



Teaching and Examination Regulations

2013-2014

Bachelor's degree programmes in

**Biology
Pharmacy
Computing Science
Life Sciences & Technology
Physics
Applied Physics
Chemistry
Chemical Engineering
Astronomy
Mathematics
Applied Mathematics
Industrial Engineering and Management Science
Artificial Intelligence**

Contents

- 1. General provisions**
- 2. Structure of the degree programme**
- 3. The propaedeutic phase of the degree programme**
- 4. Study progress, including the BSA System**
- 5. Admission to the second year of the degree programme, the post-propaedeutic phase**
- 6. The post-propaedeutic phase of the degree programme**
- 7. Examinations and assessments of the degree programme**
- 8. Entry requirements**
- 9. Study progress supervision**
- 10. Transitional and final provisions**



Section 1 General provisions

Article 1.1 Applicability

1. These Regulations apply to the teaching and examinations of the Bachelor's degree programmes in Biology, Pharmacy, Life Science & Technology, Computing Science, Physics, Applied Physics, Chemistry, Chemical Engineering, Astronomy, Mathematics, Applied Mathematics, Industrial Engineering and Management Science, and Artificial Intelligence.
2. The degree programmes are provided by the Faculty of Mathematics and Natural Sciences of the University of Groningen, hereinafter referred to as 'the Faculty'.
3. These Regulations apply to all students enrolled in one or more of the degree programmes listed in Article 1.1.1, unless stated otherwise.
4. These Teaching and Examination Regulations also apply to students of other faculties or institutes of higher education, insofar as they follow course units in one of the degree programmes or the Minors offered by the Faculty.
5. Students who started their degree programme in or before academic year 2005/2006 (or 2007-2008 for students of Artificial Intelligence) will follow the teaching programme set out in the Teaching and Examination Regulations that applied in the year in which they started.

Article 1.2 Definitions

The following definitions apply to these Regulations:

- a. Act: the Higher Education and Research Act (WHW: Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek 2002)
- b. Student: a person registered at the University for the purpose of taking course units and/or examinations leading to the conferral of a university degree
- c. Examiner: a person appointed by the Board of Examiners to assess the students' knowledge and skills
- d. Propaedeutic phase: the first 60 ECTS credit points of the formal Bachelor's degree programme as defined in Article 7.8 of the Act
- e. Post-propaedeutic phase: that part of the Bachelor's degree programme following the propaedeutic phase.
- f. ECTS: a unit of credit according to the European Credit Transfer and Accumulation System, whereby 1 ECTS credit point is the equivalent of 28 hours of study
- g. Study progress overview: a written overview of study results and their ECTS credit points, which is sent to students via e-mail
- h. Preliminary study advice: a written overview of study results accompanied by a preliminary study advice, which is sent to students via e-mail halfway through the academic year
- i. Definitive study advice: a binding study advice (BSA) issued at the end of the academic year, which can be either negative, provisionally positive or positive, in accordance with Article 7.8b of the Act
- j. Course unit: a teaching unit of the degree programme within the meaning of the Act
- k. Practical: a practical exercise, as referred to in Article 7.13 of the Act, in one of the following forms:
 - a written assignment, paper or draft
 - a research assignment
 - active participation in fieldwork or an excursion



- completion of a placement
- a thesis
- active participation in another educational activity designed to teach certain skills
- l. Major: the main focus of the degree programme (150 ECTS)
- m. Minor: part of the degree programme (30 ECTS) in which students can choose their own course units (with the approval of the Board of Examiners)
- n. Examination: an assessment of students' knowledge, understanding and skills at the end of a course unit
- o. Final assessment: the final assessment for the propaedeutic phase or Bachelor's degree
- p. Semester: part of the academic year, either starting on 1 September and ending on a date to be determined by the Board of the University on or around 31 January, or starting on the aforementioned date determined by the Board of the University and ending on 31 August
- q. Student handbook: the most recent student handbook for the programme
- r. CROHO: Centraal Register Opleidingen Hoger Onderwijs [Central Register for Degree Programmes in Higher Education].

All other definitions shall have the meaning that the Act ascribes to them.

Article 1.3 Aim of the degree programme

The learning outcomes of the programme are set out in Appendix I.

Article 1.4 Type of degree programme

The degree programme is full time.

Article 1.5 Follow-on Master's degree programmes

The Master's degree programmes to which the Bachelor's degree programme grants direct admission are listed in Appendix II.

Article 1.6 University of Groningen Honours College (UGHC)

1. The Faculty participates in the University of Groningen Honours College Programme by means of a Joint Regulation.
2. Students admitted to the Bachelor's degree programme can participate in this Honours Programme if they are selected by the Dean of the University of Groningen Honours College. Please consult the Teaching and Examination Regulations of the University of Groningen Honours College for the selection procedure.
3. The Honours Programme, including the deepening Faculty part, is subject to the Teaching and Examination Regulations of the University of Groningen Honours College. The Honours Programme has a total student workload of 45 ECTS credit points, divided over the three years of the Bachelor's programme.
4. The Honours Programme does not form part of the regular Bachelor's curriculum. The results and marks do not count towards the awarding of an honours predicate (as referred to in article 7.13) for the Bachelor's programme.



rijksuniversiteit
 groningen

5. The results of the Honours Programme, including the marks, will be stated on the Diploma Supplement that forms part of the Bachelor's degree certificate awarded to the student.



