

Education and Examination Regulation 2018-2019

Bachelor Biology

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PART I GENERAL PROVISIONS

Section 1. General provisions

Article 1.1 Applicability of these regulations

1. These Education and Examination Regulations (EER) apply to the Bachelor's programmes of the Faculty of Science and outline the applicable procedures, rights and obligations concerning teaching, interim examinations and final examinations.
2. The present regulations apply to all students enrolled in a Faculty of Science degree programme in the academic year 2018-2019. Students who enrolled in their programme before 1 September 2017 should appeal to the EER in effect at the time of their first enrolment for the programme, if they have continuously been enrolled.
3. The faculty offers the following Bachelor's programmes:
 - a. Biology;
 - b. Computing Science and Information Science;
 - c. Molecular Life Sciences;
 - d. Natuur- en Sterrenkunde;
 - e. Chemistry;
 - f. Science;
 - g. Wiskunde.
4. The degree programmes have a study load of 180 EC: the propedeutic phase corresponds with the first academic year and has a study load of 60 EC; the core (post-propedeutic) programme has a study load of 120 EC.
5. All degree programmes are offered exclusively as full-time programmes.
6. The Molecular Life Sciences and Chemistry programmes are taught in English. Other programmes have English components. An overview can be found in Article 7.2.

Article 1.2 Definitions

1. The terms used in these EER, which are also used in the Higher Education and Research Act (Wet op het hoger onderwijs en wetenschappelijk onderzoek, hereinafter, "the Act") will have the same meaning as in the Act.
2. Apart from the terms referred to in paragraph 1, the terms below will be understood to have the following meaning:
 - a. Degree programme: the Bachelor's programme referred to in Article 7.3a, paragraph 1 of the Act;
 - b. Component: an educational unit as referred to in Article 7.3, paragraphs 2 and 3 of the Act;
 - c. Student: anyone enrolled at Radboud University for participation in a degree programme and/or in the courses or final examinations of a programme;
 - d. First year: the foundational year (propedeutic phase) of the programme, as referred to in Article 7.8 of the Act;
 - e. Academic year: the period of time from 1 September until 31 August the next calendar year;
 - f. Practical exercise: a practical exercise as referred to in Art. 7.13 paragraph 2 under D of the Act;

- g. Interim examination: an examination testing the knowledge, understanding and skills of the student in relation to a certain unit of study, as well as the assessment of this examination, which is administered by at least one examiner designated by the Examination Board;
- h. Final examination: an examination of the student's academic achievements, in which the Examination Board determines whether or not all examinations that are part of the Bachelor's (propedeutic and core phase) programme have been successfully completed. The Examination Board may determine that this review requires a test of the candidate's knowledge, understanding and skills by the Examination Board itself and an assessment of the results of that test (in accordance with Article 7.10 of the Act);
- i. Fraud: every (lack of) action by a student aimed, or partially aimed, at making it impossible to accurately assess the knowledge, insight, and skills of the student, or of another student;
- j. Examination Board: the examination committee of a degree programme, established in accordance with Article 7.12 of the Act. Also see the Radboud University Structural Regulations;
- k. Examiner: the person designated by the Examination Board to administer the interim examination, in accordance with Article 7.12 of the Act;
- l. EC: European Credits, i.e. the study load unit in accordance with the European Credit Transfer System. One EC is equal to 28 hours of study;
- m. Work day: Mondays to Fridays, with the exception of official holidays and any other days marked by Radboud University as collective holidays;
- n. Awarding of the degree certificate: the formal confirmation that all the examination requirements have been met;
- o. Study guide: the guide for a particular degree programme of the Faculty of Science, containing specific information for the Bachelor's programme;
- p. The university: Radboud University;
- q. The faculty: The Faculty of Science;
- r. Minor: a cohesive selection of components;
- s. Free elective: a freely selected, academic, assessable component.
- t. Double Bachelor's: an excellence programme where a student follows two Faculty of Science Bachelor's programmes simultaneously.

PART II PROVISIONS APPLICABLE TO ALL BACHELOR'S PROGRAMMES

Section 2. Access to the degree programmes and education

Article 2.1 Prior education requirements

To be admitted to the programme, the student must meet the statutory (additional) prior education requirements set out by the Act.

Article 2.2 Replacement requirements for insufficient prior education

The student who has a pre-university education diploma that does not meet the prior education requirements referred to in Article 2.1, may still enrol, with due observance of the provisions of Article 7.25 paragraph 5 of the Act, on the condition that comparable requirements have been met in terms of content and subject to further assessment. The assessment procedure and the requirements are outlined in the programme-specific part of these regulations.

Article 2.3 Language requirements

1. A sufficient command of the Dutch language is required to participate in courses and examinations taught or given in Dutch. Non-Dutch students have met the language requirement for sufficient proficiency in Dutch if they have passed the state examination of Dutch as a second language, level 2. The Examination Board may in certain cases assess whether a student has sufficient proficiency in Dutch.
2. A sufficient command of the English language is required to participate in the programme and possibly to sit for examinations in English. This requirement is met if the student:
 - a. is from an English-speaking country. The Faculty of Science understands the following countries to be English-speaking countries: Australia, Canada (with the exception of Quebec), Ireland, New Zealand, Singapore, South Africa, the United Kingdom, and the United States of America; or
 - b. has a diploma for pre-university education (VWO); or
 - c. has a diploma for pre-university education obtained at an English-language institution in the Netherlands or abroad; or
 - d. has a diploma for pre-university education obtained at a German secondary education institution, with English as Grundkurs; or
 - e. has a Bachelor's diploma for a university of applied sciences (HBO); or
 - f. has a Bachelor's diploma earned at a Dutch university; or
 - g. een van de onderstaande toetsen heeft afgelegd:
 - i. the TOEFL with a score of 575 or higher for the paper version;
 - ii. the TOEFL with a score of 90 or higher for the Internet version, with no sub-scores lower than an 18;
 - iii. the IELTS with a score of 6.5 or higher, with no sub-scores lower than a 6,0;

- iv. the Cambridge CAE or CPE with a score of C or higher.
- 1. In certain cases, the Examination Board may assess whether a student has sufficient proficiency in English.

