



# **Teaching and Examination Regulations (TER)**

## **Faculty of Science**

### **Masterprogramme in Biomedical Technology and Physics**

**Academic year: 2019-2020**

- A: Faculty section
- B1: Programme specific section – general provisions
- B2: Programme specific section – content of programme

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## Section A: Faculty Section

### 1. General provisions

#### Article 1.1 Applicability of the Regulations

<p>1. These Regulations apply to anyone enrolled for the programme, irrespective of the academic year in which the student was first enrolled for the programme. These Regulations apply to the teaching and examinations for the following Master's degree programmes:</p> <ul style="list-style-type: none"> <li>▪ Artificial Intelligence</li> <li>▪ Bioinformatics and System Biology</li> <li>▪ Biomedical Sciences</li> <li>▪ Biomolecular Sciences</li> <li>▪ Business Analytics</li> <li>▪ Computer Science</li> <li>▪ Drug Discovery and Safety</li> <li>▪ Earth Sciences</li> <li>▪ Ecology</li> <li>▪ Environment and Resource Management</li> <li>▪ Global Health (research)</li> <li>▪ Health Sciences</li> <li>▪ Hydrology</li> <li>▪ Information Sciences</li> <li>▪ Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences</li> <li>▪ Mathematics</li> <li>▪ Medical Natural Sciences</li> <li>▪ Neurosciences (research)</li> <li>▪ Parallel and Distributed Computer Systems</li> <li>▪ Science Business and Innovation</li> <li>▪ Stochastics and Financial Mathematics</li> </ul>	<p>Advice OLC, approval FGV (9.38 ub b)</p>
<p>2. These Regulations enter into force with effect from 1 September 2019.</p>	<p>Advice OLC, approval FGV (9.38 ub b)</p>
<p>3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this does not demonstrably damage the interests of students.</p>	<p>Advice OLC, approval FGV (9.38 sub b)</p>

#### Article 1.2 Definitions

The following definitions are used in these Regulations (*in alphabetical order*):

- a. academic year: the period beginning on 1 September and ending on 31 August of the following calendar year;
- b. CvB: the Executive Board of Vrije Universiteit Amsterdam.
- c. Double degree programme: joint programme in the context of cooperation between Vrije Universiteit Amsterdam and the educational institution within and outside the EU, as to gain a double university degree; of the VU and the educational institution concerned; though not being the same as a 'joint degree programme' according to the art. 7.3c WHW';
- d. EC (European Credit): an EC credit with a workload of 28 hours of study;
- e. educational component: a unit of study of the programme within the meaning of the WHW;
- f. examination: the final examination of the Master's programme;
- g. exemption: Exemption from an examination/ practical/ fieldwork based on an earlier successfully completed examination, or knowledge / skills of a similar content, level and scope gained outside higher education;
- h. FGV: Faculty joint assembly – assembly of the faculty student council and faculty staff