Article 1.7 - Termination of registration

1. In extraordinary cases of reprehensible behaviour and/or statements made by a student, the Board of the University may, on the recommendation of the Board of Examiners or the Faculty Board, terminate that student's registration.
2. The Board of the University will not make a decision as referred to in Article 1.7.1 until after the student in question has been heard about the proposed decision, any interests of the student and the institution have been carefully assessed, and it is reasonable to assume that the student's conduct and/or statements prove him/her to be unsuitable for one or more of the professions for which he/she is being trained in his/her degree programme or for the practical preparation for that profession. In such cases the Faculty Board, the Board of Examiners and the Board of the University will follow the Protocol Iudicium Abeundi [protocol for termination of registration] as approved by the Nederlandse Federatie van Universitaire Medische Centra [Netherlands Federation of University Medical Centres] on 1 November 2010.

Section 2 Structure of the degree programme

Article 2.1 Organization and assessments of the degree programme

1. The degree programme comprises the following assessments:
 - a. the propaedeutic assessment
 - b. the final assessment for the Bachelor's degree.
2. The degree programme is divided into a propaedeutic phase and a post-propaedeutic phase. The entire degree programme consists of a Major and a Minor. A list of Majors and available Minors can be found in Appendix III to these Regulations.
3. The Major and Minor followed will be stated on the Diploma Supplement.

Article 2.2 Student workload

1. De propedeutische fase heeft een studielast van 180 EC.
2. The propaedeutic phase has a student workload of 60 ECTS credit points.
3. The student workload is expressed in whole ECTS credit points.

Article 2.3 Academic training

The degree programme followed by a student must contain sufficient elements concerning the academic training of the student, particularly with regard to:

- independent academic thinking and conduct
- academic communications
- applying disciplinary expertise in a wider and/or philosophical and social context.

Article 2.4 Language of instruction



1. The language of instruction of the Bachelor's degree programmes Biology, Pharmacy and Life Science and Technology is Dutch, unless
 - a. proficiency in a different language is one of the main aims of the degree programme
 - b. it concerns course units for which knowledge of a different language is essential
 - c. proficiency in a different language is a skill in the subject field of the degree programme
 - d. it concerns course units that are also intended for students who do not speak Dutch. In this case the language of instruction will be English
 - e. it concerns course units that are taught by lecturers who do not speak Dutch. In this case the language of instruction may be English.
2. As of academic year 2013-2014, the Bachelor's degree programmes in Computing Science, Artificial Intelligence, Physics, Applied Physics, Chemistry, Chemical Engineering, Astronomy, Mathematics, Applied Mathematics, and Industrial Engineering and Management Science will be taught in English.

Section 3 The propaedeutic phase of the degree programme

Article 3.1 Structure of the propaedeutic phase

1. A list of course units in the propaedeutic phase can be found in Appendix IV to these Regulations.
2. Any deviations from the set of propaedeutic course units referred to in Article 3.1.1. must be presented to the Board of Examiners for approval.

Article 3.2 Propaedeutic practicals

1. The propaedeutic course units referred to in Article 3.1.1 and listed in Appendix IV to these Regulations may be taught in the form of lectures and may also comprise one or more practicals.
2. Students must participate in all practicals that are part of a course unit in order to be awarded a final mark for the course unit in question.

Section 4 Study progress, including the BSA System (applicable to students starting the degree programme in academic years 2012/2013 and 2013/2014)

Article 4.1 Study progress overview

In the first year of registration, students will be sent a study progress overview in about week 13 of the academic year, and at any rate before the start of the second semester.



Article 4.2 Preliminary study advice

1. In about week 23 of the academic year, and if possible before the start of the second semester, students will be sent a written preliminary study advice.
2. The preliminary study advice should be considered as a warning if there is a question of insufficient study progress, giving students the chance to improve their performance.
3. If the study progress is such that the student cannot reasonably be expected to satisfy the conditions listed in Article 4.3.2, he or she will be invited to a meeting with the study advisor.
The aim of the meeting is to discuss the student's study habits, to reassess the choice of degree programme and perhaps to refer to a different degree programme.

Article 4.3 Definitive study advice

1. A definitive study advice is issued at the end of the first year of study. This can be either:
 - a) positive, if the student has satisfied all the requirements of the propaedeutic phase
 - b) provisionally positive, if the student has earned at least 45 ECTS credit points
 - c) negative, if the student has earned fewer than 45 ECTS credit points in the propaedeutic programme.This study advice is binding for students.
2. In the event that the preliminary study results are insufficient to such an extent that the student cannot be reasonably expected to pass the 45 ECTS threshold by the the end of his/her first year of study, a binding (negative) study advice may be issued subsequently to the preliminary study advice at the request of the student in accordance with Article 4.2. This binding (negative) study advice will be issued according to the procedure described in Article 4.5.
3.
 - a. Students with a provisionally positive study advice will also be issued with a written study advice in their second year of study, after the resits for the second semester and before 31 July. This advice will convert the provisionally positive study advice into
 - 1) a positive study advice, if the student has satisfied all the requirements of the propaedeutic phase
 - 2) a binding (negative) study advice, if the student has not satisfied all the requirements of the propaedeutic phase
 - b. When determining the number of credit points earned, the results of individual parts of examinations (tests, partial exams and projects) do not count.
4.
 - a. In the event that a student does not pass the threshold referred to in Article 4.3.2, but in the same academic year has passed the threshold for a different University of Groningen degree programme to which this OER does not apply, no binding (negative) study advice will be issued for the degree programme to which this OER applies.
 - b. In the event that a student has already gained a propaedeutic certificate or passed the propaedeutic phase of a university degree programme other than the programme(s) to which this OER applies, either at the University of Groningen or another university in the Netherlands, no binding (negative) study advice will be issued for the degree programme



to which this OER applies.

