



## **Teaching and Examination Regulations**

**2019-2020**

### **Bachelor's degree programmes in**

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

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The Teaching and Examination Regulations (TER) set out the specific rights and obligations that apply to each degree programme taught at the University of Groningen, for both students and the degree programme. The University-wide section of the Student Charter sets out the rights and obligations that apply to all students.



## Section 1 General provisions

### Article 1.1 Applicability

1. These Regulations for the academic year 2019-2020 apply to the teaching and examinations of the Bachelor's degree programmes in Biology, Pharmacy, Life Science and Technology, Computing Science, Physics, Applied Physics, Chemistry, Chemical Engineering, Astronomy, Mathematics, Applied Mathematics, Industrial Engineering and Management Science, and Artificial Intelligence, and to all students enrolled in this degree programme.
2. The degree programmes are provided by the Faculty of Science and Engineering (FSE) of the University of Groningen (UG), hereinafter referred to as 'the Faculty'.
3. These Teaching and Examination Regulations (TER) 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.
4. Course units or Minors that students of the degree programme as referred to in Article 1.1.1 follow in other degree programmes or at other faculties or institutes of higher education are subject to the Teaching and Examination Regulations of that programme, faculty or institute.
5. These Regulations also apply to students enrolled in the degree programme for the purpose of following a Pre-Master's programme as referred to in Article 8.8.

### 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. Degree programme: the Bachelor's degree programme referred to in Article 1.1 of these Regulations, comprising a coherent set of course units
- d. OCASYS: the University of Groningen's digital course catalogue
- e. Course unit: a teaching unit of the degree programme within the meaning of the Act, included in OCASYS
- f. ECTS credit point: a credit point within the meaning of of Article 7.4 of the Act. The student workload of each course unit is expressed in ECTS credit points, whereby 1 ECTS is equivalent to a student workload of 28 hours
- g. Propaedeutic phase: the first 60 ECTS credit points of the formal Bachelor's degree programme as defined in Article 7.8 of the Act
- h. Post-propaedeutic phase: that part of the Bachelor's degree programme following the propaedeutic phase
- i. Study progress overview: a written overview of study results and their ECTS credit points, which is sent to students via e-mail
- j. Preliminary study advice: a written overview of study results accompanied by a preliminary study advice, which is issued to students halfway through the academic year;
- k. Definitive study advice: a study advice that is issued only once at the end of the first year and which may result in rejection of the student in question, in accordance with Article 7.8b.1 of the Act



- l. Binding study advice: a negative study advice that is binding for the student in question and means the student may not continue with the degree programme, in accordance with Article 7.8b.3 of the Act
- m. Major: the set of course units in the propaedeutic and post-propaedeutic phases that forms the main focus of the degree programme (150 ECTS)
- n. Minor slot: the space available for students to specialize within the degree programme (2 x 15 ECTS)
- o. University Minor: a coherent set of broadening course units or deepening course units that students can follow either at their own or a different Faculty
- p. Personal Minor: a coherent set of broadening and deepening course units, approved by the Board of Examiners, that students can choose themselves and follow either at their own or different Faculty
- q. Test or examination: an assessment of students' knowledge, understanding and skills at the end of a course unit
- r. Final assessment: the final assessment for the Bachelor's degree which is considered to be passed once all the requirements of the entire Bachelor's degree programme have been satisfied
- s. Academic year: the period of time that starts on 1 September and ends on 31 August of the following year
- t. 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
- u. 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
- v. Board of Examiners: an independent body with the duties and powers as stated in Articles 7.11, 7.12, 7.12b and 7.12c of the Act, including assessing whether the requirements of the final assessment have been met
- w. Admissions Board Bachelor's programmes FSE: the board that has decision-making powers in matters concerning admission to the degree programme on behalf of the Faculty Board;
- x. Examiner: a person appointed by the Board of Examiners to set examinations and determine their results
- y. VWO diploma: pre-university certificate in accordance with Article 13.1 of the Secondary Education Act or Article 7 of the Secondary Education Act BES
- z. Programme Committee: the consultative and advisory body that fulfils the duties referred to in Article 9.18 and 9.38c of the Act
- aa. Regular student: a student who is not a part-time, Minor or non-degree exchange student
- bb. Matching: matching activities and degree programme advice in accordance with Article 7.31a ff. of the Act, further elaborated in Chapter 3 of the University of Groningen Regulations for Registration and Tuition Fees
- cc. Extraordinary circumstances: circumstances such as those referred to in Article 7.51 of the Act, and which will be taken into account when formulating a decision within the meaning of Articles 5.4 and 9.10. For the UG, the Graduation Fund Regulations 2019-2020 contain an elaboration of Article 7.51 of the Act. In these Regulations, extraordinary circumstances include, in any case, a disability of chronic illness, illness, pregnancy and delivery, extraordinary family circumstances, a degree programme which is not feasible, students with an elite sports status (issued by the elite sports coordinator), students with a ' student



- entrepreneurship status' (issued by the UGCE), membership of a consultative participation body
- dd. Open University: a government-funded university in accordance with Article 1.8 of the Act that develops and offers distance learning at university level
  - ee. ESC: the Education Support Centre of the faculty
  - ff. UGCE: University of Groningen Center of Entrepreneurship

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

## **Section 2 Qualifications and admission**

### **Article 2.1 Admission to the propaedeutic phase of the degree programme**

Holders of a VWO diploma with the right profile grants admission to the degree programme (as in Appendix V, part A).

### **Article 2.2 Admission to the propaedeutic phase of the programme with deficiencies and admission based on a HBO (University of Applied Sciences), University or Open University propaedeutic certificate**

The following applies to students with Dutch qualifications:

1. Deficiencies in the qualifications in a VWO diploma 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 V, part A1.
2. Holders of a propaedeutic certificate from a HBO Bachelor's programme or an (Open) University Bachelor's programme will be granted admission to the degree programme after having demonstrated sufficient knowledge at VWO final examination level in accordance with the entry requirements for VWO graduates. The relevant subjects and examinations are listed in Appendix V, part B.
3. The Admissions Board Bachelor's programmes FSE will determine whether deficiencies have been compensated satisfactorily.

