Education and Examination Regulation
2019-2020

Bachelor Biology
TABLE OF CONTENTS

PART I  General provisions

Section 1.  General provisions

Article 1.1  Applicability of these regulations

Article 1.2  Definition of terms

Part II  General part

Section 2.  Admission to the degree programme and education

Article 2.1  Admission and admission requirements

Article 2.2  Substitute requirements for insufficient prior education

Article 2.3  Language requirements

Section 3.  Structure and design

Article 3.1  Final examination, degree and distinctions

Article 3.2  General learning outcomes

Article 3.3  Curriculum

Article 3.4  Sequence of education and interim examinations

Article 3.5  Type of interim examination

Article 3.6  Exemptions

Article 3.7  Term of validity of successfully completed interim examinations

Article 3.8  Elective programme

Section 4.  Testing

Article 4.1  Frequency of interim examinations

Article 4.2  Registration for course examinations

Article 4.3  Confirmation of examination results

Article 4.4  Publication of results

Article 4.5  Right of inspection and explanation

Article 4.6  Confirmation of the result of the final examination

Article 4.7  Awarding distinctions

Section 5.  Study performance, guidance, counselling and evaluation of education

Article 5.1  Study performance and support

Article 5.2  Binding study advice regulations

Article 5.3  Preliminary study advice

Article 5.4  Personal circumstances
Article 5.5. Duration of the period of rejection ................................................................. 15
Article 5.6. No negative binding study advice or deferral of the decision ..................... 16
Article 5.7. Method of evaluation of education ................................................................. 16

PART III Programme-specific part .................................................................................. 17
Section 6. Admission to the degree programme and education .......................................... 17
  Article 6.1 Application and selection regulations ............................................................. 17
  Article 6.2 Prior education requirements ........................................................................ 18
Section 7. Structure and design ......................................................................................... 18
  Article 7.1 Programme-specific learning outcomes ........................................................ 18
  Article 7.3 Composition of the first year of the programme ............................................ 19
  Article 7.4 Composition of the second and third year of the programme ....................... 20
  Article 7.5 Sequence of exams ....................................................................................... 22
Section 8. Transitional provisions ..................................................................................... 22

PART IV Final provisions .................................................................................................. 23
Section 9. Final provisions ............................................................................................... 23
  Article 9.1 Safety net scheme and hardship clause ......................................................... 23
  Article 9.2 Establishment and amendments .................................................................... 23
  Article 9.3 Entry into force .............................................................................................. 23
  Article 9.4 Publication .................................................................................................... 23

APPENDIX ...................................................................................................................... 24
List BB1 Elective courses offered by the Biosciences educational institute ....................... 24
List BB2 Other elective courses ....................................................................................... 25
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 (the degree programme in which the student is enrolled is hereinafter referred to as “the programme”), including all their components, of the Faculty of Science. These EER outline the applicable procedures, rights and obligations concerning teaching, interim examinations and final examinations.
2. The present regulations apply to all students enrolled in the programme in the academic year 2019-2020. Students who started the degree programme before 1 September 2016 and have been continuously enrolled in this programme may appeal to the EER which was valid at the time of their initial enrolment in the programme.
3. Course components provided by a different faculty or institution that are followed as part of the degree programme are subject to the rules applicable at that faculty or institution. Components offered by the Faculty of Science are at all times subject to the regulations described in at least one of the EERs of the Faculty of Science.
4. The faculty offers the following Bachelor’s programmes:
   a. Biology;
   b. Chemistry;
   c. Computing Science;
   d. Molecular Life Sciences;
   e. Physics and Astronomy;
   f. Science;
   g. Mathematics.
5. The degree programmes have a study load of 180 EC.
6. All degree programmes are offered exclusively as full-time programmes.
7. The programmes Biology, Chemistry, Computing Science and Molecular Life Sciences are taught in English. The other programmes have English components. An overview of this is provided in Article 7.2.