5. Notwithstanding the provisions of Article 4.6 with regard to personal circumstances or recognized committee positions in the second year of registration, a binding (negative) study advice will be issued if the student:
 - a. has earned fewer than 45 ECTS credit points (or 20 ECTS for a part-time degree programme) in his/her first year of registration, or
 - b. has not gained the propaedeutic certificate by the end of his/her second year of registration (or by the end of the third year for a part-time degree programme).
6. A binding (negative) study advice is valid for the next two academic years and applies to the CROHO degree programme for which the student has registered, as well as to CROHO degree programmes that the Board of the University has marked as related and listed in the Appendix to these regulations, including all their tracks.
7. When determining the number of ECTS credit points earned, only those ECTS for the course units referred to in Section 3 will count.
When determining the number of ECTS credit points earned, ECTS credits from exemptions granted in the propaedeutic phase will also count.

Article 4.4 Definitive study advice: exceptions

1. No definitive study advice will be issued to students who submit a request for deregistration as of 1 February of the first year of enrolment. The procedure set out in Article 4.2 will apply again to students who reregister in a subsequent academic year. The BSA regulations for the academic year in which they reregister will then apply.
2. Students who deregister for a degree programme before or as of 1 February and then register as of 1 February of the same year for a degree programme designated by the Board of the University as a related CROHO degree programme (see the Appendix to these regulations) will not qualify for an adapted threshold within the meaning of Article 4.3.2. Students will be issued with a binding (negative) study advice if by the end of the second semester of the first year of registration they have earned fewer than 45 ECTS credit points (or fewer than 20 ECTS for a part-time degree programme), or fail the propaedeutic final assessment at the end of the second year of registration (or at the end of the third year of registration for a part-time degree programme). In all other cases, the provisions of Article 4.3 will apply mutatis mutandis.
3. Students who deregister for a full-time degree programme before or as of 1 February and then register as of 1 February of the same year for the same CROHO degree programme as a part-time programme or a degree programme designated by the Board of the University as a related CROHO degree programme (see the Appendix to these regulations) will not qualify for an adapted threshold within the meaning of Article 4.3.2. Students will be issued with a binding (negative) study advice if they earn fewer than 45 ECTS credit points by the end of the second semester of the first year of registration, or fail the propaedeutic final assessment at the end of the second year of registration. In all other cases, the provisions of Article 4.3 will apply mutatis mutandis.
4. Students who register for a Bachelor's degree programme at the University of Groningen from 1 February and have not previously been registered that same year will be issued a



binding (negative) study advice at the end of the second semester of the first year of registration if they earn fewer than 20 ECTS credit points on that degree programme (or fewer than 10 ECTS for a part-time degree programme), or fail the propaedeutic examination at the end of the second year of registration (or at the end of the third year of registration for a part-time degree programme). In all other cases, the provisions of Article 4.3 will apply mutatis mutandis.

Article 4.5 Definitive study advice / binding (negative) study advice: procedure

1. A definitive study advice/binding (negative) study advice is issued on behalf of the Board of the University by the Faculty Board.
2. Before a binding (negative) study advice can be issued, the student in question will be given the opportunity to put his or her case to the Faculty Board or a representative thereof.

Article 4.6 Personal circumstances

1.
 - a. When deciding whether to issue a binding (negative) study advice, the Faculty Board will take a student's personal circumstances into account at that student's request.
 - b. Only personal circumstances that have been reported by the student to the study advisor as soon as could reasonably be expected after they arose will be taken into consideration by the Faculty Board when making its decision. The student's behaviour and any agreements or plans made between the student and the study advisor will also be considered in this decision.
2. If a binding (negative) study advice is decided against on the grounds of circumstances as referred to in Article 4.6.1, a new study advice within the meaning of Article 4.3 will be issued to the student at the end of his or her next academic year.
3. Circumstances as referred to in Article 4.6.1 do not automatically lead to a successful application for a grant from the Graduation Fund.

Article 4.7 Conditions for appeal

The decision will also state the applicable safeguards of legal rights.



Section 5 Admission to the second year of the degree programme, the post-propaedeutic phase

Article 5.1 Admission to the post-propaedeutic phase (applicable to the 2012/2013 and 2013/2014 cohorts)

1. The following candidates will be admitted to the post-propaedeutic phase:
 - a. Holders of a propaedeutic certificate of the degree programme
 - b. Holders of a propaedeutic certificate of one of the degree programmes listed in Appendix VIII.
2. Notwithstanding the provisions of Article 5.1.1, students who have earned at least 45 ECTS in the first year of the propaedeutic phase and/or have been issued a preliminary positive study advice as referred to in Article 4 can be provisionally admitted to the post-propaedeutic phase.
3. They must draw up a study plan and present this to the study advisor to indicate that they will be able to gain the propaedeutic certificate in their second year. Such a study plan must comprise at least:
 - a. the propaedeutic course units that have not yet been passed with a related time line
 - b. the post-propaedeutic course units that may be followed subsequent to the course units listed under a.
4. Provisional admission does not apply to the third year of the degree programme. For this, the propaedeutic certificate is required.
5. Provisional admission lapses if the student does not satisfy the conditions set out in Article 4.3.2.