### **Article 2.3 Language requirement for foreign certificates**

1. Students who have been admitted to a degree programme on the basis of a foreign certificate or degree may be required by the Admissions Board Bachelor's programmes FSE – before registration – to pass an English language test.
2. The English language proficiency requirement can be met by passing an examination in English at the level of the VWO final exam or by passing the test mentioned in Appendix V, part B3, C4 and D4.



#### **Article 2.4 Equivalent qualifications**

1. 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 may be granted exemption from the qualification requirements.
2. Equivalence will be revealed after an assessment by the Admissions Board Bachelor's programmes FSE.

#### **Article 2.5 Entrance examination**

1. Students who do not satisfy the entry requirements set out in Articles 2.1 and 2.2 may take an entrance examination in accordance with Article 7.29 of the Act.
2. Students who wish to take the entrance examination must be aged 21 or over on the date on which the examination is held. An exception to the age requirement may be made if the student in question has gained a certificate abroad or if the student has the status of refugee and for this reason is unable to present a degree certificate.
3. The entrance examination concerns the relevant subjects and examinations listed in Appendix VI part A1 and will be assessed by the Admissions Board Bachelor's programmes FSE.
4. A successfully completed entrance examination will grant admission to the University of Groningen degree programme for which it was taken for the duration of two academic years after the date on which the examination was taken.

#### **Article 2.6 Preparatory year**

1. Higher educated foreigners who do not satisfy the entry requirements set out in the articles 2.1, 2.2 and 2.3 may participate in the Preparatory Year for higher educated foreigners, offered by the Alfa-College for Hanze University of Applied Sciences and University of Groningen.
2. A successfully completed entrance examination of the Preparatory Year will grant admission to the University of Groningen degree programme for which it was taken for the duration of two academic years after the date on which the examination was taken.

#### **Article 2.7 Admissions Board bachelor's degree programmes FSE**

1. The Admissions Board bachelor's degree programmes FSE has the power to decide on behalf of the Faculty Board in matters concerning admission to the degree programme.
2. The Faculty Board is responsible for appointing members of the Admissions Board Bachelor's programmes FSE and will set out the admissions procedure.

#### **Article 2.8 Intake date and application dates**

1. There is one intake date per academic year, namely 1 September of each year.



2. In addition to this intake date, registration on other dates may take place in accordance with the *Intake and application policy Bachelor's degree programmes FSE*.
3. The *Intake policy bachelor's degree programmes FSE* will be announced in the same way as is stated in article 12.3.2.

### **Article 2.9 Matching**

1. Prospective students are required to attend the matching activities related to the degree programme in question. Prospective students will be issued with a degree programme advice based on their participation in the matching activities.
2. The stipulations in Chapter 3 of *the University of Groningen Regulations for Registration and Tuition Fees (RIC)* and the Faculty matching procedure apply.

## **Section 3 Content and structure of the degree programme**

### **Article 3.1 Aims and learning outcomes of the degree programme**

1. The degree programme is designed to:
  - a. impart knowledge, skills and understanding in the field of the degree programme, and to enable the learning outcomes of the programme listed in Appendix I to be attained;
  - b. promote academic development. This is defined as the development of competences (knowledge, skills and attitudes) concerning:
    - independent academic thought and action
    - scientific communication
    - the use of the relevant academic instruments
    - the use of specific knowledge of a field in a wider academic, philosophical and social/cultural context
    - behavioural norms that apply during the degree programme and in the academic world;
  - c. prepare students for a further study career. Students become familiar with the theory and practice of academic research from the very start of their Bachelor's degree programme.
2. The learning outcomes of the various course units are stated in OCASYS.

### **Article 3.2 Type of degree programme**

The degree programme is full time.

### **Article 3.3 Language of instruction**

1. The Bachelor's degree programmes are taught in English.



2. The third year of the bachelor's degree programmes in Biology, Life Science and Technology and Pharmacy is offered in Dutch in the academic year 2019-2020.

#### **Article 3.4 Student workload**

1. The degree programme has a student workload of 180 ECTS credit points.
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 3.5 Conditions for awarding a University of Groningen degree (dit artikel kan naar section 9 Examinations)**

1. Students can only be awarded a Bachelor's degree for the degree programme if at least half of the programme was followed at the University of Groningen during the student's period of registration as a student at the University of Groningen.
2. For Double Degree Bachelor's degree programmes offered together with an institution abroad, at least one quarter of the programme must have been followed at the University of Groningen during the student's period of registration as a regular student at the University of Groningen.

#### **Article 3.6 Contact hours**

1. The propaedeutic phase of the degree programme comprises a minimum of 480 contact hours a year;
2. The structure of the contact hours in the propaedeutic phase is set out in Appendix VIII.

#### **Article 3.7 Organization and assessments of the degree programme**

1. The Bachelor's degree programme is concluded with a final assessment.
2. The degree programme is divided into a propaedeutic phase and a post-propaedeutic phase.
3. The entire degree programme comprises a Major (150 ECTS) and a Major related minor (30 ECTS) or a Minor slot (2 x 15 ECTS).
4. A list of Majors and available Minors can be found in Appendix II to these Regulations.





## **Section 4 The propaedeutic phase of the degree programme**

### **Article 4.1 Structure of the propaedeutic phase**

1. A list of course units in the propaedeutic phase can be found in Appendix III to these Regulations.
2. Any deviations from the set of propaedeutic course units referred to in Article 4.1.1. must be presented to the Board of Examiners for approval.
3. All course units and their modes of instruction are listed in the University's digital course catalogue OCASYS.

### **Article 4.2 Propaedeutic practicals**

1. The propaedeutic course units referred to in Article 3.1.1 and listed in Appendix III 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 5 Study advice**

### **Article 5.1 Preliminary study advice**

1. Halfway through the first semester of the first year of registration in the propaedeutic phase of the degree programme, students will receive a study progress overview specifying the student workload realized thus far.
2. Students will receive a written preliminary study advice as soon as possible after the first semester, and in any case before March 1st.
3. 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.
4. If the study progress is such that the student cannot reasonably be expected to satisfy the conditions for receiving a positive study advice as listed in Article 5.2.2a, he or she will be invited to a meeting with the academic 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 5.2 Definitive study advice**

1. Students must earn at least 45 ECTS credit points in their first year of registration in the propaedeutic phase of the degree programme. This threshold is known as the BSA threshold.





