).

As established by the Dean on 15 July 2025.

## APPENDIX 1: GUIDELINE FOR AWARDING DISTINCTIONS<sup>1</sup>

- a. With due observance of the provisions set out in this Article, the Examination Board is responsible for deciding whether a distinction should be awarded and if so, which distinction.
- b. The distinction is calculated on the basis of all units of the examination programme for which a grade has been awarded on a scale from 1 to 10, with the exception of extracurricular units.
- c. The number of EC of the unit referred to in paragraph b shall serve as the weighting factor for the calculation of the weighted average result, unless stipulated otherwise in the programme-specific part of the EER.
- d. The distinction 'cum laude' shall be awarded if the weighted average result of the final assessment of the units referred to in paragraph b is equal to or higher than 8.0.

Both the EC-weighted average of the assessments of all the educational units of the examination with a study load of **less than 20 EC** and the EC-weighted averages of the assessments of the educational units of the examination with a study load **equal to or more than 20 EC** must be at least equal to 8.0 before any rounding off.

- e. The distinction 'summa cum laude' shall be awarded if the weighted average result of the final assessment of the units referred to in paragraph b is equal to or more than 9.0.

Both the EC-weighted average of the assessments of all the educational units of the examination with a study load of **less than 20 EC** and the EC-weighted averages of the assessments of the educational units of the examination with a study load **equal to or more than 20 EC** must be at least equal to 9.0 before any rounding off.

- f. The distinction shall not be awarded if more than 10% of the total study load of the examination programme (consisting of one or more educational units) has been resat, unless the Examination Board decides otherwise, stating their reasons for this decision.
- g. The distinction shall not be awarded if interim examinations have been resat more than once, unless the Examination Board decides otherwise, stating their reasons for this decision.
- h. The distinction shall not be awarded if the scope of the granted exemptions constitutes more than 50% of the programme, taking into account any further restrictions to the permitted number of exemptions as established in the EER.
- i. The distinction shall not be awarded if fraud was discovered in one of the educational units of the examination programme.

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<sup>1</sup> In this guideline, 'unit' refers to an educational unit as referred to in Article 7.3, paragraphs 2 and 3 of the Act.

## APPENDIX 2: FRAUD REGULATIONS

### SECTION 1. INTRODUCTORY PROVISIONS

#### ARTICLE 1. OBJECTIVE AND SCOPE OF THE REGULATIONS

The Dean of the Radboud University Faculty of Science has drawn up the following regulations with a view to preventing fraud during interim and final examinations as referred to in Article 7.12b of the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk onderzoek, hereinafter: 'the Act') and that are part of the teaching and examinations of the study programmes offered by the Radboud University Faculty of Science.

#### ARTICLE 2. DEFINITIONS

The terms used in these regulations – in so far as these terms also appear in the Act or the Education and Examination Regulations of the study programme (hereinafter: the EER) – have the same meaning as that given to them in the Act and the EER.

### SECTION 2. DEFINITION OF FRAUD, PROCEDURE AND SANCTIONS

#### ARTICLE 3. DEFINITION OF FRAUD

1. At Radboud University, fraud is understood to mean any act or omission by a student which, by its nature, is intended to render the proper assessment of the knowledge, understanding and skills of that student or another student fully or partially impossible.
2. Fraud is understood to mean in any case:
  - a. Fraud when taking written interim and final examinations, including:
    - i. Having access to unauthorised aids as referred to in the House Rules for Radboud University Examination Rooms
    - ii. Looking at the work of others or exchanging information
    - iii. Impersonating someone else or allowing someone else to impersonate oneself during an interim or final examination
  - b. Committing fraud when writing theses or other papers, or completing assignments, including:
    - i. Plagiarism in the sense of using or copying someone else's texts, data or ideas without complete and correct references to sources, plagiarism in the sense of copying the work of another student and presenting this as one's own work, and other specifically academic forms of plagiarism
    - ii. The fabrication and/or falsification of research data
    - iii. The submission of a thesis or other paper that has been written by someone else
  - c. Other fraud during assessment and examination, including:
    - i. Taking possession of assignments, answer keys and the like, prior to the time the interim or final examination takes place
    - ii. Changing answers to questions on an interim or final examination after it has been submitted for assessment
    - iii. Providing incorrect information when requesting an exemption, an extension of the validity period, and other similar requests regarding an interim or final examination
3. Any attempt at fraud will also be considered fraud in the sense of these regulations.