Article 1.2  Definition of terms
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 clause 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, clause 1 of the Act;
b. Component: an educational unit as referred to in Article 7.3, clauses 2 and 3 of the Act;
c. Student: anyone enrolled at Radboud University for participation in a degree programme or in the partial examinations or final examinations of a 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 clause 2 under D of the Act;
f. Interim examination: an examination testing the knowledge, understanding or skills of the student in relation to a certain unit of study, as well as the assessment of the results of this examination, which is administered by at least one examiner designated by the Examining Board;
g. Partial examination: an examination of the knowledge, insight and skills of the student, as well as the assessment of the results of the examination, which in conjunction with one or more other partial examinations constitute the interim examination as referred to under clause f. In these regulations, when the term examination is used this can also be read as partial examination, unless explicitly indicated otherwise;
h. Resit: a new opportunity to take a particular examination as referred to in Article 7.10 clause 1 of the Higher Education and Research Act (WHW). In these regulations, when the term examination is used this can also be read as resit, unless explicitly indicated otherwise;
i. Final examination: an assessment, on the basis of which the Examining Board determines whether all the components pertaining to the Bachelor’s programme have been completed successfully. The Examining Board may decide that the final examination also includes an investigation by the Examining Board into the knowledge, insight and skills of the candidate, as well as the assessment of the outcomes of that investigation (in accordance with Article 7.10 WHW);
j. Fraud: any behaviour or negligence on the part of the student that, by nature, is directed towards making it partly or entirely impossible to properly assess the knowledge, insights, and skills of the student or of another student. The Regulations on Fraud during Interim Examinations and Examinations are included as an appendix to these EER;
k. Examining Board: the examining board of a degree programme, established in accordance with Article 7.12 of the Act. Also see the Radboud University Structural Regulations;
l. Examiner: the person designated by the Examining Board to administer the interim examinations, in accordance with Article 7.12 of the Act;
m. EC: European Credits, i.e. the study load unit in accordance with the European Credit Transfer System;
n. Work day: Mondays to Fridays, with the exception of official holidays and any other days designated by Radboud University as collective holidays;
o. Awarding of the degree certificate: the formal confirmation that all the examination requirements have been met;

p. Study guide: the guide for a particular degree programme of the Faculty of Science, containing specific information for the Bachelor’s programme;

q. The university: Radboud University;

r. The faculty: The Faculty of Science;

s. Minor: a cohesive selection of components;

t. Free elective: a freely-selected, academic, assessable component;

u. Dual Bachelor’s programme: excellence programme in which the student takes two Faculty of Science Bachelor’s programmes simultaneously;

v. Rules and regulations: the rules in which the Examining Board explain how it works in accordance with the Education and Examination Regulations.
PART II   GENERAL PART

Section 2. Admission to the degree programme and education

Article 2.1  Admission and admission requirements
1. To be admitted to the programme, the student must meet the statutory (additional) prior education requirements set out by the Act.
2. Decisions regarding admission are made by the education institute on behalf of the Dean.
3. The programme-specific part of these EER lists the admission requirements the student must meet to be admitted to the degree programme.

Article 2.2  Substitute 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 clause 5 of the Act, on the condition that comparable requirements have been met in terms of content, 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 Dutch is required to participate in the programme and to sit for examinations 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.
   In certain cases, the education institute may assess whether a student is sufficiently proficient in Dutch.
2. A sufficient command of the English language is required to participate in the programme and to sit for examinations in English. This requirement is met if the student:
   a. comes from one of the following countries: Australia, Canada (with the exception of Quebec), Ireland, New Zealand, Singapore, the United Kingdom, the United States and South Africa; or
   b. is in possession of a pre-university education (VWO) diploma; or
   c. is in possession of a pre-university education diploma obtained at an English-language institution in the Netherlands or elsewhere; or
   d. has a pre-university education diploma obtained at a German secondary education institution, with English as Grundkurs; or
   e. has a Bachelor’s diploma from a university of applied sciences (HBO); or
   f. has a Bachelor’s diploma from a Dutch university; or
   g. in the opinion of the programme meets the requirements; or
h. has achieved a sufficient score on one of the following English language tests:
   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 none of the sub-scores below 18;
   iii. the IELTS with a score of 6.5 or higher, where none of the sub-scores are below 6.0;
   iv. the Cambridge CAE or CPE with a score of C or higher.

Section 3. Structure and design

Article 3.1 Final examination, degree and distinctions
1. All Bachelor’s programmes conclude with a Bachelor’s examination.
2. The student who has passed the examination of the Bachelor’s degree programme will be awarded a Bachelor of Science (MSc) degree.
3. The degree referred to in the second clause is exclusively awarded if the student has earned at least half of the EC for his/her degree programme at this university.
4. The Examining Board can award a distinction to a student who has successfully passed the degree programme examination. The rules for awarding a distinction can be found in Article 4.7 of these 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. Prepare for further study or future career.
2. Students who have completed one of the faculty Bachelor’s programmes as referred to in Article 7.10a, clause 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 clause 1.
2. The Bachelor’s programmes include a component with a study load of 3 EC for the purpose of reflecting on study performance and planning, as well as boosting the development of academic skills.
3. The degree programme includes 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 to students of a specific Bachelor’s programme, this is mentioned in the programme-specific part of these EER.