	council;
i. interim examination:	an assessment of the student's knowledge, understanding and skills relating to a course component. The assessment is expressed in terms of a final mark. An interim examination may consist of one or more partial examinations. A resit always covers the same material as the original interim examination;
j. joint degree:	a degree awarded by an institution together with one or more institutions in the Netherlands or abroad, after the student has completed a study programme (a degree programme, a major or a specific curriculum within a degree programme) for which the collaborating institutions are jointly responsible;
k. OLC:	programme committee;
l. period:	a part of a semester;
m. practical exercise:	the participation in a practical training or other educational learning activity, aimed at acquiring certain (academic) skills. Examples of practical exercises are: <ul style="list-style-type: none"> <li>o researching and writing a thesis or dissertation</li> <li>o carrying out a research assignment</li> <li>o taking part in fieldwork or an excursion</li> <li>o taking part in another educational learning activity aimed at acquiring specific skills, or</li> <li>o participating in and completing a work placement;</li> </ul>
n. premaster student	those who enroll in a premaster programme;
o. Programme:	the totality and cohesion of the course components, teaching activities/methods, contact hours, testing and examination methods and recommended literature;
p. SAP/SLM:	the student information system ( <i>Student Lifecycle Management</i> );
q. semester:	the first (September - January) or second half (February - August) of an academic year;
r. study guide:	the guide for the study programme that provides further details of the courses, provisions and other information specific to that programme. The Study Guide is available electronically at: <a href="https://www.vu.nl/studiegids">https://www.vu.nl/studiegids</a>
s. subject	see 'educational component';
t. substituting course/educational component	see under d (double degree programme). A course obtained at the educational institute, within the context of cooperation, that is mentioned in the diploma supplement as such; not being an 'exemption'.
u. thesis/ internship work placement	a component comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
v. university:	Vrije Universiteit Amsterdam;
w. WHW:	the Dutch Higher Education and Research Act ( <i>Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek</i> );
x. workload:	the workload of the unit of study to which an interim examination applies, expressed in terms of credits = EC credits (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1,680 hours) is 60 EC credits.

The other terms have the meanings ascribed to them by the WHW.

## 2. Study programme structure

### Article 2.1 Structure of academic year and educational components

1. The study programme will be offered in a year divided into two semesters.	Ordinance CvB, see appendix 3
2. Every semester consists of three consecutive periods of eight, eight and four weeks.	Ordinance CvB, see appendix 3
3. An educational component comprises 6 EC or a multiple thereof.	Ordinance CvB,

	see appendix 3
4. By way of exception to paragraph 3, Section B may stipulate that a unit of study comprises 3 EC or a multiple thereof. The Faculty Board requests permission from the Executive Board.	Ordinance CvB, see appendix 3

#### Article 2.2 Refusal or termination of registration / (iudicium abeundi)

1. Pursuant to the provisions of Article 7.42a of the Act, the Faculty Board or the Examination Board may, in exceptional circumstances, request the Executive Board to terminate or refuse a student's registration on a programme. This may be the case if the student's conduct or statements demonstrate his or her unsuitability to work in the relevant field or discipline, or to take part in the programme's practical training component.	WHW
2. If a student is suspected of being unsuitable as described in paragraph 1, the Examination Board or the Faculty Board will examine the case, and the student will be informed of this immediately. The Examination Board or the Faculty Board will only issue a recommendation after careful consideration of the interests involved and following a hearing with the student concerned.	WHW

### 3. Assessment and Examination

#### Article 3.1 Signing up for education and interim examinations

1. Every student must sign up to participate in the educational components of the programme, the examinations and resits. The procedure for signing up is described in an annex to the Student Charter.	Ordinance CvB, see appendix 3
2. Signing up may only take place in the designated periods.	Ordinance CvB, see appendix 3
3. If a student does not pass the examination and the resit of a component, he/ she is obliged to take the whole component again. This rule does not apply to practical exercises and programmes that make use of component marks that retain their validity. For further regulations see Section B of the programme involved.	Advice OLC, approval FGV (7.13 x)

#### Article 3.2 Type of examination

1. At the student's request, the Examination Board may permit a different form of interim examination than that stipulated in the course catalogue. If applicable, more detailed regulations on this are included in the Rules and Guidelines for the Examination Board.	Advice OLC, Approval FGV (7.13 l)
2. In an educational component is no longer offered in the academic year following its termination, at least one opportunity will be provided to sit the interim examination(s) or parts thereof and a transitional arrangement will be included in the programme-specific section for the subsequent period.	Advice OLC, approval FGV (7.13 j)

#### Article 3.3 Oral interim examinations

1. An oral assessment is public unless the Examinations Board on request determines otherwise.	Advice OLC; approval FGV (7.13 l and n)
2. An oral examination will be taken in the presence of a second examiner.	Advice OLC, approval FGV (art. 9.38 par. b)