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#### ARTICLE 4. PROCEDURE FOR DETERMINING FRAUD

1. In the event that fraud is suspected, the Examination Board or the examiner will immediately inform the student. If fraud is suspected while an interim or final examination is being administered, the Examination Board or the examiner will provide the student with the opportunity to complete the interim or final examination.
2. The Examination Board or the examiner may order the student to hand over the materials involved in the suspicion of fraud.
3. For the application of the provisions in paragraphs 1 and 2, 'examiner' is also understood to mean the invigilator or another Radboud University staff member.
4. The Examination Board or the examiner will draw up a report of the suspected fraud. If the examiner draws up the report, the examiner will send it to the Examination Board immediately.
5. The Examination Board will immediately make the report referred to in paragraph 4 available to the student and will launch an investigation into the matter. The Examination Board will provide the student with the opportunity to respond to the report in writing. The Examination Board will hear both the examiner and the student.
6. Within four weeks of making the report available to the student, the Examination Board will determine whether there is evidence of fraud. The Examination Board will inform both the student and the examiner of its decision in writing. The period of four weeks may be extended by two weeks.

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#### ARTICLE 5. REMEDIAL MEASURES

If the Examination Board determines that fraud has been committed:

- a. The Examination Board will declare that the relevant interim or final examination taken by the student (or students) in question is considered invalid, and
- b. It will document the identification of fraud and, if applicable, the sanctions imposed in the student's file.

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#### ARTICLE 6. SANCTIONS

1. If the Examination Board determines that fraud has been committed, it may:
  - a. Decide that the student is no longer allowed to sit one or more interim or final examinations during a period to be defined by the Examination Board, being no longer than one year.
  - b. Make a recommendation to the Manager and Faculty Programme Director of the Honours Academy that the student should not be admitted to the honours programme of the University or the Faculty, or recommend that the student's participation in the honours programme of the University or the Faculty be terminated.
2. If the Examination Board establishes that serious fraud has been committed:
  - a. The Examination Board may recommend to the Executive Board that the student's enrolment in a study programme be definitively terminated.
  - b. The Executive Board may definitively terminate the student's enrolment in a study programme at the recommendation of the Examination Board.
3. As described in the Guideline for Awarding Distinctions, a distinction will not be awarded if fraud has been detected in one or more of the educational units of the examination programme as a whole.
4. The sanctions as specified in this provision will be imposed as from the day following the date on which the student has been informed of the decision to impose the sanctions.

## SECTION 3. FINAL PROVISIONS

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### ARTICLE 7. DECISIONS AND LEGAL PROTECTION

1. Decisions on the basis of these regulations may be sent to the student via OSIRIS and/or by email.
  2. For decisions based on these regulations, the student is permitted to appeal the relevant decision with the Examination Appeals Board (EAB) within six weeks of the decision date.
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### ARTICLE 8. ADOPTION AND AMENDMENTS

1. These regulations are adopted and amended by the Dean.
  2. Where the content of these regulations relates to duties and powers of the Examination Board of the study programme, that content must also be ratified by that Examination Board.
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### ARTICLE 9. ENTRY INTO FORCE

These regulations enter into force on 1 September 2025. On that date, these regulations will replace any previous regulations.

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### ARTICLE 10. PUBLICATION

1. The Dean is responsible for publishing these regulations and for appropriately disclosing any amendments thereto.
2. For the purpose of proper and clear provision of information to students and prospective students, the Dean will include these regulations as an appendix to the EER.

As established by the Dean on 15 July 2025 and ratified by the Examination Board on 15 July 2025

### CHAPTER 1. INTRODUCTORY PROVISIONS

#### ARTICLE 1. LEGAL BASIS

These regulations are based on Article 7.8b of the Higher Education and Research Act (Wet op het Hoger onderwijs en Wetenschappelijk onderzoek, hereinafter: 'the Act') and the 'First Year Study Advice Guideline and Regulations' adopted by the Executive Board on 11 October 2022.

#### ARTICLE 2. OBJECTIVE OF THE REGULATIONS

These regulations contain the implementation rules referred to in Article 7.8b, paragraph 6 of the Act.

#### ARTICLE 3. SCOPE OF THE REGULATIONS

These regulations apply to students who have not yet completed the propaedeutic phase of a Bachelor's programme, including former students in the academic year in which they were enrolled in the propaedeutic phase of a Bachelor's programme.