2. A definitive study advice is issued at the end of the first year of study, by July 31<sup>st</sup> at the latest. This can be either:
  - a. positive, for students who have earned at least 45 ECTS of the propaedeutic programme.
  - b. negative, for students who have earned fewer than 45 ECTS of the propaedeutic programme. This study advice is binding for students (BSA) in accordance with Article 7.8b.3 of the Act.

When determining the number of credit points earned, the results of individual parts of examinations (tests, partial exams and projects) do not count.

3. In the event that the preliminary study results are insufficient to such an extent that the student cannot reasonably be expected to pass the 45 ECTS threshold by the end of the first year of study, a binding (negative) study advice may be issued subsequently to the preliminary study advice as referred to in Article 5.1 before the end of the academic year. This may also be at the request of the student. The procedure set out in Article 5.5 will apply.
4. a. The Faculty Board will take extraordinary personal circumstances as referred to in Article 5.4 into account in its decision about which study advice to issue in the first year of registration.
  - b. Notwithstanding the stipulations in Article 5.2.2, if no assessment can be made with regard to a student's suitability for the degree programme due to personal circumstances for the first year, the assessment may be postponed until a later date within the propaedeutic phase.

### **Article 5.3 Exemptions to the definitive study advice**

#### ***Multiple degree programmes at the University of Groningen***

1. Students who are registered for the propaedeutic phase of two or more University of Groningen degree programmes in their first year of registration, and by the end of the year satisfy the BSA threshold as referred to in Article 5.2.1 for one degree programme, will not have to satisfy the BSA threshold for the other programme(s) in that year. Once a student has successfully completed the propaedeutic phase of one degree programme, he or she is exempt from the BSA requirements for all other programmes.

#### ***Propaedeutic certificate previously gained/completion of the propaedeutic phase***

2. Students who have already completed the propaedeutic phase of a degree programme at the University of Groningen or another Dutch university, or (for degree programmes that do not issue propaedeutic certificates) in the opinion of the Board of Examiners have earned 60 ECTS credit points in their first year of study, will not fall under the BSA system for the degree programme for which they enrol in the propaedeutic phase.

#### ***Deregistration before 1 March***

3. No definitive study advice will be issued to students who submit a request for deregistration before or as of 1 March of the first year of registration for the propaedeutic phase of the degree programme or a degree programme in the same degree programme cluster. The procedure set out in Article 5.1 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.



***Deregistration before 1 February + registration as of 1 February***

4. Article 5.2 applies in full to students who deregister from a degree programme before 1 February and register for a degree programme in the same degree programme cluster, see Appendix VI, as of 1 February of the same academic year.

***Registration as of 1 February***

5. An adapted BSA threshold will apply to students who register for a University of Groningen Bachelor's degree programme as of 1 February and have not previously been registered as students in the same academic year. These students must have earned 20 ECTS in the propaedeutic phase of the degree programme by the end of the second semester of the first Academic Year of registration. In all other cases, the provisions of Article 5.2 will apply *mutatis mutandis*.

**Article 5.4 Extraordinary circumstances**

1. When deciding whether to issue a binding (negative) study advice, the Faculty Board will take a student's extraordinary or personal circumstances into account at that student's request.  
The evaluation of extraordinary circumstances will also take into account the student's study behaviour, the agreements made and/or the study plan drawn up in consultation with the academic advisor, when the extraordinary circumstances were reported and the study results achieved by the end of the first year of study.
2. Students must report extraordinary circumstances to the academic advisor as soon as possible in order to ensure optimum support. The Faculty Board, or the Faculty BSA Committee on its behalf, will make a decision in response to a student's request for a postponed advice and possibly an adapted BSA threshold. Students must also report to the academic advisor as soon as possible, if they are unable to complete the study plan drawn up in consultation with the academic advisor and based on the original or adapted BSA threshold.
3. Only in the case of extraordinary circumstances as referred to in Article 5.4.1 can, if no assessment can be made at the end of the first year with regard to a student's suitability for the degree programme, this assessment be postponed until a later date within the propaedeutic phase.
4. Postponed advice will be issued no later than by the end of the second year of registration for the degree programme, and in no case later than 31 July.
  - a. The advice will be positive if the (possibly adapted) threshold has been passed.
  - b. The advice will be negative (and binding) if the student in question still fails to pass the (possibly adapted) BSA threshold in the propaedeutic phase.
5. Circumstances as referred to in Article 5.4.1 do not automatically lead to a successful application for a grant from the Graduation Fund.



### **Article 5.5 Procedure for issuing a definitive study advice**

1. The definitive study advice is issued by the Faculty Board on behalf of the Board of the University. The decision will also state the applicable safeguards of legal rights.
2. Before a binding (negative) study advice is issued, students will receive notice of the intention to issue one, after which they will be given the opportunity to put their case to the Faculty Board or its representative.

### **Article 5.6 Consequences of a binding (negative) study advice**

1. Students who have received a binding (negative) study advice may not register for the degree programme, or for any other degree programme in the cluster of related degree programmes listed in Appendix VI, for a period of 2 years from 1 September of the next academic year.
2. Students who have been issued a binding (negative) study advice are not permitted to follow course units in this degree programme via a different degree programme or educational institution in order to avoid the consequences of their binding (negative) study advice. No exemptions will be granted for course units completed in this way, nor will such completed course units be recognized within the framework of the degree programme in any other way.

## **Section 6 Admission to the post-propaedeutic phase of the degree programme**

### **Article 6.1 Admission to the post-propaedeutic phase**

1. The following candidates will be admitted to the post-propaedeutic phase of the degree programme:
  - a. Students who have been issued a positive study advice from the degree programme in question
  - b. Students who have been issued a positive study advice from one of the degree programmes listed in Appendix VII.
2. The Admissions Board may grant an exemption for the requirement stipulated in Article 6.1.1. to the holder of a diploma gained in the Netherlands or elsewhere and considered by the Admissions Board to be at least equivalent to the propaedeutic certificate referred to in Article 6.1.1.
3. Notwithstanding Article 6.1.1, the requirement that a previous course unit must have been successfully completed may apply to some individual course units. This compulsory order of course units is set out in the digital University course catalogue OCASYS and in Article 9.2 of the Teaching and Examination Regulations.
4. Students must have successfully completed the propaedeutic phase of the degree programme to be admitted to the Minor of the degree programme.