Article 5.2 Admission to the post-propaedeutic phase (applicable to the 2010/2011 and 2011/2012 cohorts)

1. The following candidates will be admitted to the post-propaedeutic phase:
 - a. Holders of a propaedeutic certificate of the degree programme
 - b. Holders of a propaedeutic certificate of one of the degree programmes listed in the Appendices.
2. Students who have earned at least 40 ECTS credits from the propaedeutic phase in their first year of registration will be provisionally admitted.
3. They must draw up a study plan and present this to the study advisor to indicate that they will be able to gain the propaedeutic certificate in their second year. Such a study plan must comprise at least:
 - a. the propaedeutic course units that have not yet been passed with a related time line
 - b. the post-propaedeutic course units that may be followed subsequent to the course units listed under a.
4. Provisional admission does not apply to the third year of the degree programme. For this, the propaedeutic certificate is required.



5. Provisional admission lapses if the student does not satisfy the conditions set out in Article 4.3.2.

**Article 5.2 Admission to the post-propaedeutic phase
(applicable to the 2008/2009 and 2009/2010 cohorts)**

The following candidates will be admitted to the post-propaedeutic phase:

- c. Holders of a propaedeutic certificate of the degree programme
- d. Holders of a propaedeutic certificate of one of the degree programmes listed in the Appendices
- e. Students who have earned at least 45 ECTS credit points in the propaedeutic phase.

**Article 5.3 Provisional admission to the post-propaedeutic phase
(applicable to the 2008/2009 and 2009/2010 cohorts)**

1. A student who is preparing for the propaedeutic final assessment for the Bachelor's degree programme listed in Article 1.1 and has earned at least 30 ECTS and no more than 44 ECTS during the propaedeutic phase will be provisionally admitted by the Faculty Board to the second year of the degree programme, the post-propaedeutic phase, on condition that the student compiles a study plan and has this plan approved by the study advisor/mentor/supervisor of the degree programme. Such a study plan must comprise at least:
 - a. the propaedeutic course units that have not yet been passed with a related time line
 - b. the post-propaedeutic course units that may be followed subsequent to the course units listed under a.
2. The study plan as referred to in Article 5.3.1 is subject to the following conditions:
 - a. If the propaedeutic shortfall concerns course units from the first semester of the first year, the student must reregister for those course units in the first semester of the second year. The student may supplement the number of ECTS credit points needed with course units from the post-propaedeutic phase up to a maximum of 30 ECTS.
 - b. If the propaedeutic shortfall concerns course units from the second semester of the first year, the student may register for post-propaedeutic course units in the first semester. However, the student must reregister in the second semester of the second year for the propaedeutic course units that have been missed and supplement them with course units from the post-propaedeutic phase up to a total of 30 ECTS credit points.
 - c. If the propaedeutic shortfall concerns course units from both the first and second semesters of the first year, the student must reregister for those course units in both semesters of the second year. The student may supplement the number of ECTS credit points needed with course units from the post-propaedeutic phase up to a maximum of 30 ECTS.
3. Provisional admission to the second year of the degree programme lapses:
 - a. at the end of the first semester of the second year if the student referred to in Article 5.3.2.a does not satisfy the condition that at least 45 ECTS must have been earned in propaedeutic course units.



- b. at the end of the second semester of the second year if the student referred to in Article 5.3.2.b-c does not satisfy the condition that at least 45 ECTS must have been earned in propaedeutic course units.

Section 5.4 Admission to the second year of the degree programme, the post-propaedeutic phase (applicable to the 2008/2009 and 2009/2010 cohorts)

Students with a propaedeutic certificate will be permitted to start the Minor or the third year of the degree programme.

Article 5.5 Admission to the post-propaedeutic phase (applicable to the 2007/2008 and earlier cohorts)

1. Students may be provisionally admitted to the post-propaedeutic phase before gaining their propaedeutic certificate. Such admission, however, can only be granted at the start of the academic year and on condition that at least 15 ECTS credit points in propaedeutic course units as referred to in Article 3.1 have been earned.
2. Contrary to the provisions of Article 5.5.1, students of the Bachelor's degree programme in Artificial Intelligence who have not yet gained their propaedeutic certificate may be provisionally admitted to the post-propaedeutic at any time during the academic year.

Section 6 The post-propaedeutic phase of the degree programme

Article 6.1 Structure of the post-propaedeutic phase

1. The post-propaedeutic phase comprises the following course units with their related student workloads:
 - a. Major course units (90 ECTS)
 - b. Minor course units (30 ECTS)

A list of course units in the post-propaedeutic phase can be found in Appendix V of these Regulations.

2. Any deviations from the set of post-propaedeutic course units referred to in Article 6.1.1.a and the chosen Minor course units referred to in Article 6.1.1.b must be presented to the Board of Examiners for approval.