#### ARTICLE 4. DEFINITIONS

1. The terms used in these Regulations that also occur in the Act have the same meaning as that assigned to them by the Act, unless stated otherwise in paragraph 2.
2. Without prejudice to paragraph 1, in these regulations, the following definitions apply:
  - a. Rejection: a rejection as referred to in Article 7.8b, paragraph 3 of the Act, on the basis of which the student's enrolment in the study programme concerned is terminated and re-enrolment is not possible
  - b. Propaedeutic phase: the first period in a Bachelor's programme with a study load of 60 European Credits (hereinafter: EC)
  - c. Study advice: advice as referred to in section 7.8b, paragraph 3 of the Act on the continuation of studies
  - d. Study progress standard: the requirements for the study results as referred to in Article 7.8b, paragraph 3 of the Act, expressed in number of EC
  - e. Implementation Decree: the 2008 Implementation Decree of the Act

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### ARTICLE 5. ISSUING STUDY ADVICE

1. The Dean issues a study advice to every student in the propaedeutic phase of a Bachelor's programme. The timing of the issuing of study advice is regulated in Chapter 3.
2. The study advice to be issued by the Dean may include:
  - a. A 'positive study advice' as referred to in Article 6, containing advice to the student to proceed with the study programme, or
  - b. A 'negative study advice' as referred to in Article 7, containing advice not to proceed with the study programme.
3. Notwithstanding paragraph 1, no study advice shall be issued to students who terminated their enrolment in the study programme before 1 March of the first year of enrolment.
4. Notwithstanding paragraph 1, no study advice shall be issued to students who were first enrolled in the study programme after 31 January and who did not enrol again for the next academic year.

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### ARTICLE 6. POSITIVE STUDY ADVICE

The Dean issues a 'positive study advice' if the student has met the relevant study progress standard as referred to in Chapter 3.

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### ARTICLE 7. NEGATIVE STUDY ADVICE

The Dean issues a 'negative study advice' if the student has not met the relevant study progress standard as referred to in Chapter 3.

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### ARTICLE 8. REJECTION IN CASE OF NEGATIVE STUDY ADVICE

1. The Dean shall attach a rejection to a 'negative study advice' as referred to in Article 7, unless the student failed to achieve the study progress standard as a result of one or more of the personal circumstances as referred to in Chapter 4.
2. Rejections as referred to in paragraph 1 are subject to a three-year period of time.
3. The Dean may only attach a rejection to a study advice if:
  - a. In the propaedeutic phase of the study programme concerned, provisions were made to ensure opportunities for good study progress, and
  - b. The Dean has issued the student with a warning as referred to in Article 21.
4. The rejection referred to in paragraph 1 may extend to study programmes with the same first-year programme.
5. If the Dean attaches a rejection to a negative study advice, the student is not considered suitable for the study programme.

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### ARTICLE 9. POSTPONED STUDY ADVICE DECISION

1. If, due to personal circumstances that have occurred in the first academic year, no assessment can be made of the student's suitability for the study programme, the Dean shall postpone issuing the study advice.
2. In exceptional cases, the Dean may make a reasoned decision to postpone issuing the study advice again.

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### ARTICLE 10. STUDY PROGRESS STANDARD IN CASE OF INITIAL ENROLMENT BEFORE 31 JANUARY

Students who first enrol in the propaedeutic phase of a Bachelor's programme before 31 January shall receive their study advice at the end of that same academic year, no later than 31 August of that academic year. The following study progress standards apply:

- a. For a full-time Bachelor's programme: 39 EC.

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### ARTICLE 11. STUDY PROGRESS STANDARD IN CASE OF INITIAL ENROLMENT AFTER 31 JANUARY

Students who first enrolled in the propaedeutic phase of a Bachelor's programme in the previous academic year after 31 January, shall receive their study advice at the end of the next academic year, no later than 31 August of that academic year. The following study progress standards apply:

- a. For a full-time Bachelor's programme: 60 EC.

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### ARTICLE 12. STUDY PROGRESS STANDARD WHEN RE-ENROLLING AFTER DISCONTINUING STUDIES

Students who did not receive a study advice in a previous first year of enrolment under application of Article 5, paragraph 3 or 4 and who re-enrol for the study programme within a period of three years, shall receive a study advice at the end of the academic year in which they re-enrol for the study programme, no later than 31 August of that academic year. The following study progress standards apply:

- a. For a full-time Bachelor's programme: 60 EC.

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### ARTICLE 13. STUDY PROGRESS STANDARD AFTER POSTPONED STUDY ADVICE DECISION

Students for whom the study advice decision was postponed by application of Article 9 shall receive their study advice at the end of the following academic year, no later than 31 August of that academic year. The following study progress standards apply:

- a. For a full-time Bachelor's programme: 60 EC.

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### ARTICLE 14. DETERMINING WHETHER THE STANDARD HAS BEEN MET

To determine whether the study progress standards as referred to in this chapter have been met, only EC awarded for educational units within the examination programme of the propaedeutic phase of the relevant Bachelor's programme count, including EC awarded for exemptions granted for those units.

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### ARTICLE 15. DUAL STUDY PROGRAMMES

With regard to students enrolled in accredited dual study programmes, the Dean may deviate from the provisions of this chapter where necessary.