### **Article 6.2 Admission to the post-propaedeutic phase: hardship clause**

The Board of Examiners may deviate from the stipulations of Article 6.1.1 in situations where changes to the curriculum or educational force majeure would demonstrably lead to a situation of unfairness of an overriding nature. This is only possible in unique personal circumstances that are so unusual that admission cannot in all reasonableness be denied.

### **Article 6.3 Study plan**

All students whose study advice has been postponed (whether or not combined with an adaptation of their BSA threshold) as referred to in Article 5.4 are expected to draw up a study plan in consultation with their academic advisor, comprising at least the following:

- 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.

## **Section 7 The post-propaedeutic phase of the degree programme**

### **Article 7.1 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 or 105 ECTS)
  - b. Major related minor (30 ECTS) or a Personal/University Minor (2x15 or 30 ECTS).

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

2. Students can fill in their Minor slot with the following components:
  - a research traineeship
  - a placement/internship
  - a study period at another university (national or abroad)
  - a broadening or deepening Minor, comprising course units from outside their own major.
3. Any deviations from the set of post-propaedeutic course units referred to in Article 7.1.1.a and the filling in of the minor slot referred to in Article 7.1.1.b must be presented to the Board of Examiners for approval.
4. All course units and their modes of instruction are listed in the digital University course catalogue OCASYS.

### **Article 7.2 Post-propaedeutic practicals**

1. The post-propaedeutic course units referred to in Article 7.1.1.a and listed in Appendix IV to these Regulations may be taught in the form of lectures and may 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.

### **Article 7.3 Substitutions and electives followed elsewhere**

1. Following a substantiated request by a student, the Board of Examiners may grant permission to:
  - a. replace a course unit in the examination programme with another course unit offered by the University of Groningen or another university in the Netherlands or abroad that dovetails well with the degree programme, or
  - b. use one or more course units followed at the University of Groningen or another university in the Netherlands or abroad as electives in the degree programme.
2. When assessing such a request, the Board of Examiners will in any case evaluate the coherence of the set of course units (or parts thereof) and the level of the course units followed.

## **Section 8 Other programmes**

### **A. Minor**

#### **Article 8.1 Minor**

1. The Minor framework can be filled using any of the options listed in Article 8.1.2.
2. Students can choose between:
  - a. a University Minor
  - b. a Personal Minor.

#### **Article 8.2 University Minor**

1. A University Minor is a coherent set of broadening course units that students can follow either at their own or a different Faculty.
2. Students who choose to fill their Minor framework with a University Minor do not need explicit permission from the Board of Examiners.

#### **Article 8.3 Personal Minor**

1. A personal Minor is a coherent set of broadening or deepening course units that students can compile themselves and follow either at their own or a different Faculty.
2. The demand of a coherent set does not apply to the Personal Minor when this will be filled with a study period at a university abroad.
3. Personal Minors must be presented to the Board of Examiners for approval in advance.



#### Article 8.4 Authority of the Board of Examiners with regard to the Minors

1. Students must present their choice of Minor to the Board of Examiners of their own degree programme for approval, except if they choose a University Minor in accordance with Article 8.2.2.
2. Minors followed in other degree programmes or at other faculties or institutes of higher education are subject to the authority of the Board of Examiners of the degree programme that sets the relevant examinations.
3. Minors in the degree programme followed by students of other degree programmes, faculties or institutes of higher education are subject to the authority of the Board of Examiners of the degree programme.
4. A responsible Board of Examiners will be assigned in the event of inter-faculty University Minors.

#### Article 8.5 University Minors of the faculty of Science and Engineering

1. In the academic year 2019-2020, the Faculty of Science and Engineering offers three University Minors. Their content, student workload and responsible committees are set out in Appendix IX.
2. The entry requirements for these Minors are set out in Article 6.1.4 and in OCASYS.
3. The Minors are taught in English, unless indicated otherwise.

#### Article 8.6 Educative minor and supplementary teaching qualification

1. A bachelor's degree of one of the degree programmes in the table, in combination with the educative minor, provides the qualification to teach in the school subject (at levels vmbo-tl and lower levels havo-vwo). This concerns a limited qualification.

CROHO	Bachelor's degree programme	School subject
56860 B	Biology	Biology
56978 B	Computing Science	Computing Science
50206 B 56962 B 50205 B	Physics Applied Physics Astronomy	Physics
56857 B 56960 B 56286 B 56157 B	Chemistry Chemical Engineering Life Science and Technology (chemical track) Farmacie	Chemistry
56980 B 56965 B 50205 B	Mathematics Applied Mathematics Astronomy Physics Applied Physics	Mathematics



2. The Educative Minor is Dutch-taught and organized by the department of Teacher Education. The Teaching and Examination Regulations of the faculty of Behavioural and Social Sciences apply.

## **B. Honours programme**

### **Article 8.7 Bachelor's Honours programme**

1. The Faculty participates in the Bachelor's Honours Programme organized by the University of Groningen Honours College. The Honours Programme does not form part of the regular Bachelor's curriculum.
2. Students admitted to one of the Bachelor's degree programmes offered by the Faculty can participate in the Bachelor's 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 Bachelor's Honours Programme has a total student workload of 45 ECTS credit points, divided over the three years of the Bachelor's programme. The Bachelor's Honours Programme, including the deepening Faculty part, is subject to the Teaching and Examination Regulations of the University of Groningen Honours College.
4.
  - a. As the Honours Programme is not part of the regular Bachelor's curriculum, the results and marks do not count towards the awarding of an honours predicate for the bachelor's programme.
  - b. The Diploma Supplement that accompanies the Bachelor's degree certificate will also list the results gained in the Bachelor's Honours Programme.