Article 6.2 Post-propaedeutic practicals

1. The post-propaedeutic course units referred to in Article 6.1 and listed in Appendix V to these Regulations may be taught in the form of lectures and may also comprise one or more practicals.
2. Students must participate in all practicals that are part of a course unit in order to be awarded a final mark for the course unit in question.



Section 7 Examinations and assessments of the degree programme

Article 7.1 General

1. Examinations, both interim and at the end of a course unit, provide students with the information they need to assess whether they have achieved or will achieve the required learning objectives.
2. Assessment is expressed in whole and half numbers greater than or equal to 1 or less than or equal to 10, or by the qualifications 'Pass' (V) or 'Fail' (O). A course unit is passed when a mark of at least 6 is achieved or when the qualification 'Pass' (V) is awarded. The mark 5.5 is not awarded.

Article 7.2 Compulsory order

The examinations for some course units in the post-propaedeutic phase may not be taken before the exams of certain other course units have been passed. Appendix V to these Regulations provides an overview of course units to which this stipulation applies.

Article 7.3 Examination frequency and periods

1. There will be an opportunity to sit the examinations for the course units listed in Articles 3.1 and 6.1 twice per academic year.
2. Practicals of the degree programme, as listed in Appendices IV and V, will be offered at least once a year. Students will be offered the opportunity to participate in the practicals once a year.
3. Contrary to the provisions of Article 7.3.1, for course units which are not taught in a specific academic year, standard examination opportunities will be offered in that same year.
4. Contrary to the provisions of Article 7.3.1, for course units which are taught for the last time in a specific academic year, standard examination opportunities will be offered in the following year.

Article 7.4 Form of examinations

1. The form of examinations of the course units listed in Articles 3.1 and 6.1 is indicated in Appendices IV and V to these Regulations.
2. At the student's request, the Board of Examiners may allow an examination to be taken in a form different from that stated in Article 7.4.1.
3. Students with a performance disability will be given the opportunity to take examinations in a form that will compensate as far as possible for their individual disability. If necessary, the Board of Examiners will seek expert advice on this matter.

Article 7.5 Oral examinations



1. Unless the Board of Examiners decides otherwise, an oral examination may only be taken by one student at a time.
2. A neutral observer with no personal interest may attend an oral examination at the request of the examiner or the student.

Article 7.6 Authority of the Board of Examiners regarding optional course units

1. The Board of Examiners for the degree programme setting the examination is authorized to assess the examinations and deal with any complaints. This does not apply to a request for an alternative examination regulation – in such cases the Board of Examiners of the degree programme in which the student is enrolled is the responsible party.
2. With regard to exams for students with a performance disability, the Board of Examiners of the degree programme referred to in Article 7.6.1 shall comply with the facilities permitted by the Board of Examiners of the degree programme in which the student is enrolled.

Article 7.7 Marking of examinations and publication of marks

1. After an oral examination, the examiner must assess the examination immediately and submit the result to the study results administration department.
2. The examiner must mark a written examination within 10 working days of the day on which it was sat, and will provide the study results administration department with the necessary details for written confirmation of the result to be sent to the student.
3. Written examinations for propaedeutic course units specified by the Director of the Undergraduate School of Science (USS) must be marked within 5 working days of the day on which they were sat. The study results administration department will then provide the necessary details for written confirmation of the result to be sent to the student and to determine whether a binding (negative) study advice is in order.
4. The examiner must mark practicals within 10 working days of the day on which the course unit must be completed, with the exception of practicals for which the Board of Examiners has set an alternative marking period of no more than one month.
5. Examiners must provide the study results administration department with the necessary details for written confirmation of the result to be sent to the student.
6. The overview of study results that is sent digitally to each student twice a year constitutes valid written confirmation.
7. If an examination is taken in a form other than oral, written or via a practical, the Board of Examiners will determine in advance how and when students will receive written confirmation of the result.

Article 7.8 Validity

1. Completed course units remain valid indefinitely.



2. Notwithstanding the provisions of Article 7.8.1, the Board of Examiners may decide to require a student to sit a supplementary or substitute examination for a course unit taken more than six years previously before allowing that student to progress to the relevant examination.

Article 7.9 Right of inspection

1. On request, students have the right to inspect their marked work during a period of six weeks after the results of a written examination have been made known.
2. Within the time frame stipulated in Article 7.9.1, students may request that they be allowed to peruse the examination paper and the assessment criteria.
3. The Board of Examiners can determine that this inspection or perusal will take place at a certain place and at two set times at least. If the person concerned can show that they were prevented by force majeure from attending at the indicated places and times, they will be offered another opportunity, if possible within the period stated in Article 7.9.1.

Article 7.10 Exemptions

1. At the student's request, the Board of Examiners, having discussed the matter with the examiner in question, may grant exemption from an examination on condition that the student:
 - a. has completed part of a university or higher vocational degree that is equivalent in content and level
 - b. or can demonstrate by work experience that he/she has sufficient knowledge and skills with respect to the course unit in question.
2. The Board of Examiners may also grant exemption from participation in practical exercises. Such exemptions can be granted, for example, on the basis of recognized conscientious objections. In such cases, the Board of Examiners will require the practical exercise to be performed in a different way that it will determine.