Section 3. Structure and design

Article 3.1 Final examination, degree and distinctions

1. The first year of the degree programme, being the propedeutic phase, concludes with the propedeutic examination. All Bachelor's programmes conclude with a Bachelor's examination.
2. A student who has passed the examination of the Bachelor's degree programme will be awarded the Bachelor of Science (BSc) degree.
3. The degree referred to in the second paragraph, is exclusively awarded if the student has earned at least half of their EC at this university.
4. The examination board can award a distinction to a student who has successfully passed the degree programme examination. The rules for awarding a distinction are to be found in Article 4.7 of this EER.

Article 3.2 General learning outcomes

1. The degree programme has the following learning outcomes for students:
 - a. Acquire knowledge, skills and insights in the relevant field of study;
 - b. Develop academic competences;
 - c. Preparation for future career.
2. Students who have completed one of the faculty 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 Master's programmes at the university.

Article 3.3 Curriculum

1. The programme comprises the total of the components as described in the programme-specific part of these regulations and is aimed at the realisation of the objectives described in Article 3.2.1.
2. The Bachelor's programmes comprise a component with a study load of 3 EC with the purpose of reflection on study performance and planning, as well as boosting the development of academic skills.
3. The (post-propedeutic) core programme comprises a free elective component with a minimum study load of 6 EC. The elective courses cannot have a substantial overlap in content with courses from the mandatory component. Courses that overlap with the elective courses within the mandatory programme or in the minor component are also not allowed.
4. Every programme has a minor component of at least 15 ec in which the student can participate in a minor.

5. If a minor is not accessible for students from a specific Bachelor's programme, this will be stated in the programme specific part of these EER.
6. The approval of the Examination Board needs to be requested if a student wants to do a minor which is not offered by Radboud University. Minors offered by Radboud University can be found in the prospectus. This minor will be labelled as a 'free minor' and needs to meet the following requirements:
 - a. The minor encompasses at least 15 ec and at most 30 ec;
 - b. The minor has thematic coherency.
7. The core programme also includes one or more components of a philosophical nature, in total amounting to at least 3 EC, as well as a writing skills component of 3 EC.
8. Finally, the core programme includes an individual final aptitude test (Bachelor's thesis) with a study load of 12 EC.
9. By way of derogation from what is stated in paragraph 8, the Bachelor's thesis can be expanded. This is the case when a student is admitted into the Radboud Honours Academy FNWI. The Bachelor's thesis can then be expanded with an internship, possibly abroad, of which the number of ec is to be determined on the basis of the Radboud Honours Academy FNWI programme. In all other cases where an expansion is possible, this will be stated in the programme specific component of these EER.
10. The composition of the Bachelor's programme compiled by the student must be presented for approval to the Examination Board no later than six months before the expected examination date. The Examination Board will decide whether to grant approval within a month of receiving the submitted programme.

Article 3.4 Sequence of education and interim examinations

1. For admission to the core programme, students must have successfully completed the first year (propedeutic) examination for the relevant degree programme.
2. Contrary to the first paragraph, students who do not meet the requirements of the propedeutic examination after the first year may already take interim examinations in the second academic year (core programme) if they have earned a minimum of 39 EC during the first year.
3. At the request of the student, the Examination Board may allow him/her to participate in certain components and take certain interim examinations in the core programme if they have earned fewer than 42 EC. This requires the student to create a plan in consultation with the student advisor. On the basis of this plan, the Examination Board will decide on the period of validity of the granted access.
4. The student may not start the final aptitude test (Bachelor's thesis) before the first year examination has been successfully completed and a minimum of 60 EC of the core programme have been obtained.
5. The programme-specific part of these EER may contain further criteria for the order in which components may be taken and the related interim examinations.

Article 3.5 Type of interim examination

1. Each component of the degree programme will be concluded by an interim examination. Interim examinations may comprise more than one modular interim examination and are administered in the following forms:
 - a. Written (paper and/or digitally)
 - b. Oral
 - c. Presentation
 - d. Proficiency test
 - e. The production of a product or text.
2. For each component, the examiner will announce through the prospectus the form in which the interim examinations will be administered prior to the commencement of the academic year. The Examination Board may determine that the type of interim examination be changed from what was stated in the prospectus per request by a student or the examiner. This change cannot disadvantage the student.
3. Students with disabilities are given the opportunity to take interim examinations in a manner appropriately suited to their disability. The Examination Board, if necessary, shall seek expert advice and counsel prior to reaching its decision. If the students in question require certain facilities for their interim examinations, they must request these from the faculty's Education and Examination Administration no later than two weeks before the interim examination.
4. For oral examinations, no more than one person is tested at the same time, unless decided otherwise by the Examination Board.
5. An oral interim examination is not public, unless the Examination Board has deemed otherwise for exceptional cases.
6. Oral interim examinations are administered in the presence of a second examiner or an observer appointed by the Examination Board. In special cases, the Examination Board may require that the oral interim examination be recorded.