## **C. Pre-Master's programmes**

### **Article 8.8 Pre-Master's programmes**

1. The Faculty offers Pre-Master's programmes to facilitate entry into a Faculty Master's degree programme.
2. Students who enrol in a Pre-Master's programme are registered in the therefore appointed Bachelor's degree programme.
3. The Admissions Board on a case-by-case basis determines the content and study workload of the Pre-master's programme.
4. The Admissions Board of the desired Master's degree programme will decide whether students are admitted to the Pre-master's programme.
5. Students must complete the Pre-master's programme within one year.
6. The Board of Examiners of the student's bachelor's degree programme has the authority to decide in matters concerning course units in the Pre-master's programme.
7. The stipulations concerning Pre-Master's programmes in the *University of Groningen Regulations for Registration and Tuition Fees 2019-2020* apply.





## Section 9 Examinations of the degree programme

### Article 9.1 General

1. Each course unit is assessed by means of an examination.
2. The examination assesses the student's sufficient academic development and mastery of the learning outcomes of the course unit.
3. 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 9.2 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 IV to these Regulations provides an overview of course units to which this stipulation applies.

### Article 9.3 Examination frequency and periods

1. There will be an opportunity to sit the examinations for the course units listed in Articles 4.1 and 7.1 twice per academic year.
2. The periods in which examinations can be sat are listed via a link in OCASYS to the schedules.
3. 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.
4. Contrary to the provisions of Article 9.3.1, for course units which are not taught in a specific academic year, standard examination opportunities will be offered in that same year.
5. Contrary to the provisions of Article 9.3.1, 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 9.4 Form of examinations

1. Examinations will be taken in the manner stated in OCASYS.
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 9.4.1.
3. For each written examination, representative questions will be available to practise.



#### **Article 9.5 Examination provisions in special circumstances**

1. If refusing a student an individual examination provision would lead to an 'exceptional instance of unfairness of overriding nature', the Board of Examiners may decide to grant such a provision contrary to the stipulations of Article 9.3.
2. Requests for individual examination provisions, including documentary evidence, must be submitted to the Board of Examiners as soon as possible.

#### **Article 9.6 Authority of the Board of Examiners regarding electives offered by other degree programmes**

1. A request to take an elective at another degree programme must be approved by the Board of Examiners of the student's own degree programme.
2. The Board of Examiners of the other degree programme is authorized to set and assess the examinations and decide upon requests for alternative exam regulations. Article 9.7.2 applies.

#### **Article 9.7 Examinations and functional impairments**

1. Students with a functional impairment will be given the opportunity to take examinations in a way that is tailored to their impairment as much as possible. The Board of Examiners seeks expert advice from a student counsellor of the Student Service Centre (SSC) before making a decision.
2. With regard to examinations for electives taken by students with a functional impairment, the Board of Examiners of the degree programme that sets the examination shall comply with the facilities permitted by the Board of Examiners of the degree programme for which the student has registered.

#### **Article 9.8 Oral examinations**

1. Unless the Board of Examiners decides otherwise, an oral examination may only be taken by one student at a time.
2. An oral examination is attended by an independent observer with sufficient knowledge of the content of examined topic(s).

#### **Article 9.9 Marking of examinations and publication thereof**

1. After an oral examination, the examiner will assess the examination immediately and submit the result to the Faculty's administration department (ESC).
2. The examiner will mark a written examination within 10 working days of the day on which it was taken, and will provide the Faculty's administration department (ESC) with the necessary details for registration of the result in Progress.
3. Written examinations for propaedeutic course units specified by the Director of the Undergraduate School of Science (USS) will be assessed within 5 working days of the day on



which they were taken. The examiner will provide the Faculty's administration department (ESC) the necessary details of the result for registration and determination whether a binding (negative) study advice is in order.

4. The examiner will assess 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 assessing period of no more than one month. The examiner will provide the Faculty's administration department (ESC) with the necessary details for registration of the result.
5. 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.
6. Students can lodge an appeal against the results of an examination with the Central Portal for the Legal Protection of Student Rights (CLRS) within 6 weeks of the date on which the result was announced.

#### **Article 9.10 Validity**

1. Examinations that have been passed remain valid indefinitely.
2.
  - a. Contrary to the provision of Article 4.12.1, the Board of Examiners may decide that the validity of a passed examination is limited. Conformable to article 7.10.4 of the Act, the Board of Examiners can only decide a passed examination is no longer valid if the examined knowledge or the examined understanding is demonstrably outdated or if the examined skills are demonstrably outdated.
  - b. In the event of extraordinary personal circumstances the validity term will be extended for the period during which the student in question is receiving support from the Graduation Fund.

#### **Article 9.11 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 announced.
2. Within the time frame stipulated in Article 9.11.1, any participant in the examination may request that they be allowed to peruse the questions and assignments of the examination under consideration as well as the assessment criteria.
3. The Board of Examiners can determine that this inspection or perusal will take place at a certain place and at least at two set times. This inspection and perusal may be organized collectively.
4. Students who can show that they were prevented by force majeure from attending at the indicated places and times will be offered another opportunity, if possible within the period stated in Article 9.11.1.



### **Article 9.12 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 (or part thereof) on condition that the student:
  - a. has completed a course unit of an academic or higher vocational degree that is equivalent in content and level, or
  - b. can demonstrate by work experience that he has acquired sufficient knowledge and skills with respect to the course unit in question.
2. The validity period of exemptions granted for course units or parts thereof is identical to that of examination results.
3. The Board of Examiners may also grant exemption from participation in practical exercises. Such exemptions can be granted, for example, based on recognized conscientious objections. In such cases, the Board of Examiners will determine the way the practical exercise has to be performed.
4. Article 3.5 applies to granting exemptions.

### **Article 9.13 Board of Examiners and examiners**

1. The Board of Examiners is the independent body that determines whether individual students have the knowledge, understanding and skills required to be awarded the degree.
2. The Faculty Board appoints the members of the Board of Examiners on the basis of their expertise in the field of the degree programme (or cluster of degree programmes) in question.
3. The Board of Examiners must comprise at least:
  - a. one member who is a lecturer in the degree programme (or in one of the degree programmes that are part of the relevant group of degree programmes)
  - b. one member from outside the degree programme (or one of the degree programmes that are part of the relevant group of degree programmes).
4. The Board of Examiners will appoint examiners to set examinations and determine the results.
5. The Board of Examiners must set out in the Rules and Regulations of the Board of Examiners rules for assessing and determining the results of examinations and final assessments.