6. Minors offered by Radboud University can be found in the study guide. The approval of the Examining Board must be requested if a student wants to do a minor which is not offered by Radboud University. 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 degree 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 degree programme includes an individual final aptitude test (Bachelor’s thesis) with a study load of 12 EC.

9. Notwithstanding the provisions in clause 8, the Bachelor’s thesis can be expanded. In all cases in which an expansion is possible, this will be stated in the programme-specific part of these EER.

10. The composition of the Bachelor’s programme compiled by the student must be presented for approval to the Examining Board no later than six months before the expected examination date. The Examining Board will decide whether to grant approval within a month of receiving the submitted programme.

11. A student is permitted to add components to the examination programme. These components are considered extra-curricular and do not count towards the determination of the distinction.

**Article 3.4 Sequence of education and interim examinations**

1. For admission to the components of the second and third years of the degree programme, students must have successfully completed the first year of the relevant degree programme.

2. Contrary to the first clause, students who do not complete all components of the first year may already take interim examinations of the next years of the degree programme if they have earned a minimum of 39 EC during the first year.

3. At the request of the student, the Examining Board may allow him/her to participate in certain components and take certain interim examinations in the second and third years of the degree programme if they have earned fewer than 39 EC in the first year. This requires the student to create a plan in consultation with the student advisor. On the basis of this plan, the Examining Board will decide on the period of validity of the granted access.
4. The student may not start the final aptitude assessment (Bachelor’s thesis) before a minimum of 120 EC of the degree programme have been obtained, which includes the components of the first year.

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 partial examination and may consist of the following assessment forms:
   a. Written test (paper or digital);
   b. Oral test;
   c. Presentation;
   d. Skill test;
   e. The creation of a discipline-specific product and/or assignment.

2. Prior to the commencement of the academic year, information will be provided in the study guide for each individual component regarding the way in which the interim examinations will be administered. At the request of the student or the examiner, the Examining Board may allow an interim examination to be administered in a form other than stated above, if this is not to the detriment of the student.

3. In cases in which an interim examination has admission requirements, the admission requirements will be published in the study guide before the start of the academic year. This requires the permission of the programme coordinator. Notwithstanding the above provisions, the admission requirements for the courses completed in the fourth period may still be changed up until the start of the second period, with the permission of the programme coordinator.

4. Students with disabilities are given the opportunity to take interim examinations in a manner appropriately suited to their disability. The Examining 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 Education and Examination Administration of the faculty no later than two weeks before the interim examination.

5. For oral examinations, no more than one person is tested simultaneously, unless decided otherwise by the Examining Board.

6. An oral interim examination is not public, unless the Examining Board has deemed otherwise in exceptional cases.

7. An audio recording is made of oral examinations. As an alternative to an audio recording, a second examiner or a designated observer may be present.
Article 3.6  Exemptions

1. At the request of the student and having heard the examiner involved, the Examining Board may exempt the student, either partially or fully, from sitting for an interim examination if the student:
   a. Has completed a course 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 degree programme allows group exemptions, then these are included in the programme-specific part of these regulations.

3. Only one grade for each course may be registered for a single degree programme. If a course is also part of another examination programme, this course will be listed on the diploma as an exemption.

4. Students who were first enrolled after 1 September 2017 can never have more than 70 EC of exemptions, as stated in clause 1.

5. All results for a degree programme achieved before the date of the first enrolment are stated as exemptions on the degree programme's diploma. These exemptions do not count towards the 70 EC as stated in clause 4 if the courses are only included in one examination programme.

6. Exemptions as referred to in clause 1 cannot be granted for the Bachelor’s thesis.

7. As an exception to the provision in clause 6, a student who does a dual 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

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

2. Results obtained for interim examinations are valid at least until the end of the academic year. The lecturer can decide to extend the term of the validity for the result of interim examinations.

Article 3.8  Elective programme

The programme’s Examining Board determines whether to grant permission for a student to take an elective programme as meant in Article 7.3d of the Act. The Examining Board will verify whether the programme fits within the domain of the degree programme under the authority of the Examining Board, whether it is sufficiently coherent, and whether the level is adequate in the context of the programme’s exit qualifications.