Article 3.6 Exemptions

1. At the request of a student and having heard the examiner involved, the Examination Board may exempt the student, either partially or fully, from an interim examination if the student:
 - a. Has passed a course examination in a relevant subject at a university or institute of higher vocational education (HBO)
 - b. Demonstrates that he/she has adequate knowledge and skills regarding the component in question as a result of relevant work experience or professional experience
2. If the programme has generic exemptions, these can be found in the programme specific component of these EER.
3. Students who were first enrolled in 2017/2018 can never have more exemptions, as stated in paragraph 1, than 70 ec.
4. The Bachelor's thesis is an exception to the exemptions stated in paragraph 1.
5. An exception to the rule stated in paragraph 4, a student who does a double Bachelor's can receive an exemption for a Bachelor's thesis if they completed a Bachelor's thesis for another programme within the Faculty of Science.

Article 3.7 Term of validity of successfully completed interim examinations

The term of validity of successfully completed interim examinations is unlimited.

Article 3.8 Individual degree programme

A request for an individual degree programme as stated in Article 7.3d of the Act must be approved by the Examination Board. The Examination Board checks if the programme fits within the domain of the programme, whether there is enough cohesion in the programme, and if the level is high enough to meet the standards of the programme.

Section 4. Examinations

Article 4.1 Frequency of interim examinations

1. The opportunity to participate in a lab (course) is offered at least once a year.
2. Students are given at least two opportunities per year to take interim examinations.
3. Contrary to the stipulation in the second paragraph, there will be at least one opportunity in the following year to take an interim examination for a course that was taught for the final time in the previous academic year.
4. If a certain component is not given in a particular year, the opportunity to take the corresponding examination will be offered once in that year, as long as the interim examination is administered in written or oral form.

Article 4.2 Registration for interim examinations

1. Students who register through OSIRIS for courses in the programme are also automatically registered for the first interim examination opportunity in the relevant academic year. If a student does not wish to participate in the interim examination, he/she must de-register for the examination via Osiris up to 1 day before the examination date. After the abovementioned time period, the student can only personally deregister directly with the lecturer up until the starting time of the interim examination.
2. The student must register for an interim examination in accordance with the applicable guidelines and instructions, no later than seven days before the interim examination date.

Article 4.3 Confirmation of interim examination results

1. The result of an interim examination is determined by an examiner in the form of a grade on a scale of 1 to 10 (with 10 as the highest possible grade), consisting exclusively of whole number or half numbers. The grade 5.5, however, is never given. When rounding off between 5 and 6, the rule is that a grade lower than 5.5 is rounded down to a five (5) which is an insufficient grade, meaning the educational component has not been successfully completed; while a 5.5 and higher

is rounded up to a six (6), meaning that this educational component has been successfully completed. In addition to results in the form of a grade, the assessments “satisfactory” and “not satisfactory” may also be awarded.

2. If a student re-sits an interim examination, the most recent mark will determine the final result.

Article 4.4 Publication of results

1. The examiner shall, on the date that an oral interim examination is administered, determine the result and give the student a written statement of this.
2. The examiner shall determine the result of a written interim examination within 10 work days of the date it was administered for interim examinations in the propedeutic phase and within 15 working days for interim examinations in the core phase. The precondition applies that there must be at least 10 work days between the date of the publication of the result in Osiris and the date of the resit. The examiner will provide the faculty administration office with the necessary details for them to award the document of proof regarding the student’s result. This result must be made available to the student within two working days after the result has been determined.
3. Contrary to the provisions in paragraph 2, the examiner shall determine the result of a written interim examination in the fourth quarter of the propedeutic phase within 5 working days of the date it was administered. Also contrary to the provisions in paragraph 2, there should be a period of at least 9 work days between the date of announcing the result of an interim examination in Osiris and the date of a resit of an interim examination from the fourth quarter of the core phase. This result must be made available to the student within one work day after the result has been determined.
4. In special cases, the Examination Board may extend the term in which the result must be determined as referred to in paragraph 2 by a maximum of 10 work days.
5. Contrary to the provisions in paragraphs 2 and 3, the faculty board may establish supplementary regulations for the components that are part of the first year (propedeuse) for the periods within which the results of interim examinations of those components must be determined, in particular with respect to the provisions in Section 5.
6. In instances in which an interim examination is administered in a form other than oral or written, the Examination Board shall determine prior to the administration of the examination how and when the student shall be issued a statement of the result. This term shall not be longer than 30 days after the interim examination was administered.
7. On this statement of the result of an interim examination, the student is informed of his/her right of inspection, referred to in Article 4.5, as well as the right to appeal to the Examination Appeals Board.
8. A student may submit an appeal of a decision by the Examination Board to the Examination Appeals Board within six weeks.

Article 4.5 Right of inspection and right of cognisance

1. Within at least 30 days following publication of a written interim examination result, the student may request access to review and inspect all graded work. For the results of interim examinations with “open” questions, at the student’s request he/she shall be granted a copy of their graded work at cost.