### **Article 9.14 Cheating and plagiarism**

1. Cheating is an act or omission by a student designed to partly or wholly hinder the forming of a correct assessment of his or her own or someone else's knowledge, understanding and skills.
2. Cheating also includes plagiarism, which is copying someone else's or own work, insights and skills without correct reference to the source.



3. If a student cheats, the Board of Examiners may exclude that student from participation in one or more examinations or final assessment for a maximum of one year.
4. In the event of very serious cheating, the Board of Examiners may propose to the Board of the University to terminate the student's registration definitively.
5. The Board of Examiners will set out its course of action in the event of fraud in its Rules and Regulations.

#### **Article 9.15 Invalid examination**

In the event of irregularities with regard to an examination that are so serious that an accurate assessment of the examinee's knowledge, understanding and skills cannot be made, the Board of examiners may declare the examination invalid for either an individual examinee or a group of examinees.

#### **Article 9.16 Termination of enrolment**

1. In cases of serious reprehensible behaviour or statements made by a student, the Board of the University may in certain cases, on the recommendation of the Board of Examiners or from the Faculty Board, terminate that student's registration.
2. The Board of the University will not make a decision as referred to in the first paragraph until after the student in question has been given an opportunity to put their case forward, any interests of the student and of the institution have been carefully assessed and it has been proven reasonable to assume that the student's behaviour and/or statements prove that they are unsuitable for one or more of the professions for which they are being trained in their degree programme, or for the practical preparation for the 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.
3. The stipulations in the *University of Groningen Regulations for registration and Tuition fees 2019-2020* apply.

## **Section 10 Final assessment of the degree programme**

#### **Article 10.1 Final assessment**

1. The degree programme is concluded with a final assessment.
2.
  - a. On the condition that the student's study programme has been approved, the Board of Examiners will determine the result of the final assessment as soon as the student has passed all the required examinations. The Board of Examiners may define terms to this end. If the final assessment results in a pass, the student has proven to have acquired the necessary academic training.
  - b. If a student exceeds the relevant deadlines for approval of the study programme referred to under a, the Board of Examiners may postpone his or her graduation date. This date may then be in the academic year following the year in which the last examination was passed.



3. Before the final assessment can be determined, the Board of Examiners may decide to test the student's knowledge of one or more course units or components of the degree programme, if and in as much as the marks for these course units provide a reason for doing so.
4. By determining the result of the final assessment, the Board of Examiners also commits itself to a speedy processing of the degree certificate ceremony.
5. 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.
6. The graduation date is the date on which the final assessment is passed, as determined by the Board of Examiners in accordance with the provisions of Article 10.1.2, and not the date on which the degree certificate is presented to the student.
7. The successfully passed final assessment as referred to in Article 10.1.1, and all assignments submitted within the framework of this assessment, will be kept on file by the Faculty Board for a period of at least 7 years.

#### **Article 10.2 Degree certificate**

1. Students shall receive a certificate issued by the Board of Examiners as a proof that they have passed the final examination. Even if a student successfully completes more than one specialization within the degree programme, he/she will receive only one degree certificate. Article 3.5 applies.
2. The Board of Examiners will issue an International Diploma Supplement with each degree certificate.
3. The Major and Minor followed will be stated in the Diploma Supplement that accompanies the Bachelor's degree certificate.
4. If relevant, the results obtained in the Bachelor's Honours Programme will also be stated in the Diploma Supplement that accompanies the Bachelor's degree certificate.

#### **Article 10.3 Degree**

1. Students who have successfully passed the final assessment are awarded the degree 'Bachelor of Science'.
2. The degree awarded will be indicated on the degree certificate.

#### **Article 10.4 Honours ('Cum Laude'/'Summa Cum Laude')**

1. The Board of Examiners will determine whether or not the certificate will be awarded an honours predicate.
2. To the Bachelor's degree programme certificate the following conditions apply.  
For the predicate 'Cum Laude':
  - a) The mark for the Bachelor's project must be at least 8.0, and



- b) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners, excluding the Bachelor's project, must be at least 8.0.

For the predicate 'Summa Cum Laude':

- a) The mark for the Bachelor's project must be at least 9.0, and
  - b) The weighted average (not rounded off) for all course units within the examination programme approved by the Board of Examiners, excluding the Bachelor's project, must be at least 9.0.
3. No honours are 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. This stipulation does not apply to double degree programmes.
  4. Honours may only be awarded if the examinations for the course units were taken only once.
  5. Honours may only be awarded if no single course unit was awarded a mark less than 7.0.
  6. No honours are awarded if a decision by the Board of Examiners has been taken to the effect that a student is no longer eligible for an honours predicate because fraud/plagiarism has been detected.
  7. In certain circumstances, the Board of Examiners may depart from the provisions set out in Articles 10.4.2-6.

### **Article 10.5 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 with their student workload in ECTS, and the learning outcomes of each course unit
3. the relationship between course units and learning outcomes
4. the assessment mode to be used and the test moments for each course unit
5. the test design and assessment procedures and assessment criteria used
6. the responsibilities in terms of implementing the various elements of the assessment policy
7. the method of regular evaluation.

## **Section 11 Study progress supervision**

### **Article 11.1 Study progress administration**

1. The Faculty Board registers individual study results for the students.
2. The Faculty's administration department (ESC) upon a student's request will provide authenticated overviews.





### **Article 11.2 Study progress supervision**

The Faculty Board will organize the introduction and the study progress supervision for students enrolled in the degree programme, partly to promote their progress and also with a view to potential study options within and outside the degree programme.

## **Section 12 Transitional and final provisions**

### **Article 12.1 Transitional arrangement**

The transitional arrangement of substitute course units are listed in appendix X.

### **Article 12.2 Amendments**

1. Any amendments to these Regulations will, following a recommendation by and/or upon the approval of the Programme Committee and in consultation with – and where necessary upon the approval of – the Faculty Council, be confirmed by the Faculty Board in a separate decree.
2. Any amendments to these Regulations will 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, an amendment may not influence any other decision concerning a student taken by the Board of Examiners under these Regulations to the detriment of that student.