#### Article 3.4 Determining and announcing results

1. The examiner determines the result of a written interim examination as soon as possible, but at the latest within fifteen working days. By way of departure from that stipulated in the first clause, the marking deadline for theses, internships / work placements and final assignments is no longer than twenty working days. The examiner will then immediately ensure that the marks are registered and also ensures that the student is immediately notified of the mark, taking due account of the applicable confidentiality standards.	Ordinance CvB, see appendix 3
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2. a. The examiner determines the result (i.e. mark) of an oral examination as soon as possible, though within one working day, after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies. b. The examiner determines the result of an interim examination no later than five working days before the next (interim) examination will be held.	Advice OLC; approval FGV (7.13 o)
3. In the case of alternative forms of oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.	Advice OLC; approval FGV (7.13 o)
4. A student can submit a request for reassessment to the examiner. A request for reassessment does not affect the time period for lodging an appeal.	Advice OLC; approval FGV (9.38 sub b)
5. Together with the result of an examination, the student's attention will also be drawn to their right to inspect the assessed work and have a post-examination discussion as stipulated in Art. 3.9, as well as his/her option to lodge a complaint before the Examination Board, and if necessary, to appeal to the Examinations Appeals Board (in Dutch: COBEX).	

### Article 3.5 Examination opportunities

1. a. Per academic year, two opportunities to take examinations per educational component will be offered. b. The options for retaking practical components, work placements and theses are detailed in the relevant work placement manual, teaching regulations or graduation regulations.	Ordinance CvB, see appendix 3
2. The most recent mark will apply in the event of a resit. A retake is allowed for both passed and failed units of study.	Ordinance CvB, see appendix 3
3. The resit for a (partial) interim examination must not take place within ten working days of the announcement of the result of the (partial) examination being resat.	Advice OLC; approval FGV (7.13 j)
4. The Examination Board may allow a student an extra opportunity to sit an examination if that student: a) is lacking only those credits to qualify for his or her degree; b) has failed the examination during all the previously offered attempts, unless participation in an examination was not possible for compelling reasons.  The extra opportunity can only be offered if it concerns a written examination, a paper or a take home examination. This provision excludes the practical assignments and the Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 15 July. If necessary, the method of examination may deviate from the provisions in the study guide.	Ordinance CvB, see appendix 3

### Article 3.6 Marks

1. Marks are given on a scale from 1 to 10 with no more than one decimal point.	Ordinance CvB, see appendix 3
2. The final marks are given in whole or half points.	Ordinance CvB, see appendix 3
3. Final marks between 5 and 6 will be rounded off to whole marks: up to 5.5 rounded down; from 5.5 rounded up. To pass a course, a 6 or higher is required.  In case the examination of a component consists of two or more parts, each of which are graded separately, the (weighted) mean of these marks (meaning: the final mark) must be rounded off using the following table:	Ordinance CvB, see appendix 3

From	Up to	Grade
1,00	1,25	1
1,25	1,75	1,5
1,75	2,25	2,0
2,25	2,75	2,5

	2,75	3,25	3,0		
	3,25	3,75	3,5		
	3,75	4,25	4,0		
	4,25	4,75	4,5		
	4,75	5,50	5,0		
	5,50	6,25	6,0		
	6,25	6,75	6,5		
	6,75	7,25	7,0		
	7,25	7,75	7,5		
	7,75	8,25	8,0		
	8,25	8,75	8,5		
	8,75	9,25	9,0		
	9,25	9,75	9,5		
	9,75	10,0	10		
4. The Examination Board can allow to use symbols rather than numbers, such as: pass, fail, (un)satisfactory, good, VRS (exemption). In case a student does not take part in any (interim) examination, the examiner will register the mark 'ns' (c.q. no show).					Ordinance CvB, see appendix 3