2. During the period referred to in paragraph 1 of this Article, 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 result was based.
3. The Examination Board may determine that the inspection or review shall take place at a particular location and provide at least two different time periods. If the student demonstrates that he/she is unable to attend the inspection or review as a result of force majeure, then another option shall be offered, if possible within the period stated in paragraph 1 of this Article.
4. In all cases, provided this has been requested by the student in a timely fashion, the inspection must take place a minimum of five working days before the resit of an interim examination.
5. The Examination Board shall retain all written interim examinations and related papers (assignments or otherwise) that count towards the final result for a period of two years following the date when the examination was administered. Bachelor's programme reports and theses must remain available for visitations, accreditations, and inspections and shall be kept for seven years.

Article 4.6 Confirmation of the result of the final examination

1. The student is given the opportunity to take the final examination after he/she has provided sufficient proof that he/she has passed the components leading up to the final examination.
2. The Examination Board will determine the result of the final examination, as well as the rules in relation to the manner in which the result of the examination is determined.
3. Prior to determining the result of the final examination, the Examination Board may evaluate and assess the student's knowledge with respect to one or more components or aspects of the programme, if and to the degree that the results of the related interim examinations justify this.

Article 4.7 Awarding distinctions

1. With due observance of the provisions set out in this Article, the Examination Board is responsible for the decision of whether a distinction shall be awarded and if so, which distinction.
2. The distinctions
 - a. "Cum laude" shall be awarded if the weighted average result of the final assessment of the components referred to in paragraph 3 is equal to or higher than 8.0, or
 - b. "Summa cum laude" shall be awarded if the weighted average result of the final assessment of the components referred to in paragraph 3 is equal to or higher than 9.0.
3. The distinction shall be calculated on the basis of all components of the examination programme for which a mark has been awarded on a scale of 1 to 10, with the exception of extra-curricular components.
4. The number of EC of the component referred to in paragraph 3 shall serve as the weighting factor for the calculation of the weighted average result, unless provided otherwise in the programme-specific part of these regulations.
5. The distinction shall not be awarded if more than 10 per cent of the total study load of the examinations for the degree programme (being one or more components) has been re-sat or if interim examinations have been re-sat more than once, unless the Examination Board decides otherwise, stating the reasons for this decision.
6. If a student does not deregister on time, their non-participation in the exam will be seen as a used exam opportunity, unless the Examination Board decides otherwise. If a student can prove that

they were unable to participate or deregister on time due to a force majeure, the Examination Board can decide to retroactively deregister the student.

7. The distinction shall not be awarded if fraud was discovered in one of the examinations of the degree programme.

Article 4.8 Fraud and plagiarism

1. Supplement to Article 1.2 paragraph 1 sub-paragraph i, the faculty describes fraud as:
 - a. Fraud with midterms, labs, and exams, such as
 - i. having tools which are not allowed;
 - ii. cheating or exchanging information;
 - iii. pretending to be someone else, or having someone else represent as you during a midterm or exam;
 - iv. possession of the exam questions prior to the exam;
 - v. changing answers after the work has been handed in for assessment;
 - vi. providing incorrect information when requesting an exemption.
 - b. Fraud in theses and other written works, such as
 - i. plagiarism by using or copying other people's text, data, or ideas without correct or complete sourcing;
 - ii. plagiarism by using another student's work and presenting it as your own;
 - iii. fabricating or falsifying research data;
 - iv. handing in a thesis or other work created by someone else.
2. An attempt to commit fraud is also seen as fraud under this regulation.
3. The surveyor or examiner will immediately notify the student if they are being suspected of fraud.
4. The surveyor or examiner can order the student to make material available if they are being suspected of fraud. Refusal to do so is equated with fraud.
5. If suspicion arises during the exam, the student will be allowed to finish the exam.
6. The examiner makes a report on the suspicion of fraud and makes this report available to the student and the Examination Board.
7. The Examination Board will start an investigation. The student will be allowed to send in a written response to the report in paragraph 6. The Examination Board will hear both the examiner and the student.
8. The Examination Board will decide on the matter within 20 working days after receiving the report stated in paragraph 6. The Examination Board will notify the student and examiner with a written statement of their decision. The 20 working day period can be extended with ten days.
9. The Examination Board declares, if fraud has been established, the exam, thesis, or work in question to be invalid.
10. The Examination Board will not award an adjudication if fraud has been established.
11. The Examination Board clearly states the establishment of fraud and the penalties in the student's file.
12. The Examination Board can determine that a student is not allowed to participate in one or more exams for at most a year and only if fraud has been established.
13. The Examination Board can determine that a student is not allowed to hand in a thesis or written work for at most a year, if fraud has been established.

14. The Examination Board can suggest that the Executive Board terminates the student's enrolment in case of severe fraud.
15. In case of fraud, the Dean of the Honours Academy can determine, after a suggestion by the Examination Board, that the student can no longer participate in the university or faculty Honours Academy.

Section 5. Study performance, support, advice and education evaluation

Article 5.1 Study performance and support

1. The faculty dean is responsible for recording student results in such a way that, upon request, the Examination Board can respond by providing the student with an overview of the progress of the study within a reasonable timeframe.
2. The dean is responsible for providing adequate student counselling.