Article 7.11 Final assessment

1. The Board of Examiners determines the result of the final assessment as soon as the student has passed all the required examinations, thereby acquiring the necessary academic training, and to that end issues a certificate.
2. Before the final assessment can be determined, the Board of Examiners may decide to test the student's knowledge of one or more components or aspects of the degree programme, if and in as much as the marks for the relevant exams provide a reason for doing so.
3. By determining the result of the final assessment, the Board of Examiners also commits itself to a speedy processing of the degree certificate ceremony.
4. If a student wishes to postpone the date of graduation due to extra examinations that still need to be taken, he or she must submit a request to this end to the Board of Examiners in good time.



Article 7.12 Degree

1. Students who pass the final assessment are awarded the degree 'Bachelor of Science'.
2. The degree awarded shall be registered on the degree certificate.

Article 7.13 Honours ('judicium')

1. The Board of Examiners shall determine whether or not the certificate will be awarded an honours predicate.
2. To the propaedeutic certificate the following conditions apply:
For the predicate 'Cum Laude':
 - a) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners must be at least 8.0.

For the predicate 'Summa Cum Laude':

- a) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners must be at least 9.0.
3. To the Bachelor's degree programme certificate the following conditions apply:
For the predicate 'Cum Laude':
 - b) The mark for the **Bachelor's project** must be at least 8.0, and
 - c) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners, not including the **Bachelor's project**, must be at least 8.0.

For the predicate 'Summa Cum Laude':

 - b) The mark for the **Bachelor's project** must be at least 9.0, and
 - c) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners, not including the **Bachelor's project**, must be at least 9.0.
 4. No honours predicate is awarded if the student workload of the exemptions in ECTS credit points is more than half the total number of ECTS for the degree programme.
 5. Honours may only be awarded if the examinations for the course units were taken only once.
 6. Honours may only be awarded if no single course unit was awarded a mark less than 7.0.
 7. In certain circumstances, the Board of Examiners may depart from the provisions set out in Articles 7.13.2-6.
 8. Students who started the degree programme before 1 September 2010 continue to fall under the honours regulations that applied to them on 31 August 2010 and that were included in the Rules and Regulations at the time.

Article 7.14 Assessment assessment plan

An assessment plan has been approved by the Faculty Board, comprising the following topics:

1. the learning outcomes of the degree programme;



2. the course units of the degree programme and the learning outcomes of each course unit;
3. the relationship between course units and learning outcomes;
4. the test method to be used and the test moments for each course unit;
5. the test design and assessment procedures, assessment criteria and pass mark definition used;
6. who is/are responsible for the implementation of the various components of the assessment policy;
7. the method of regular evaluation.

Section 8 Entry requirements

Article 8.1 Educational deficiencies

The following applies to students with Dutch qualifications:

1. Deficiencies in the qualifications below may be compensated by passing the relevant examinations at the level of the VWO final examination. The relevant subjects and examinations are listed in Appendix VI, part A1.
2. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.

Article 8.2 Language of instruction

Prospective students with foreign qualifications may be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, and Pharmacy if they meet the Dutch language proficiency requirement. This requirement can be met by passing the Dutch State Exam NT2-II (Dutch as a Second Language).

Article 8.3 Equivalent qualifications

1. The Board of Examiners may grant exemption from the qualification requirements to holders of a certificate of a foreign secondary education institute that has not been designated by ministerial regulation as equivalent to the qualification requirements listed in Article 7.24 of the Act.
2. The Board of Examiners will make its decision with regard to the exemption referred to in Article 8.3.1 once an assessment by the Faculty Committee for Special Admissions has revealed such equivalence.
3. Decisions to grant exemption as referred to in Article 8.3.2 will be made without prejudice to the provisions of Article 8.2 of these Regulations.



Section 9 Study progress supervision

Article 9.1 Study results administration

1. The Faculty will register the individual results of the students.
2. It will provide each student with an overview of these results at least twice a year.
3. Authenticated overviews will be provided by the study results administration department upon a student's request.

Article 9.2 Study progress supervision

The Faculty is responsible for the introduction and the supervision of the students registered for the degree programme, also with an eye to potential study options within and outside the degree programme.

Section 10 Transitional and final provisions

Article 10.1 Amendments

1. Any amendments to these Regulations will, after due consultation with the programme committee and, if applicable, with the approval of the Faculty Council, be confirmed by the Faculty Board in a separate decree.
2. An amendment to these Regulations shall not apply to the current academic year, unless it may reasonably be assumed that the amendment will not harm the interests of students.
3. In addition, amendments may not influence any decision concerning a student taken by the Board of Examiners under these Regulations to the detriment of students.

Article 10.2 Publication

1. The Faculty Board shall duly publish these Regulations, any rules and guidelines formulated by the Board of Examiners, and any amendments to these documents.
2. Copies of the documents referred to in Article 10.2.1 are available from the Faculty Office.

Article 10.3 Legal validity

The Dutch text shall be binding in the event of differences of opinion on the interpretation of the Dutch or English version of these Teaching and Examination Regulations.

Article 10.4 Hardship clause



rijksuniversiteit
groningen

In exceptional cases and cases not covered by these regulations, the Board of Examiners shall have the final word. Appeals against the decisions of the Board of Examiners may be lodged with the Board of Appeal for Examinations.