### Article 3.7 Exemption

1. At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if the student: <ul style="list-style-type: none"> <li>a) has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level;</li> <li>b) has demonstrated through his/her work and/or professional experience that he/she has sufficient knowledge and skills with regard to the relevant course component.</li> </ul> The Examination Board will make a decision within six weeks after receiving the request.	Advice OLC; approval FGV (7.13 r)
2. The Master's thesis, the final work placement (c.q. internship) and the final project (c.q. final paper) are excluded from this exemption possibility.	Advice OLC; approval FGV (9.38 sub b)
3. A maximum of 18 EC for a one one-year master programme and 36 EC for a one two-year master programme can be accumulated through granted exemption. The substituting courses (educational components) are not included.	Advice OLC, approval FGV (art. 7.13 par. 2, under r WHW jo art. 9.38 par. b)

### Article 3.8 Validity period for results

1. The validity period of interim examinations passed and exemption from interim examinations is unlimited, unless otherwise specified in Section B.	WHW
2. The validity period of a partial examination is limited to the academic year in which it was sat or until the end of the unit of study concerned, as stipulated for the relevant unit of study in Section B.	Advice OLC; approval FGV (9.38 sub b)

### Article 3.9 Right of inspection and post-examination discussion

1. For twenty working days after the announcement of the results of a written interim examination, the student can, on request, inspect his or her assessed work, the questions and assignments set in it, as well as the standards applied for marking. The place and time referred to in the previous clause will be announced at the time of the interim examination on VUnet or Canvas.	Advice OLC; approval FGV (7.13 p en q)
2. If a collective post-examination discussion has been organized, individual post-examination discussions will be held only if the student has attended the collective	Advice OLC; approval FGV (7.13 q)



discussion or if the student was unable to attend the collective discussion through no fault of his or her own.	
3. Students who meet the requirements stipulated in paragraph 1 can submit a request for an individual post-examination discussion to the relevant examiner. The discussion shall take place at a time and location to be determined by the examiner.	Advice OLC; approval FGV (7.13 p en q)

#### Article 3.10 Fraud and plagiarism

1. The provisions of the Rules and Guidelines for the Examination Board apply in full.	Ordinance CvB
2. Electronic detection software programmes may be used to detect plagiarism in texts. In submitting a text, the student implicitly consents to the text being saved in the database of the detection programme concerned.	Ordinance CvB

### 4. Academic student counselling and study progress

#### Article 4.1 Administration of study progress and academic student counselling

1. The faculty board is responsible for the correct registration of the students' study results. After the assessment of an educational component has been registered, every student has the right to inspect the result for that component and also has a list of the results achieved at his or her disposal in VUnet.	Advice OLC; approval FGV (7.13 u)
2. Enrolled students are eligible for academic student counselling. Academic student counselling is in any case provided by: <ol style="list-style-type: none"> <li>The Student General Counselling Service</li> <li>Student psychologists</li> <li>Faculty academic advisors</li> </ol>	Advice OLC; approval FGV (7.13 u)

#### Article 4.2 Adaptations for students with a disability

1. A student with a disability can, at the moment of submission to VUnet, or at a later instance, submit a request to qualify for special adaptations with regard to teaching, practical training and interim examinations. These adaptations will accommodate the student's individual disability as much as possible, but may not alter the quality or degree of difficulty of a unit of study or an examination. In all cases, the student must fulfil the exit qualifications for the study programme.	Advice OLC; approval FGV (7.13 m)
2. The request referred to in the first paragraph must be accompanied by a statement from a doctor or psychologist. If possible, an estimate should be given of the potential impact on the student's study progress. In case of a chronic disability a single (one time) request suffices.	Advice OLC; approval FGV (7.13 m)
3. Students who have been diagnosed with dyslexia must provide a statement from a BIG, NIP or NVO registered professional who is qualified to conduct psychological evaluation.	Advice OLC; approval FGV (7.13 m)
4. The faculty board, or on behalf of the faculty board, the educational director, or the programme director, decides on the adaptations concerning the teaching facilities and logistics. The Examination Board will rule on requests for adaptations with regard to examinations.	Advice OLC; approval FGV (7.13 m)
5. In the event of a positive decision in response to a request as referred to in paragraph 1, the student will make an appointment with the study adviser to discuss the details of the provisions.	Advice OLC; approval FGV (7.13 m)
6. A request for adaptations will be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld.	Advice OLC; approval FGV (7.13 m)
7. If the disability justifies an extension of the interim examination time, the Examination Board will grant permission testifying to this entitlement to an extension. If a disability justifies other measures to be taken, the Examination Board will advise the Faculty Board on the necessary measures to be taken.	Advice OLC; approval FGV (7.13 m)
8. The decision as referred to in paragraph 7, is valid for a maximum period of one year with	Advice OLC; approval FGV