Section 4. Testing

Article 4.1  Frequency of interim examinations
1. Students are given the opportunity to take the examinations at least twice per academic year.

2. Notwithstanding the provisions of clause 1, a degree programme coordinator may decide to only offer one opportunity for an interim examination or partial examination. If only one opportunity is given to take an interim examination or partial examination, this is stated in the programme study guide before the start of the academic year.

3. Notwithstanding the provision in the first clause, 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 a particular academic year.

4. If a certain component is not given in a particular academic year, the opportunity to take the corresponding examination will be offered once in that academic year, as long as the interim examination is administered in written or oral form.

**Article 4.2  Registration for course examinations**

1. Students who register through OSIRIS for courses are also automatically registered for the first interim examination opportunity in the relevant academic year. This does not apply to students whose enrolment has not yet been completed.

2. The student must register for an interim examination in accordance with the applicable guidelines and instructions, no later than five days before the interim examination or resit date.

3. A successfully passed examination may be taken again.

**Article 4.3  Confirmation of 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 numbers or half numbers. However, a grade of 5.5 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 the educational component has been successfully completed. In addition to results in the form of a grade, the assessments “completed”, “not completed”, “satisfactory”, “not satisfactory” and “good” may also be awarded.

2. Notwithstanding the provisions of clause 1, partial examinations may also be graded with one decimal point on a 10-point scale. Rounding off of grades takes place exclusively for the final grade of the component.

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

**Article 4.4  Publication of results**
1. The examiner shall determine the result of a Bachelor’s thesis within 15 working days after its submission via http://thesissubmission.science.ru.nl.

2. The examiner shall determine the result of an oral examination within 2 working days of the date that it was administered.

3. The examiner shall determine the result of a written interim examination within 10 working days of the date it was administered for interim examinations in the first year of the degree programme, and within 15 working days for interim examinations in the other years of the degree programme. 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.

4. Contrary to the provisions in clause 2, the examiner shall determine the result of a written interim examination in the fourth period no later than 9 days before the scheduled date of the corresponding resit. The examiner shall determine the result of a written resit examination in the fourth period within 5 working days of the date it was administered.

5. In special cases, the Examining Board may extend the term in which the result must be determined as referred to in clause 3 by a maximum of 10 working days. This is not possible for the interim examinations in the second period of the first year and for the interim examinations in the fourth period.

6. In this statement of the result of an interim examination, the student is also 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.

7. A student may submit an appeal of a decision by the Examining Board to the Examination Appeals Board within six weeks.

**Article 4.5 Right of inspection and explanation**

1. Within at least 30 working 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 clause 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 Examining 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 clause 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. For
examinations in the fourth period, the student may view his/her work until one working day before the resit.

5. The examiner 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. Examinations are scheduled each month.

3. The Examining 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. The result of the examination is determined by the Examining Board within five weeks following the student’s request. If the examination took place in July, the results will be determined no later than 31 August. Where needed in relation to entry requirements for a subsequent programme or the acceptance of a job, a statement can be released within 5 days indicating that the student has met the requirements of the examination. This is only possible if the student has met the criteria specified in clause 1.

4. Prior to determining the result of the final examination, the Examining 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 to which 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 Examining 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 assessments of all components referred to in clause 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 clause 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 from 1 to 10, with the exception of extra-curricular components.
4. The number of EC of the component referred to in clause 3 shall serve as the weighting factor for the calculation of the weighted average result, unless stipulated otherwise in the programme-specific part of these regulations.

5. The distinction shall not be awarded if more than 10 percent 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 Examining Board decides otherwise, stating the reasons for this decision.

Section 5. Study performance, guidance, counselling and evaluation of education

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 Examining Board can respond by providing the student with an overview of the progress of the study programme 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 Studieadvies 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 full-time Bachelor’s degree programme as referred to in Article 7.8b of the Act.

2. The Committee on Binding Study Advice for First-Year Students shall issue a positive advice to students who have completed at least 39 EC of the first-year curriculum.

3. The Committee on Binding Study Advice for First-Year Students will issue a negative advice to students if a student does not meet the requirements referred to in clause 2, unless one or more of the personal circumstances as referred to in Article 5.4 of these regulations are applicable.

4. 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 negative binding study advice and provide the student with the opportunity to be heard before the binding study advice is issued.