### **Article 12.3 Publication**

1. The Faculty Board will duly publish these Regulations, any rules and guidelines formulated by the Board of Examiners, and any amendments to these documents.
2. The documents referred to in Article 12.3.1 can be found on the Faculty website via ‘Student Portal’ and ‘My University’.

### **Article 12.4 Evaluation**

The Faculty Board will ensure that the TER is regularly evaluated, assessing at least – for the purpose of monitoring and if necessary adapting the student workload – the amount of time students need to complete their duties as set out therein.

### **Article 12.5 Legal validity**

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



**Article 12.6 Appeal procedure and unexpected events**

1. In exceptional cases or cases not covered by these regulations, the Board of Examiners shall have the final say.
2. Appeals against decisions made by an examiner or a Board of Examiners may be filed with the Board of Appeal for Examinations.

**Article 12.7 Date of commencement**

These Regulations were decreed by the Faculty Board and approved by the Faculty Council and shall take effect on 1 September 2019.



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



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**Appendix I      Learning outcomes of the Bachelor's degree  
 programme  
 (Article 3.1.1)**



## **Appendix II Majors and Minors of the degree programme (Article 3.7.4)**

The degree programme has the following Major(s):

....

The degree programme has the following Minor(s):

....



### Appendix III Course units in the propaedeutic phase

- List of course units; Article 4.1.1
- Compulsory order of examinations; Article 9.2

Course unit name	ECTS	Practical	Entry requirements



## **Appendix IV Course units in the post-propaedeutic phase**

- **List of course units; Article 7.1.1**
- **Compulsory order of examinations; Article 9.2**

<b>Course unit name</b>	<b>ECTS</b>	<b>Practical</b>	<b>Entry requirements</b>





## Appendix V Entry requirements (Article 2.1, article 2.2)

### A. Deficient VWO-diploma

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

<b>Bacheloropleiding</b> <i>Bachelor's degree programme</i>	<b>N+T</b>	<b>N+G</b>	<b>E+M</b>	<b>C+M</b>
<b>Biologie</b> <i>Biology</i>	Biologie	Natuurkunde	Wiskunde A of B Natuurkunde Scheikunde Biologie	Wiskunde A of B Natuurkunde Scheikunde Biologie
<b>Farmacie</b> <i>Pharmacy</i>	V	Natuurkunde	Natuurkunde Scheikunde	Wiskunde A of B Natuurkunde Scheikunde
<b>Life Science and Technology</b>  <b>Scheikunde</b> <i>Chemistry</i> <b>Scheikundige Technologie</b> <i>Chemical Engineering</i>	V	Wiskunde B Natuurkunde	Wiskunde B Natuurkunde Scheikunde	Wiskunde B Natuurkunde Scheikunde
<b>Biomedische Technologie (in oprichting)</b> <i>Biomedical Engineering</i>	V	Wiskunde B Natuurkunde	Wiskunde B Natuurkunde	Wiskunde B Natuurkunde
<b>Informatica</b> <i>Computing Science</i> <b>Technische Bedrijfskunde</b> <i>Industrial Engineering and Management</i> <b>(Technische) Wiskunde</b> <i>(Applied) Mathematics</i>	V	Wiskunde B	Wiskunde B	Wiskunde B
<b>Kunstmatige Intelligentie</b> <i>Artificial Intelligence</i>	V	V	V	Wiskunde A of B
<b>(Technische) Natuurkunde</b> <i>(Applied) Physics</i> <b>Sterrenkunde</b> <i>Astronomy</i>	V	Wiskunde B Natuurkunde	Wiskunde B Natuurkunde	Wiskunde B Natuurkunde



- The Admissions Board Bachelor's programmes FSE will determine whether deficiencies have been compensated satisfactorily.

**B. HBO (university of applied sciences) or academic propaedeutic certificate**

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

<b>Bachelor's degree programme</b>	<b>Subjects at VWO (pre-university) level</b>
B Biology	wia or wib + na+sk+bio
B Pharmacy	wia or wib + na+sk
B Life Science and Technology	wib+na+sk
B Biomedical Engineering	wib + na
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

- In addition, candidates are required to be competent in English:

<b>Score -&gt;</b>	<b>Overall</b>	<b>Reading</b>	<b>Listening</b>	<b>Speaking</b>	<b>Writing</b>
<b>Test</b>					
<b>IELTS (Academic)</b>	6.5	6.5	6.5	6.5	6.5
<b>TOEFL IBT (internet-based)</b>	90	21	21	21	24
<b>Cambridge English</b>	CAE or CPE Certificate with a minimum score of 180				
<b>English language test – TC UG</b>	n/a	B2	B2	B2	C1

Applicants with a Dutch VWO or equivalent diploma are exempt for an English language test as are native English speakers.



3. The Admissions Board Bachelor programmes FSE will determine whether deficiencies have been compensated satisfactorily.

### **C. Foreign qualifications (EEA)**

1. Any certificate that grants access to a university in a European country will also grant access to Dutch universities.
2. In the entrance examination, as referred to in art. 7.28, paragraph 3 of the Act, per country and educational institution specific training conditions are mentioned. These are standardized. The entrance examination is, in accordance with the Admissions Board Bachelor's programmes FSE, carried out by the Admissions Office. If for a specific diploma no standardisation has taken place then the requirements as formulated for candidates with a 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. In addition, candidates are required to be competent in English:

<b>Score -&gt;</b>	<b>Overall</b>	<b>Reading</b>	<b>Listening</b>	<b>Speaking</b>	<b>Writing</b>
<b>Test</b>					
<b>IELTS (Academic)</b>	6.5	6.5	6.5	6.5	6.5
<b>TOEFL IBT (internet-based)</b>	90	21	21	21	24
<b>Cambridge English</b>	CAE or CPE Certificate with a minimum score of 180				
<b>English language test – TC UG</b>	n/a	B2	B2	B2	C1

Applicants with a Dutch VWO or equivalent diploma are exempt for an English language test as are native English speakers.

4. The Admissions Board Bachelor's programmes FSE will determine whether deficiencies have been compensated satisfactorily.