Article 5.2 Binding study advice regulations

1. On behalf of the dean, the Committee on Binding Study Advice for First-Year Students (Commissie Studietoelates Eerste Jaar) will advise students on continuing their degree programme. This will occur at the end of the first year, but no later than 31 August, that the student has been registered for the propedeutic phase of the full-time Bachelor's degree programme as referred to in article 7.8b of the Act.
2. The propedeutic (foundation year) phase constitutes the curriculum of the first year of the Bachelor's programmes and consists of a study load of 60 EC.
3. The Committee on Binding Study Advice for First-Year Students shall issue a positive recommendation to students who have completed at least 39 EC of the first-year curriculum, as referred to in paragraph 2.
4. The Committee on Binding Study Advice for First-Year Students will advise students negatively on continuing their degree programme if a student does not meet the requirements referred to in paragraph 3, unless one or more of the personal circumstances as referred to in Article 5.4 of these regulations should play a role.
5. In case of a binding rejection, the Committee on Binding Study Advice for First-Year Students shall formulate a plan to inform the student of a binding negative study advice and provide the student with the opportunity to be heard before the binding study advice is issued.
6. In determining whether the required credits referred to in paragraph 3 have been achieved, exempted credits shall not be counted. Should more than 18 EC in exemptions have been granted, certain core programme components may be counted toward meeting the requirements referred to in paragraph 3.
7. The Committee on Binding Study Advice for First-Year Students will give binding advice on continuing their degree programme to students registered for a full-time programme after 31 January at the end of their second study year. The Committee on Binding Study Advice for First-Year Students will then advise students positively on continuing their degree programme if the propedeutic phase has been successfully concluded.

Students who switch degree programmes after 31 January within the Bachelor's programmes Chemistry, Molecular Life Sciences and Science, will receive the Binding Study Advice as referred to in paragraph 1 at the end of the first academic year.

8. The dean will be entitled to lay down additional rules for students who have registered for two degree programmes recognised as a dual degree programme under or pursuant to these Education and Examination Regulations.
9. Students who terminate their enrolment before 1 March will not receive binding study advice. If they re-enrol for the same programme in the following academic year, they shall receive the binding study advice at the end of the second year. The provisions of the second sentence of paragraph 7 shall apply accordingly.
10. A student may appeal the binding negative study advice with the Examination Appeals Board within six weeks. The appeal does not suspend the validity of the binding study advice.

Article 5.3 Preliminary recommendation

1. In anticipation of the advice referred to in Article 5.2, the Committee on Binding Study Advice for First-Year Students will make preliminary recommendations at the end of the first semester (no later than 28 February) to students on continuing their degree programmes on the basis of their results to date.
2. The preliminary recommendation is especially meant as a warning for students who have failed to make adequate progress. The students in question will be invited for an interview with the student advisor to discuss how study results could be improved or what other alternative programmes would be better suited to them.

Article 5.4 Personal circumstances

1. The Committee on Binding Study Advice for First-Year Students shall take into account personal circumstances in their binding study advice decision, as stated in Article 2.1 of the Act's Implementation Decree, insofar as these circumstances have been reported to the student advisor, a student dean, or another designated person, either by the student or by someone else on the student's behalf. The student may be asked to further substantiate or justify personal circumstance claims.
2. Only personal circumstances mentioned in or supported by the Act are eligible.

Article 5.5 Duration of the period of rejection

1. Students who have received a binding negative study advice may not re-enrol in the relevant Bachelor's programme for a period of three years, or for any other Bachelor's programmes that the dean has determined fully or partially share the first-year phase. In any case, this concerns the Bachelor's programmes in Chemistry, Molecular Life Sciences, and Science.
2. In the event a student should register again for the degree programme after the period referred to in paragraph 1, this registration will be considered as a first registration under this paragraph and the relevant provisions will apply in full.

Article 5.6 No binding negative advice or deferral of the decision

1. On the basis of the circumstances referred to in Article 5.4 of these regulations, the dean, having heard the Committee on Binding Study Advice for First-Year Students may decide not to attach binding consequences to the negative advice to students on continuing the degree programme. Having heard the Committee on Binding Study Advice for First-Year Students, the dean may also decide, on the basis of the circumstances referred to, to not yet attach binding consequences to the negative advice.
2. If binding advice not to continue the degree programme is not given pursuant to paragraph 1, the Committee on Binding Study Advice for First-Year Students will give their binding advice as referred to in Article 5.2 before the end of the second study year if, at that time, the student has not yet obtained the 60 EC of the propedeutic year.

Article 5.7 Method of education evaluation

Considering the care for quality in the institution, as described in the Quality Education Handbook by Radboud University, the dean oversees that the quality of education is systemically evaluated.

PART III PROGRAMME-SPECIFIC PROVISIONS

Section 6. Access to the degree programme and education

Article 6.1 Regulations Application and Selection

The Radboud University has set a fixed number of 200 students for the Bachelor's programme in Biology (further mentioned as: the programme). Candidates are considered for a spot by taking part in the procedure for application and selection. The regulations for 'Application and Selection Bachelor Biology' can be found on the website of the programme (<http://www.ru.nl/opleidingen/bachelor/biology/application-selection/>). The application and selection for the programme will, on behalf of the Executive Board, be carried out by the Committee Application Selection Biology.