5. In determining whether the required credits referred to in clause 2 have been achieved, exempted credits shall not be counted. Should exemptions have been granted, components from other years of the degree programme that were passed in the current year can be counted toward meeting the requirements referred to in clause 2, to a maximum of the number of EC for which exemptions were granted.
6. Notwithstanding clause 5, ECs for which exemptions were granted based on components that are passed in the current year are counted if the student is simultaneously enrolled in two Bachelor’s degree programmes at the faculty.

7. If students have registered for a full-time programme after 31 January, the Committee on Binding Study Advice for First-Year Students will give a binding study advice at the end of their second study year. The Committee on Binding Study Advice for First-Year Students will give a positive advice to students if all components from the first year are concluded successfully.

8. 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 clause 1 at the end of the first academic year.

9. The dean will be entitled to establish additional rules for students who have registered for a dual Bachelor’s programme.

10. Students who terminate their enrolment before 1 March will not receive a study advice. If they re-enrol for the same programme in the following academic year, they will receive the binding study advice at the end of the relevant academic year. The provisions of the second sentence of clause 7 shall apply accordingly.

11. A student may appeal the negative binding 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 study advice

1. In anticipation of the advice referred to in Article 5.2, the Committee on Binding Study Advice for First-Year Students will issue a preliminary study advice at the end of the first semester (no later than 28 February) on the basis of the results of the student to date.

2. The preliminary study advice is intended 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 their 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 claims of personal circumstances.

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 negative binding 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. In any case, this concerns the Bachelor’s programmes in Chemistry, Molecular Life Sciences, and Science.

2. In the event that a student registers again for the degree programme after the period referred to in clause 1, this registration will be considered to be the first registration for the purposes of this section.

Article 5.6. **No negative binding study 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 a binding rejection to the negative study advice. Having heard the Committee on Binding Study Advice for First-Year Students, the dean may also decide to not yet attach a binding rejection to the negative study advice, on the basis of the circumstances referred to in Article 5.4.

2. If a negative study advice is not yet subject to a binding rejection pursuant to clause 1, the Committee on Binding Study Advice for First-Year Students will issue a binding rejection as stipulated in Article 5.2 before the end of the second study year if, by that time, the student has yet to obtain the 60 EC from the first year.

Article 5.7. **Method of evaluation of education**

In compliance with the quality assurance system of the university as described in the *Handboek Kwaliteitszorg Onderwijs Radboud Universiteit* (Radboud University quality assurance manual), the dean shall ensure that the education of the degree programmes is systematically evaluated.
PART III PROGRAMME-SPECIFIC PART

Section 6. Admission to the degree programme and education

Article 6.1 Application and selection regulations

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 for Biology Bachelor’s” 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 be carried out by the Biology Application and Selection Committee, on behalf of the Executive Board.

General provisions:

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 Biology Application and Selection Committee.
3. If a candidate does not fully, not in time, or not according to the required method, meet the conditions in the regulations “Application and selection for Biology Bachelor’s” and/or does not comply with the rules that apply while taking the test, the Biology Application and Selection Committee can decide to not assess the candidate’s work.
4. In case fraud is detected, a candidate may 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 for Numerus Fixus Bachelor’s Programmes”, the candidate is allowed to file an objection concerning the selection decisions to the Executive Board.
9. In case a situation occurs that is not covered by the regulations “Application and selection for Biology Bachelor’s”, the Biology Application and Selection Committee will make a decision on behalf of the Executive Board.
10. In instances in which the conditions in the regulations “Application and selection for Biology Bachelor’s” differ from the regulations “Registration at Radboud University” (Inschrijven van de Radboud Universiteit), and more specifically the regulations “Application and Selection for Numerus Fixus Bachelor’s Programmes”, the latter shall prevail.
**Article 6.2 Prior education requirements**

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

1. have a diploma from pre-university education (VWO) (including the courses English, Biology, Physics, Chemistry, and Math A or B); or
2. have a biology-related Bachelor’s diploma from a university of applied sciences (HBO) or an equivalent diploma from a university of applied sciences; or
3. have an admission statement based on the Colloquium Doctum of the programme; or
4. have an international diploma that is equivalent to one of the above-mentioned qualifications.