### **D. 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. In the entrance examination, as referred to in art. 7.28, paragraph 3 of the Act, per country and educational institution specific training conditions are mentioned. These are standardized. The entrance examination is, in accordance with the Admissions Board Bachelor's programmes FSE, carried out by the Admissions Office. If for a specific diploma no standardisation has taken place then the requirements as formulated for candidates with a 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. In addition, candidates are required to be competent in English:

Score ->	Overall	Reading	Listening	Speaking	Writing
<b>Test</b>					
<b>IELTS (Academic)</b>	6.5	6.5	6.5	6.5	6.5
<b>TOEFL IBT (internet-based)</b>	90	21	21	21	24
<b>Cambridge English</b>	CAE or CPE Certificate with a minimum score of 180				
<b>English language test – TC UG</b>	n/a	B2	B2	B2	C1

Applicants with a Dutch VWO or equivalent diploma are exempt for an English language test as are native English speakers.

4. The Admissions Board Bachelor's programmes FSE will determine whether deficiencies have been compensated satisfactorily.

### E. Entrance examination (Colloquium Doctum)

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 or 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. In addition, candidates are required to be competent in English:

<b>Score -&gt;</b>	<b>Overall</b>	<b>Reading</b>	<b>Listening</b>	<b>Speaking</b>	<b>Writing</b>
<b>Test</b>					
<b>IELTS (Academic)</b>	6.5	6.5	6.5	6.5	6.5
<b>TOEFL IBT (internet- based)</b>	90	21	21	21	24
<b>Cambridge English</b>	CAE or CPE Certificate with a minimum score of 180				
<b>English language test – TC UG</b>	n/a	B2	B2	B2	C1

Applicants with a Dutch VWO or equivalent diploma are exempt for an English language test as are native English speakers.

3. The Admissions Board Bachelor's programmes FSE will determine whether deficiencies have been compensated satisfactorily.



## Appendix VI Clustering of Bachelor's degree programmes Article 5.3.4, Article 5.6.1

Degree programme CROHO code	Name of degree programme	Clustered with CROHO code	Name of degree programme
56286	B Life Science and Technology	56860 56157 56226	B Biology B Pharmacy B Biomedical Engineering (in formation)
56860	B Biology	56286  56157 56226	B Life Science and Technology B Pharmacy B Biomedical Engineering (in formation)
56157	B Pharmacy	56860 56286  56226	B Biology B Life Science and Technology B Biomedical Engineering (in formation)
56226	B Biomedical Engineering (in formation)	56860 56286  56157	B Biology B Life Science and Technology B Pharmacy
56980	B Mathematics	56965  50206 56962 50205	B Applied Mathematics B Physics B Applied Physics B Astronomy
56965	B Applied Mathematics	56980 50206 56962 50205	B Mathematics B Physics B Applied Physics B Astronomy
50206	B Physics	56962 50205 56965  56980	B Applied Physics B Astronomy B Applied Mathematics B Mathematics
56962	B Applied Physics	50206 50205 56965  56980	B Physics B Astronomy B Applied Mathematics B Mathematics
50205	B Astronomy	56962 56965	B Applied Physics B Applied Mathematics



		50206 56980	B Physics B Mathematics
56857	B Chemistry	56960	B Chemical Engineering
56960	B Chemical Engineering	56857	B Chemistry





## **Appendix VII Admission to the post-propaedeutic phase Article 5.2.1**

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

- a. Students who have been issued a positive study advice from the degree programme in question
- b. Students who have been issued a positive study advice from one of the degree programmes:



## Appendix VIII Contact hours propaedeutic phase Article 3.6

<b>Degree programme year 1</b>	
<b>Structure contact hours</b>	<b>Contact hours per year</b>
Lectures	
Tutorial	
Tutoring	
Supervision during an internship	
Examinations	



## Appendix IX University Minors of the faculty of Science and Engineering (Article 8.5.1)

1. Neurosciences Minor (taught in English):
  - Neuroscience (15 ECTS)
  - Behavioural Neuroscience (15 ECTS)

Astronomy through Space and Time Minor (taught in English):

- The Evolving Universe (5 ECTS)
- Cosmic Origins (5 ECTS)
- Astrobiology (5 ECTS)

Einstein's physics: Space-time and parallel worlds (taught in English):

- Einstein's Universe (5 ECTS)
- Quantum World (5 ECTS)
- Building blocks of matter (5 ECTS)

*Future Planet Innovation (taught in English): (not offered in the academic year 2019-2020)*

- *Global Challenges (10 ECTS)*
- *Sustainability in perspective (5 ECTS)*
- *Sustainable contributions to society (15 ECTS)*

2. The Programme Committee for the Bachelor's degree programmes in Biology and Life Science and Technology also has authority in the field of the Minor "Neurosciences" and/or its course units.

The Programme Committee for the Master's degree programme in Energy and Environmental Sciences also has authority in the field of the Minor "Future Planet Innovation" and/or its course units.

The Programme Committee for the Bachelor's degree programme in Astronomy also has authority in the field of the Minor "Astronomy through Space and Time" and/or its course units.

The Programme Committee for the Bachelor's degree programmes in Physics and Applied Physics also has authority in the field of the Minor "Einstein's physics: Space-time and parallel worlds" and/or its course units.

3. The Board of Examiners for the Bachelor's degree programmes in Biology and Life Science and Technology and the Master's degree programmes in Biology, Ecology and Evolution, Marine Biology and Molecular Biology and Biotechnology also has authority in the field of the Neurosciences Minor and/or its course units.



The Board of Examiners for the Master's degree programme in Energy and Environmental Sciences also has authority in the field of the "Future Planet Innovation" Minor and/or its course units.

The Board of Examiners for the Bachelor's degree programme in Astronomy also has authority in the field of the Astronomy through Space and Time Minor and/or its course units.

The Board of Examiners for the Bachelor's degree programmes in Physics and Applied Physics also has authority in the field of the Physics Minor "Einstein's physics: Space-time and parallel worlds" and/or its course units.

4. These Teaching and Examination Regulations also apply in their entirety to the Minors in Neurosciences, Future Planet Innovation (not offered in the academic year 2019-2020), Astronomy through Space and Time and Einstein's physics: Space-time and parallel worlds and/or their course units.



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faculty of science  
 and engineering

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## **Appendix X Transitional arrangement (article 12.1)**