General conditions:

1. The assignments belonging to the application procedure can only be completed and submitted once a year.
2. The test structure and assessment are the responsibility of the Committee Application Selection Biology.
3. In case that a candidate does not, not in time, not fully or not according to the required method meet the conditions in the regulations "Application and Selection Bachelor Biology" and/or comply to the rules that apply while taking the test, the Committee Application and Selection Biology can decide to not to assess the candidate's work.
4. In case fraud is detected, a candidate can immediately be excluded from the selection.
5. The results of the application assignments cannot be debated. There is no opportunity to inspect the assessment of the submitted application assignments.
6. After a candidate is selected for a spot, the candidate must directly start the programme in the following academic year.
7. In consecutive years, the candidate is allowed to register for the programme a maximum of three times. Application results cannot be transferred to a following academic year.
8. According to the regulations "Application and Selection Numerus Fixus Bachelor Programmes", the candidate is allowed to file an objection concerning the selection decisions to the Executive Board.
9. In case a situation appears that the regulations "Application and Selection Bachelor Biology" does not cover, the Committee Application and Selection Biology will make a decision on behalf of the Executive Board.
10. In case that the conditions in the regulations "Application and Selection Bachelor Biology" differ from the regulations "Application Radboud University" ("Inschrijven van de Radboud Universiteit"), and more specifically the regulations "Application and Selection Numerus Fixus Bachelor Programmes", the latter prevails.

Article 6.2 Requirements prior education

A candidate qualifies for the selection process of the programme if they

- a) have a diploma for pre-university education (VWO) (including the courses English, biology, physics, chemistry, and math A or B); or
- b) have a biology-related Bachelor's diploma for a university of applied sciences (HBO), or an equitable Bachelor's diploma for a university of applied sciences; or
- c) have a statement of admission based on the Colloquium Doctum of the programme; or
- d) have a foreign diploma that is equated to one of the above-mentioned demands.

Section 7. Structure and design

Article 7.1 Programme-specific learning outcomes

In addition to the general learning outcomes named in the general part of this EER, the Bachelor's programme in Biology expects that a Bachelor in Biology graduating in 2018-2019:

- (P1) is able to analyse current biological concepts critically, based on a broad knowledge and understanding of the functioning and the behaviour of living organisms (plants, animals, microorganisms), the levels of organisation within nature (molecule, cell, organ, organism, ecosystem), biological processes (evolution, development, adaptation);
- (P2) is able to indicate how biological knowledge and understanding comes into being, understands the method used to empirically examine theories and how empirically acquired information can lead to new insight;
- (P3) understands the possibilities and limitations of the use of sample systems in biological research;
- (P4) understands the relation between differing disciplines in biology, and has sufficient knowledge of i.e. math, physics, chemistry, and computer science, to apply these in biological research. The Bachelor is able to employ acquired knowledge in a multidisciplinary research environment;
- (P5) is able to apply a variety of vital technics that are relevant for biological research. The Bachelor is able to make new experimental technics their own;
- (P6) is able to formulate hypotheses concerning biological problems based on theoretical as well as practical knowledge; is able to develop and execute experiments to test these hypotheses. The bachelor is able to review and interpret the research outcomes, and to come up with a conclusion based on that information;
- (P7) is able to describe the results of the research in a report written in accordance with the general format used for scientific literature;
- (P8) is able to shape their own career, based on well contemplated choices in the bachelor and minor programme, followed by the master's, including specialisations, or followed by the work field;
- (A1) is able to gather and understand Dutch and English scientific literature, differentiate between primary and secondary information in the article, and is able to put the newly acquired knowledge in the right context with previously acquired information;
- (A2) is able to give a clear oral presentation on scientific work and research in the presence of a (wide-ranging) scientific audience;
- (A3) is able to work in a scientific team, carry out individual tasks and share obtained results;

- (A4) is able to discuss acquired biological knowledge with fellow researchers in biology, by means of written reports as well as in oral presentations;
- (A5) is able to reflect on their applicable knowledge and competence, form an opinion on the ethnic and social consequences of biological research, and defend that opinion in societal and scientific context;
- (A6) is able to reflect on their own actions, ambitions, skills, and perspectives.

Article 7.2 Programme language

Taking the step-by-step nature of the implementation of the new English taught Bachelor's programme in Biology into account, first year students will be taught in English; and exams will be taken in English in the academic year 2018-2019. Students that will start their second or third year of the programme in the academic year 2018-2019 will be taught in Dutch; and exams will be taken in Dutch. As exceptions, the following courses will be taught in English in the second and third year:

- MED-MIN16 Translational neuroscience
- NWI-BB017C Biochemistry and molecular biology II
- NWI-BB019B Immunology
- NWI-BB020B Adaptation physiology
- NWI-BB023B Animal cell biology
- NWI-BB024B Physiology of microorganisms
- NWI-BB025B Human pathology
- NWI-BB027C Applied and environmental microbiology
- NWI-BB028B History of biology
- NWI-BB034B Neurobiology
- NWI-BB036B Applied ecology
- NWI-BB039C Neurodevelopment
- NWI-BB043B Plant genome analysis
- NWI-BB047C Human embryology and developmental biology
- NWI-BB048B Endocrinology
- NWI-BB063B Neuroscience: from basics to clinic
- NWI-BB064B Functional genomics
- NWI-BB065B Pathophysiology of the kidney
- NWI-BB079C Water, health and development
- NWI-BB080B Neurophysiology of cognition and behaviour
- NWI-BB081B Cognitive neuroimaging
- NWI-BB083B Ecological theory and data analysis
- NWI-BB084B Molecular principles of development