**Section 7. Structure and design**

**Article 7.1 Programme-specific learning outcomes**

In addition to the general learning outcomes mentioned in the general part of these EER, the Bachelor’s programme in Biology expects that a bachelor in Biology graduating in 2019-2020:

- (P1) is able to analyse current biological concepts critically, based on a broad knowledge and understanding of the functioning and behaviour of living organisms (plants, animals, microorganisms), the levels of organisation within nature (molecule, cell, organ, organism, ecosystem), and 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 model systems in biological research;
- (P4) understands the relation between differing disciplines in biology and has sufficient knowledge of fields such as math, physics, chemistry, and computer science in order 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 techniques that are relevant for biological research and is able to make new experimental techniques their own;
- (P6) is able to formulate hypotheses concerning biological problems based on theoretical and practical knowledge and is able to develop and conduct 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 research results 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’s and minor programme, followed by the Master’s programme, including specialisations, or followed by working in the professional field;
- (A1) is able to gather and understand Dutch and English scientific literature, differentiate between primary and secondary research in the article, and is able to put the newly acquired knowledge in the right context with previously acquired knowledge;
- (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 the results;
- (A4) is able to discuss acquired biological knowledge with fellow biology researchers, by means of written reports as well as through oral presentations;
- (A5) is able to reflect on their applicable knowledge and competence, form an opinion on the ethic and social consequences of biological research, and defend that opinion in a societal and scientific context;
- (A6) is able to reflect on their own actions, ambitions, skills, and perspectives.

Article 7.2 Programme language

Accounting for the step-by-step nature of the implementation of the new English taught Bachelor’s programme in Biology, first and second year students will be taught in English in the academic year 2019-2020 and their exams will be taken in English. Students in the third year of the programme in the academic year 2019-2020 will be taught in English and their exams will be taken in English.

As exceptions to the above provisions, the following courses will be taught in both Dutch and English in the second year of the degree programme:

- FCEM02B Schrijven over Wetenschap / Writing about Science

Additionally, the following courses will be taught in Dutch in the third year of the degree programme:

- BB011B Biologie en Samenleving
- BB022B Systeemecologie
- FNWI006 Inleiding Educatie
- BB076B Bachelor Portfolio

Article 7.3 Composition of the first year of the programme
Subject to the general provisions of these EER, the degree programme consists of the following compulsory components (60 EC):

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWI-BP001B</td>
<td>Introduction of the Bachelor Programme</td>
<td>0</td>
</tr>
<tr>
<td>NWI-BP003B</td>
<td>Evolution and Development of Plants</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP004C</td>
<td>Animal Evolution and Adaptation</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP006B</td>
<td>Histology</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BP007B</td>
<td>Cellular Biochemistry</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP010C</td>
<td>Molecular Biology and Recombinant DNA</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BP012C</td>
<td>Statistics I</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BP024C</td>
<td>Mathematics for Biologists</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BP027B</td>
<td>Biodiversity</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP030</td>
<td>Ecology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP031</td>
<td>Genomics and Big Data</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP032</td>
<td>Human Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BP033</td>
<td>Microbiology</td>
<td>6</td>
</tr>
</tbody>
</table>

**Article 7.4 Composition of the second and third year of the programme**

Please note: In 2019-2020, the second and third year of the programme will be taught in English, with the exception of the courses listed in Article 7.2.

1. **Compulsory components (39 EC)**

The second and third year of the programme consists of the following compulsory components:

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWI-BB005B</td>
<td>Dierfysiologie</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB028B</td>
<td>History of Biology</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB068B</td>
<td>Biofysica</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB069B</td>
<td>Plantenfysiologie</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB070B</td>
<td>Biologie van micro-organismen</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB071B</td>
<td>Mens en milieu</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB072C</td>
<td>Bacheloressay</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB076B</td>
<td>Bachelorportfolio Biowetenschappen</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td>(Note: This component starts in the first year)</td>
<td></td>
</tr>
<tr>
<td>NWI-FCEM02B</td>
<td>Schrijven over wetenschap / Writing about Science</td>
<td>3</td>
</tr>
<tr>
<td>NWI-FFIL100</td>
<td>Philosophy and Ethics of Science</td>
<td>3</td>
</tr>
</tbody>
</table>
2. **Differentiation phase (63 EC)**

The second and third year of the programme contain an elective space of 63 EC. Students must fill this space with courses from list BB1 (see appendix) worth a minimum of 30 EC. The additional 33 EC will be achieved by choosing a minor or courses from lists BB1 and BB2 (see appendix).