## CHAPTER 4. PROVISIONS FOR STUDY PROGRESS: PERSONAL CIRCUMSTANCES

### ARTICLE 16. PROVISIONS FOR STUDY PROGRESS

The study programme provides provisions to ensure opportunities for good study progress. For more information about these provisions, please refer to the student advisor, who is available to all students.

### ARTICLE 17. PERSONAL CIRCUMSTANCES IMPLEMENTATION DECREE

In deciding whether to attach a rejection to a negative study advice, the Dean takes into account personal circumstances as referred to in Article 2.1 of the Implementation Decree.

### ARTICLE 18. PERSONAL CIRCUMSTANCES RADBOD UNIVERSITY

In addition to the provisions of Article 17, the Dean also takes the following personal circumstances into account when issuing a study advice:

- a. The student engages in elite sport.
- b. The student is a top talent in arts or culture.

### ARTICLE 19. TIMELY NOTIFICATION OF PERSONAL CIRCUMSTANCES

If, as a result of a circumstance referred to in this section, a student is possibly unable to meet the study progress standard, the student must report this to the student advisor as soon as possible. Upon timely notification of impeding personal circumstances, the study programme may make provisions to safeguard study progress as much as possible.

### ARTICLE 20. BURDEN OF PROOF FOR PERSONAL CIRCUMSTANCES

The student may be asked to further substantiate or justify claims concerning personal circumstances.

## CHAPTER 5. PROCEDURE AND DECISION MAKING

### ARTICLE 21. PRELIMINARY STUDY ADVICE AND INTERVIEW

The Dean shall issue a preliminary study advice to the student as soon as possible after the end of the first semester during which the student is enrolled for the study programme, but no later than on the last day of February, based on the results registered up till that point. The preliminary advice is intended as a warning for students who have failed to make adequate study progress. The students in question will be invited for an interview with the student advisor to discuss how their study results could be improved on or what other alternative study programmes would suit them better.

### ARTICLE 22. WRITTEN NOTIFICATION BY STUDENT ADVISOR

1. If the student has not met the applicable study progress standard, the Dean obtains information from the student advisor regarding the student's personal circumstances, as referred to in Chapter 4, prior to reaching a decision about the study advice. The student advisor can advise the Dean about the study advice to be issued.
2. The student advisor shall provide the information referred to in the previous paragraph in writing. The student shall receive a copy of this.

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#### ARTICLE 23. PROPOSED STUDY ADVICE

1. Given the information from the student advisor as referred to in Article 22, the Dean draws up a proposal regarding their decision on study advice.
2. The Dean shall notify the student of their proposed decision as referred to in paragraph 1 and shall enable the student to be heard before the decision is made.

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#### ARTICLE 24. HEARING THE STUDENT

1. Given the provisions of Article 23, the student shall be heard by the Dean upon request.
2. If the student does not make use of the opportunity to be heard, the Dean shall, without further ado, convert the proposal referred to in Article 23 into an identical study advice decision.
3. If the student takes advantage of the opportunity to be heard, the Dean shall decide on the study advice taking into account what was discussed during the hearing.

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### CHAPTER 6. FINAL PROVISIONS

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#### ARTICLE 25. IMPLEMENTATION OF THE REGULATIONS AND AUTHORISATIONS

For the implementation of the provisions of these regulations, the Dean has appointed the First Year Study Advice Committee as its authorised representative by separate decision.

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#### ARTICLE 26. DIGITAL TRANSMISSION

Messages pertaining to – and decisions based on – these regulations shall be sent digitally to the student via OSIRIS and/or the email address the student has submitted in OSIRIS.

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#### ARTICLE 27. LEGAL PROTECTION

1. For decisions based on these regulations, the student is permitted to appeal the relevant decision within six weeks of the decision date to the Examination Appeals Board.
2. The appeal referred to in paragraph 1 does not suspend the validity of the binding study advice.

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#### ARTICLE 28. SAFETY NET CLAUSE

In all cases not covered or not sufficiently covered by these regulations, the Executive Board shall decide.

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#### ARTICLE 29. ENTRY INTO FORCE

1. These regulations enter into force on 1 September 2025.
2. These regulations replace previous regulations and directive related to the study advice referred to in these regulations, including the BSA 2019-2020 Directive.

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#### ARTICLE 30. PUBLICATION

The Dean shall announce these regulations by attaching them as an appendix to the EER of the relevant Bachelor's programme.

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#### ARTICLE 31. CITATION TITLE

These regulations can be cited as 'First Year Study Advice Guideline and Regulations', including the name of the relevant Bachelor's programme.

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#### ARTICLE 32. ADOPTION

These regulations have been established by the Dean of the Faculty, Sijbrand de Jong, on 15 July 2025, with due observance of the provisions of the First Year Study Advice Guideline established by the Executive Board.