Article 10.5 Date of commencement

These Regulations shall take effect on 1 September 2013.



Annex: Minors

Article – Minors

1. The Faculty of Mathematics and Natural Sciences offers three Minors. The entry requirements for these Minors are set out in Section 5. The Minors are taught in Dutch, unless otherwise indicated. Their content and student workload are as follows:

Neurosciences Minor:

- Neuroscience (18 ECTS)
- Behavioral Neuroscience (6 ECTS)
- Neuroscience essay (6 ECTS)

Artificial Intelligence Minor:

- Introduction to Artificial Intelligence (5 ECTS) (English)
- Knowledge and Agent Technology (5 ECTS)
- Architectures of Intelligence (5 ECTS)
- Philosophy of Cognitive Science (5 ECTS)

Plus two of the following three course units:

Autonomous Systems (5 ECTS) (English)

Human Error (5 ECTS) (English)

Neural Networks (5 ECTS)

People, Planet, Profit Minor:

- Overview and Coherence People Planet Profit (10 ECTS)
- People Planet Profit paper (5 ECTS)
- Multidisciplinary Cooperation (5 ECTS)
- Project Sustainability (10 ECTS)

2. The Programme Committee for the Bachelor's degree programmes in Biology and Life Science & Technology also has authority in the field of the Neurosciences Minor and/or its course units.
The Programme Committee for the degree programme in Artificial Intelligence also has authority in the field of the Artificial Intelligence Minor and/or its course units.
The Programme Committee for the Master's degree programme in Energy & Environmental Sciences also has authority in the field of the People, Planet, Profit Minor and/or its course units.
3. The Board of Examiners for the Bachelor's degree programmes in Biology and Life Science & Technology and the Master's degree programmes in Biology, Ecology & Evolution, Marine Biology and Molecular Biology & Biotechnology also has authority in the field of the Neurosciences Minor and/or its course units.
The Board of Examiners for the degree programme in Artificial Intelligence also has authority in the field of the Artificial Intelligence Minor and/or its course units.
The Board of Examiners for the Master's degree programme in Energy & Environmental Sciences also has authority in the field of the People, Planet, Profit Minor and/or its course units.



4. These Teaching and Examination Regulations also apply in their entirety to the Minors in Neurosciences, Artificial Intelligence and People, Planet, Profit and/or their course units.



rijksuniversiteit
groningen



rijksuniversiteit
groningen

**Appendices for the Bachelor's degree
programme(s) in**



rijksuniversiteit
 groningen

Appendix I
programme
Article 1.3

Learning outcomes of the Bachelor's degree



Appendix II Follow-on Master's degree programmes

Article 1.5

The Bachelor's degree programme will grant unconditional admission to the following Master's degree programmes at the University of Groningen:

- Education and Communication in Mathematics and Natural Sciences (Science Communication programme)
- Energy and Environmental Sciences



Appendix III Majors and Minors of the degree programme Article 2.1.2

The degree programme has the following Major(s):

....

The degree programme has the following Minor(s):

....



Appendix IV Course units in the propaedeutic phase

- List of course units; Article 3.1.1
- Course units with one or more practicals; Article 3.2
- Form of examinations; Article 7.4

Course unit name	ECTS	Practical	Form of exam	Entry requirements



Appendix V Course units in the post-propaedeutic phase

- List of course units; Article 6.1
- Course units with one or more practicals; Article 6.2
- Compulsory order of examinations; Article 7.2
- Form of examinations; Article 7.4

Course unit name	ECTS	Practical	Form of exam	Entry requirements



Appendix VI Entry requirements

A. HBO (university of applied science) propaedeutic certificate

1. The following requirements apply to the entrance examination as defined in Article 7.28.3 of the Act:

Degree programme	Subjects at VWO (pre-university) level	Requirement: Dutch as a Second Language (programme II) for non-native speakers of Dutch
B Biology	wia or wib + na+sk+bio	Yes
B Pharmacy	wia or wib + na+sk	Yes
B Life Science and Technology	wib+na+sk	Yes
B Computing Science	wib	
B Artificial Intelligence	wia or wib	
B Physics	wib+na	
B Chemistry	wib+na+sk	
B Astronomy	wib+na	
B Mathematics	wib	
B Chemical Engineering	wib+na+sk	
B Industrial Engineering and Management Science	wib	
B Applied Physics	wib+na	
B Applied Mathematics	wib	

wia = Mathematics A; wib = Mathematics B; na = Physics; sk = Chemistry; bio = Biology

2. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).
3. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.

B. Foreign qualifications (EEA)

1. Any certificate that grants access to a university in a European country will also grant access to Dutch universities.
2. The same requirements that also apply to candidates with an HBO (university of applied science) propaedeutic certificate will apply to these candidates in the entrance examination as defined in Article 7.28.3 of the Act (see A).
3. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).



4. In addition, candidates are required to be competent in English: an IELTS score of 6.5, a TOEFL score of 580 (paper-based), of 237 (computer-based) or of 92 (internet-based) or equivalent.
5. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.