- NWI-BB085B Brain and behaviour
- NWI-BB086 Genomics for health and environment
- NWI-BB087 Advanced population and evolution biology
- NWI-BB088 Biological invasions
- NWI-FC0042B Debating science: an introduction in 'Science in Society'
- NWI-MB021B Geographic information systems
- NWI-MB023C Man and Nature: Present, Past and Future
- NWI-MB024C Human and ecological risk assessment
- NWI-MOL053 Pharmacochimistry
- NWI-MOL054 Toxicology
- NWI-MOL055 Molecular basis of diseases
- NWI-MOL073 Comparative genomics
- NWI-MOL078 Nanobiotechnology
- NWI-MOL091 Green chemistry
- NWI-MOL101 Essentials of organic chemistry
- NWI-MOL104 Medical biotechnology
- NWI-MOL107 RNA structure and function

Article 7.3 Composition of the propedeutic phase

Subject to the general provisions of these EER, the degree programme comprises the following components (60 ec):

Course code	Course name	Ec
NWI-BP001B	Introduction of the Bachelor programme	0
NWI-BP003B	Evolution and development of plants	6
NWI-BP004C	Animal evolution and adaptation	6
NWI-BP006B	Histology	3
NWI-BP007B	Cellular biochemistry	6
NWI-BP010C	Molecular biology and recombinant DNA	3
NWI-BP012C	Statistics I	3
NWI-BP024C	Mathematics for biologists	3
NWI-BP027B	Biodiversity	6
NWI-BP030	Ecology	6
NWI-BP031	Genomics and big data	6
NWI-BP032	Human biology	6

NWI-BP033	Microbiology	6
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Article 7.4 Composition of the core programme (post-propedeutic phase)

Note: the second and third year of the programme will be in Dutch in 2018-2019, with the exception of the courses named in article 7.2

1. Compulsory components (39 ec)

The post-propedeutic phase of the programme comprises of the following compulsory components:

Course code	Course name	Ec
NWI-BB005B	Dierfysiologie	6
NWI-BB028B	History of biology	3
NWI-BB068B	Biofysica	3
NWI-BB069B	Plantenfysiologie	6
NWI-BB070B	Biologie van micro-organismen	3
NWI-BB071B	Mens en milieu	3
NWI-BB072C	Bacheloressay	6
NWI-BB076B	Bachelorportfolio Biowetenschappen (N.B. Dit onderdeel start in de propedeutische fase.)	3
NWI-FCEM02B	Schrijven over wetenschap	3
NWI-FFIL100	Philosophy and ethics of science	3

2. Differentiation phase (63 ec)

The post-propedeutic phase of the programme contains an elective space of 63 ec. Students must fill this space with courses from list BB2 (see appendix) worth a minimum of 30 ec, and reach the 63 ec by choosing a minor or courses from lists BB2 and BB3 (see appendix).

The following minors and corresponding courses are open to Biology students, in addition to the minors offered by the Radboud University and the elective minor. In case a student chooses the minor Medical Biology, the remaining 33 ec ought to be chosen from lists BB2 and BB3.

i. Medical Biology, 30 ec out of the following courses:

Course code	Course name	Ec
NWI-BB017C	Biochemistry and molecular biology II	6
NWI-BB019B	Immunology	6
NWI-BB021B	Neurobiofysica	6

NWI-BB023B	Animal cell biology	6
NWI-BB025B	Human pathology	6
NWI-BB034B	Neurobiology	6
NWI-BB039C	Neurodevelopment	6
NWI-BB047C	Human embryology and developmental biology	6
NWI-BB048B	Endocrinology	6
NWI-BB063B	Neuroscience: from basics to clinic	6
NWI-BB064B	Functional genomics	6
NWI-BB065B	Pathophysiology of the kidney	6
NWI-BB080B	Neurophysiology of cognition and behaviour	6
NWI-BB081B	Cognitive neuroimaging	6
NWI-BB084B	Molecular principles of development	6
NWI-BB085B	Brain and behaviour	6
NWI-BB086	Genomics for health and environment	12
NWI-MOL104	Medical biotechnology	6
MED-MIN16	Translational neuroscience	12

ii. Medicine (30 ec), MED-MINGNK, consisting of the following courses:

Course code	Course name	Ec
	1. Mechanismen van gezondheid en ziekte (MGZ) deel 1	7
	2. Mechanismen van gezondheid en ziekte (MGZ) deel 2	7
	3. Praktijk en principes van de geneeskunde (PPG) deel 1	2
	4. Praktijk en principes van de geneeskunde (PPG) deel 2	3
	5. Context, Science and Innovation (CSI)	4
	6. Medisch professionele vorming en patiëntcontacten (SmP)	1
	7. Module Zorgstage	2
	8. Anatomie: Hoofdlijnen Functionele Morfologie	3
	9. Farmacologie	1

Participation in the minor Medicine is only allowed after selection; the indicated courses can only be chosen as part of the complete minor, and thus not separately.

3. Free electives (6 ec)

The post-propedeutic phase of the programme contains a free elective space of 6 ec, to be filled with testable courses on academic bachelor's level (provided with a course code). A maximum of 3 ec of the free elective space can be used to expand the Bachelor's internship (NWI-BB-STAGE).

4. Bachelor's internship (12 ec)

The internship must take place at a department from list BB1 (see appendix) or, alternatively, at a different research department provided that permission is given in writing by the Examination Board and an internal examiner from a department from list BB1. The assessment of the Bachelor's internship will be based on the internship evaluation form for the Bachelor's internship of the programme.

Article 7.5 Order of examination

Students cannot participate in classes and exams of the following components before the examination of the given component is successfully completed.

- Free electives after finishing propedeutic phase Biology.

Section 8. Transition provisions

Students who have deficiencies in their propedeutic phase of the programme before 2018-2019, can use article 4.1 paragraph 3.