In addition to the minors offered by Radboud University and the elective minor, the following minors and corresponding courses are open to Biology students. The Medical Biology minor only applies to third-year students. If a student chooses the Medical Biology minor, the remaining 33 EC must be chosen from lists BB1 and BB2.

Note: Due to a revision of the curriculum, the following courses are mutually exclusive due to overlapping content: Animal Cell Biology (BB023B) and Cellular Biochemistry (BP007C), Neurons and Synapses (BB094) and Neurobiology (BB034B), Brain and Behaviour (BB085B) and Neural Basis of Cognition and Perception (BB092), Statistiek II (BB077B) and Statistics II (BB093).

i. **Medical Biology, 30 EC of the following courses:**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWI-BB017C</td>
<td>Biochemistry and Molecular Biology II</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB019B</td>
<td>Immunology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB021B</td>
<td>Neurofisica</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB023B</td>
<td>Animal Cell Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB025B</td>
<td>Human Pathology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB034B</td>
<td>Neurobiology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB039C</td>
<td>Neurodevelopment</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB047C</td>
<td>Human Embryology and Developmental Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB048B</td>
<td>Endocrinology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB063B</td>
<td>Neuroscience: from Basics to Clinic</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB064B</td>
<td>Functional Genomics</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB065B</td>
<td>Pathophysiology of the Kidney</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB080B</td>
<td>Neurophysiology of Cognition and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB081B</td>
<td>Cognitive Neuroimaging</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB084B</td>
<td>Molecular Principles of Development</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB085B</td>
<td>Brain and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB086</td>
<td>Genomics for Health and Environment</td>
<td>12</td>
</tr>
<tr>
<td>NWI-MOL104</td>
<td>Medical Biotechnology</td>
<td>6</td>
</tr>
<tr>
<td>MED-MIN16</td>
<td>Translational Neuroscience</td>
<td>12</td>
</tr>
</tbody>
</table>

ii. **Medicine (30 EC), MED-MI-GNK-BIO**

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWI-BB017C</td>
<td>Biochemistry and Molecular Biology II</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB019B</td>
<td>Immunology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB021B</td>
<td>Neurofisica</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB023B</td>
<td>Animal Cell Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB025B</td>
<td>Human Pathology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB034B</td>
<td>Neurobiology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB039C</td>
<td>Neurodevelopment</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB047C</td>
<td>Human Embryology and Developmental Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB048B</td>
<td>Endocrinology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB063B</td>
<td>Neuroscience: from Basics to Clinic</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB064B</td>
<td>Functional Genomics</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB065B</td>
<td>Pathophysiology of the Kidney</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB080B</td>
<td>Neurophysiology of Cognition and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB081B</td>
<td>Cognitive Neuroimaging</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB084B</td>
<td>Molecular Principles of Development</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB085B</td>
<td>Brain and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB086</td>
<td>Genomics for Health and Environment</td>
<td>12</td>
</tr>
<tr>
<td>NWI-MOL104</td>
<td>Medical Biotechnology</td>
<td>6</td>
</tr>
<tr>
<td>MED-MIN16</td>
<td>Translational Neuroscience</td>
<td>12</td>
</tr>
</tbody>
</table>
Participation in the Medicine minor is only permitted after a selection. The courses within the minor can only be chosen as part of the complete minor and not separately.

3. Free electives (6 EC)

The second and third year of the programme contain a free elective space of 6 EC, to be filled with assessed courses at the 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 of Radboud University or Radboud university medical center, or at an external research department provided that permission is given in writing by the Examining Board and an internal examiner prior to the start of the internship. Assessment of the Bachelor’s internship will be done with the internship assessment form for the Bachelor’s phase of the programme.

Article 7.5  Sequence of exams
The education and examinations of the components listed below may only be taken once the examinations of the listed components have been successfully completed.

n/a

Section 8. Transitional provisions
Students who have deficiencies in the first year of their Bachelor’s programme before 2019-2020, can make use of Article 4.1 clause 3.
PART IV  FINAL PROVISIONS

Section 9.  Final provisions

Article 9.1  Safety net scheme and hardship clause
1. In all cases not covered fully or clearly by these regulations, the decision lies with the dean.
2. In all cases in which these regulations may result in an unreasonable or unfair situation for individual students, the Examining Board or the dean is authorised to make an exception to the provisions in these Education and Examination Regulations.

Article 9.2  Establishment and amendments
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 the approval of the Joint Assembly of the faculty.
2. An amendment to these regulations has no impact on the current academic year, unless this would disproportionally damage the interest of the students.
3. In derogation from clause 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 enter into force on 1 September 2019.