C. Foreign qualifications (German)

1. German candidates must have a Zeugnis der Allgemeinen Hochschulreife ('Abitur').
2. The following requirements apply to the entrance examination as defined in Article 7.28.3 of the Act:

Degree programme	
B Biology	wi (LK or GK) na (LK or GK) sk (LK or GK) bio (LK or GK) (at least one subject at Leistungskurs level)
B Pharmacy B Life Science and Technology B Chemistry B Chemical Engineering	wi (LK or GK) na (LK or GK) sk (LK or GK) (at least one subject at Leistungskurs level)
B Computing Science B Mathematics B Applied Mathematics B Artificial Intelligence	wi (LK)
B Physics B Astronomy B Applied Physics	wi (LK) na (LK or GK)
B Industrial Engineering and Management Science	wi (LK or GK) na (LK or GK) (at least one subject at Leistungskurs level)

wi= Mathematics; na = Physics; sk = Chemistry; bio = Biology
LK = Leistungskurs level; GK = Grundkurs level followed until end of Class 13 or Class 12 (if Gymnasium education lasts 12 years).

3. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).
4. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.



D. Foreign qualifications (International Baccalaureate)

1. The following requirements apply to the entrance examination as defined in Article 7.28.3 of the Act:

Degree programme	from 2010/2011
B Biology	Biology (SL or HL) Maths (SL or HL) Physics (SL or HL) Chemistry (SL or HL) two of these subjects at HL
B Pharmacy B Life Science and Technology B Chemistry B Chemical Engineering	Maths (SL or HL) Physics (SL or HL) Chemistry (SL or HL) two of these subjects at HL
B Computing Science B Mathematics B Applied Mathematics	Maths HL
B Artificial Intelligence	Maths SL or Maths HL
B Physics B Astronomy B Applied Physics B Industrial Engineering and Management Science	Maths HL Physics HL

SL = Standard Level, HL = Higher Level

2. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).
3. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.

E. Foreign qualifications (non-EEA)

1. A non-European certificate that according to NUFFIC and/or NARIC standards is equivalent to a Dutch VWO certificate will grant access to university in the Netherlands.
2. The same requirements that also apply to candidates with an HBO (university of applied science) propaedeutic certificate will apply to these candidates in the entrance examination as defined in Article 7.28.3 of the Act (see A).
3. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).
4. In addition, candidates are required to be competent in English: an IELTS score of 6.5, a TOEFL score of 580 (paper-based), of 237 (computer-based) or of 92 (internet-based) or equivalent.



5. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.

F. Entrance examination

1. The following requirements apply to the entrance examination as defined in Article 7.29 of the Act:

Degree programme	Nature and Health VWO level	or	Nature and Technology VWO level
B Biology	en, wia or b, sk, bio, na		en, wib, na, sk, bio
B Pharmacy	en, wia or b, sk, bio, na		en, wib, na, sk
B Life Science and Technology	en, wib, sk, bio, na		en, wib, na, sk
B Computing Science	en, wib, sk, bio		en, wib, na, sk
B Artificial Intelligence	en, wia of b, sk, bio		en, wib, na, sk
B Physics	en, wib, sk, bio, na		en, wib, na, sk
B Chemistry	en, wib, sk, bio, na		en, wib, na, sk
B Astronomy	en, wib, sk, bio, na		en, wib, na, sk
B Mathematics	en, wib, sk, bio		en, wib, na, sk
B Chemical Engineering	en, wib, sk, bio, na		en, wib, na, sk
B Industrial Engineering and Management Science	en, wib, sk, bio		en, wib, na, sk
B Applied Physics	en, wib, sk, bio, na		en, wib, na, sk
B Applied Mathematics	en, wib, sk, bio		en, wib, na, sk

en = English; wia = Mathematics A; wib = Mathematics B; na = Physics; sk = Chemistry; bio = Biology

2. Non-native speakers of Dutch who wish to be admitted to the Bachelor's degree programmes in Biology, Life Science and Technology, or Pharmacy must also have passed the State Examination in Dutch as a Second Language, Programme II (NT2-II).
3. The Faculty Committee for Special Admissions will determine whether deficiencies have been compensated satisfactorily.



Appendix VII Clustering of Bachelor's degree programme

Degree programme CROHO code	Name of degree programme	Clustered with CROHO code	Name of degree programme
56286	B Life Science and Technology	56860 56157 56989	B Biology B Pharmacy B Pharmaceutical Sciences
56860	B Biology	56286 56157 56989	B Life Science and Technology B Pharmacy B Pharmaceutical Sciences
56157	B Pharmacy	56860 56286 56989	B Biology B Life Science and Technology B Pharmaceutical Sciences
56989	B Pharmaceutical Sciences	56860 56286 56157	B Biology B Life Science and Technology B Pharmacy
56980	B Mathematics	56965	B Applied Mathematics
56965	B Applied Mathematics	56980	B Mathematics
50206	B Physics	56962 50205	B Applied Physics B Astronomy
56962	B Applied Physics	50206 50205	B Physics B Astronomy
50205	B Astronomy	56962 50206	B Applied Physics B Physics
56857	B Chemistry	56960	B Chemical Engineering
56960	B Chemical Engineering	56857	B Chemistry



Appendix VIII Admission to the post-propaedeutic phase

The following candidates will be admitted to the post-propaedeutic phase:

Holders of a propaedeutic certificate of the degree programme

Holders of a propaedeutic certificate of
the Bachelor's degree programme in.....

the Bachelor's degree programme in.....