PART IV FINAL PROVISIONS

Section 9. Final provisions

Article 9.1 Safety net scheme and hardship clause

3. In any situations which are not fully or clearly covered by these regulations, the decision lies with the dean.
4. Any situations which these regulations may result in unreasonable hardship for individual students, the Examination Board or the dean is authorised to make an exception to the provisions in the Education and Examination Regulations.

Article 9.2 Adoption and amendment

1. Notwithstanding the provisions in Article 7 of the Structure Regulations, these regulations are drawn up or amended by the dean after receiving advice from the programme committees and after having obtained approval from the faculties' general assembly.
2. An amendment to these regulations cannot enter into force in the current academic year, unless the situation has the potential to make it extremely difficult for the student to participate in the programme.
3. In derogation from paragraph 1, the dean is authorised to drop elective components of the curriculum should the circumstances be deemed impossible to offer the course.

Article 9.3 Entry into force

These regulations shall enter into force on 1 September 2018.

Article 9.4 Publication

1. The dean is responsible for publishing these regulations and any amendments thereto.
2. Interested parties may consult these regulations through the prospectus.

As established by the dean on June 20, 2018.

APPENDIX

List BB1 Approved research departments

IWWR:

Animal Ecology and Physiology
Aquatic Ecology and Environmental Biology
Ecological Microbiology
Environmental Science
Experimental Plant Ecology
Plant Science

FNWI-RIMLS:

Cell Biology
Molecular Biology
Molecular Developmental Biology

Radboudumc:

Biochemistry
Cell biology
CMBI
Dermatology
Gynaecology
Hematology
Human genetics
Laboratory medicine (Genetic, Endocrine and Metabolic Disorders)
Maag-, darm- en leverziekten
Medical microbiology
Nephrology
Orthodontics and craniofacial biology (Dentistry department)
Pathology
Paediatrics
Pharmacology and toxicology

Physiology

Rheumatology

Systematic review center for laboratory animal experimentation (SYRCLE)

Tumor immunology

Urology

DI:

Biophysics

Cognitive neuroscience

Cognitive psychiatry

Neurogenetics of speech and language

Molecular animal physiology

Molecular neurobiology

Molecular neurogenetics

Neurology

Neurophysiology

Neuropsychology and rehabilitation psychology

IMM:

Biomolecular chemistry

Molecular and laser physics

List BB2 Electives educational institute Biosciences

Cursuscode	Cursusnaam	Ec
NWI-BB011B	Biologie en samenleving	3
NWI-BB017C	Biochemistry and molecular biology II	6
NWI-BB018C	Ecofysiologie van planten	6
NWI-BB019B	Immunology	6
NWI-BB020B	Adaptation physiology	6
NWI-BB021B	Neurobiofysica	6
NWI-BB022B	Systeemecologie	6
NWI-BB023B	Animal cell biology	6
NWI-BB024B	Physiology of microorganisms	6
NWI-BB025B	Human pathology	6
NWI-BB027C	Applied and environmental microbiology	6
NWI-BB032B	Biotechnology of plants (not taught in 2018-2019)	6
NWI-BB034B	Neurobiology	6
NWI-BB036B	Applied ecology	6
NWI-BB039C	Neurodevelopment	6
NWI-BB043B	Plant genome analysis	6
NWI-BB047C	Human embryology and developmental biology	6
NWI-BB048B	Endocrinology	6
NWI-BB051B	Applied bioinformatics (not taught in 2018-2019)	6
NWI-BB060B	Dierecologie	6
NWI-BB063B	Neuroscience: from basics to clinic	6
NWI-BB064B	Functional genomics	6
NWI-BB065B	Pathophysiology of the kidney	6
NWI-BB077B	Statistiek II	3
NWI-BB079C	Water, health and development	3
NWI-BB080B	Neurophysiology of cognition and behaviour	6
NWI-BB081B	Cognitive neuroimaging	6
NWI-BB083B	Ecological theory and data analysis	6
NWI-BB084B	Molecular principles of development	6

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NWI-BB085B	Brain and behaviour	6
NWI-BB086	Genomics for health and environment	12
NWI-BB087	Advanced population and evolution biology	6
NWI-BB088	Biological invasions	6
NWI-MB021B	Geographic information systems	6
NWI-MB023C	Man and Nature: Present, Past and Future	6
NWI-MB024C	Human and ecological risk assessment	6
NWI-MOL104	Medical biotechnology	6
MED-MIN16	Translational neuroscience	12

List BB3 Remaining electives

Course code	Course name	Ec
MAN-BKV55	Duurzaam ondernemen	6
NWI-FC0042B	Debating science: an introduction in 'Science in Society'	3
NWI-GCSE007	Beleid, ondernemerschap & innovatie	3
NWI-GCSE008	Student company	6
NWI-FNWI006	Inleiding educatie	3
NWI-MOL053	Pharmacochemistry	6
NWI-MOL054	Toxicology	6
NWI-MOL055	Molecular basis of diseases	6
NWI-MOL066	Structure, function and bioinformatics	6
NWI-MOL073	Comparative genomics	3
NWI-MOL075	Bioinformatica A	3
NWI-MOL078	Nanobiotechnology	6
NWI-MOL091	Green chemistry	3
NWI-MOL101	Essentials of organic chemistry	6
NWI-MOL104	Medical biotechnology	6
NWI-MOL107	RNA structure and function	6
NWI-GCSE002	Energy and Sustainability	3