Article 9.4  Publication
1. The dean is responsible for publishing these regulations and any amendments thereto.
2. Interested parties may consult these regulations via the study guide.

As established by the dean on 03-07-2019.
## APPENDIX

List BB1  Elective courses offered by the Biosciences educational institute

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>NWI-BB011B</td>
<td>Biologie en samenleven</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB017C</td>
<td>Biochemistry and Molecular Biology II</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB018C</td>
<td>Ecophysiology van planten</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB019B</td>
<td>Immunology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB020B</td>
<td>Adaptation Physiology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB021B</td>
<td>Neurobiofysica</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB022B</td>
<td>Systeemecologie</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB023B</td>
<td>Animal Cell Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB024B</td>
<td>Physiology of Microorganisms</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB025B</td>
<td>Human Pathology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB027C</td>
<td>Applied and Environmental Microbiology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB032B</td>
<td>Biotechnology of Plants (not offered in 2018-2019)</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB034B</td>
<td>Neurobiology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB036B</td>
<td>Applied Ecology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB039C</td>
<td>Neurodevelopment</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB043B</td>
<td>Plant Genome Analysis</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB047C</td>
<td>Human Embryology and Developmental Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB048B</td>
<td>Endocrinology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB051B</td>
<td>Applied Bioinformatics (not offered in 2018-2019)</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB060B</td>
<td>Dierecologie</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB063B</td>
<td>Neuroscience: from Basics to Clinic</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB064B</td>
<td>Functional Genomics</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB065B</td>
<td>Pathophysiology of the Kidney</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB077B</td>
<td>Statistiek II</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB079C</td>
<td>Water, Health and Development</td>
<td>3</td>
</tr>
<tr>
<td>NWI-BB080B</td>
<td>Neurophysiology of Cognition and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB081B</td>
<td>Cognitive Neuroimaging</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB083B</td>
<td>Ecological Theory and Data Analysis</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB084B</td>
<td>Molecular Principles of Development</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB085B</td>
<td>Brain and Behaviour</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB086</td>
<td>Genomics for Health and Environment</td>
<td>12</td>
</tr>
<tr>
<td>NWI-BB087</td>
<td>Advanced Population and Evolution Biology</td>
<td>6</td>
</tr>
<tr>
<td>NWI-BB088</td>
<td>Biological Invasions</td>
<td>6</td>
</tr>
<tr>
<td>NWI-MB021B</td>
<td>Geographic Information Systems</td>
<td>6</td>
</tr>
<tr>
<td>NWI-MB023C</td>
<td>Man and Nature: Present, Past and Future</td>
<td>6</td>
</tr>
<tr>
<td>NWI-MB024C</td>
<td>Human and Ecological Risk Assessment</td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL104</td>
<td>Medical Biotechnology</td>
<td>6</td>
</tr>
</tbody>
</table>
List BB2  Other elective courses

<table>
<thead>
<tr>
<th>Course code</th>
<th>Course name</th>
<th>EC</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAN-BKV55</td>
<td><em>Duurzaam ondernemen</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-FC0042B</td>
<td><em>Debating Science: An Introduction in ‘Science in Society’</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-GCSE001</td>
<td><em>Climate Change</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-GCSE007</td>
<td><em>Beleid, Ondernemerschap en Innovatie</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-GCSE008</td>
<td><em>Student Company</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-FNW006</td>
<td><em>Inleiding educatie</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-MOL053</td>
<td><em>Pharmacology</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL054</td>
<td><em>Toxicology</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL055</td>
<td><em>Molecular Basis of Diseases</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL066</td>
<td><em>Structure, Function and Bioinformatics</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL073</td>
<td><em>Comparative Genomics</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-MOL075</td>
<td><em>Bioinformatica A</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-MOL078</td>
<td><em>Nanobiotechnology</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL091</td>
<td><em>Green Chemistry</em></td>
<td>3</td>
</tr>
<tr>
<td>NWI-MOL101</td>
<td><em>Essentials of Organic Chemistry</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL104</td>
<td><em>Medical Biotechnology</em></td>
<td>6</td>
</tr>
<tr>
<td>NWI-MOL107</td>
<td><em>RNA Structure and Function</em></td>
<td>6</td>
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<tr>
<td>NWI-GCSE002</td>
<td><em>Energy and Sustainability</em></td>
<td>3</td>
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