the exception for the chronic diseases and disabilities.	(7.13 m)
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## 5. Hardship clause

### Article 5.1 Hardship clause

In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness and unfairness, the faculty board responsible for the study programme will decide, unless the matter concerned is the responsibility of the Examinations Board.	Advice OLC; approval FGV (9.38 sub b)
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### Article 5.2. Publication

1. The faculty board will ensure the appropriate publication of these Regulations and any amendments to them.	WHW
2. The Teaching and Examination Regulations will be posted in the study guide or on VUnet.	WHW

Approved by authorized representative advisory body FGOV of the Faculty of Science on 3 September 2019.

Adopted by the Faculty Board on 30 August 2019.

## Section B1: Programme specific – general provisions

### 6. General programme information and characteristics

#### Article 6.1 Study programme information

1. The programme Biomedical Technology and Physics CROHO number 60800 is offered on a full-time basis.	Advice OLC; approval FGV (7.13 i)
2. The language of instruction is English.	Advice OLC; approval FGV (9.38 b)

#### Article 6.1a. Deviant size of educational component

By way of derogation from art. 2.1 par. 3, the units listed below have deviant size of 3 EC:			Approval OLC (art. 7.13 lid 2, under e), approval CvB
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	
- AM_470707	Ethics in life Sciences	3	
- XM_422613	Major research Project	39	
- XM_0065	Major research Project	30	
- XM_422614	Minor research Project	21	
- XM_42000	Minor research Project	27	
- X_420563	Scientific Writing in English for BTP	3	
- O_MLDIDAC_3	Didactiek3	9	
- O_MLPRAK_3	Praktijk 3	15	
- O_MLPROZ_1	Praktijkonderzoek 1	3	
- O_MLPRAK_2	Praktijk 2	9	

#### Article 6.2 Teaching formats used and modes of assessment

1. The programme uses the teaching formats as specified in the Study Guide.	Advice OLC; approval FGV (7.13 x)
2. The modes of assessment used per educational component are specified in the Study Guide.	Advice OLC; approval FGV (7.13 l)

#### Article 6.3 Academic student counselling

1. The programme offers the following counselling in addition to the student counselling mentioned in Section A: <ul style="list-style-type: none"> <li>▪ Master's coordinator;</li> <li>▪ Academic advisor.</li> </ul>	Advice OLC; approval FGV (7.13 u)
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### 7. Further admission requirements

#### Article 7.1 Intake date(s)

1. The programme starts on September 1. The intake date mentioned in this paragraph ensures that a programme can be completed within the nominal study duration set for the programme.	Advice OLC; approval FGV (9.38 b)
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#### Article 7.2 Admission requirements

1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree obtained at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills: <ul style="list-style-type: none"> <li>▪ <b>knowledge:</b> mathematics, physics and chemistry at least comparable with the bachelor Medische Natuurwetenschappen;</li> </ul>	Partly legal provision & ordinance CvB, see appendix 3. Admission requirements
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<ul style="list-style-type: none"> <li>▪ <b>understanding:</b> mathematics, physics and chemistry at least comparable with the bachelor Medische Natuurwetenschappen;</li> <li>▪ <b>skills:</b> academic communication skills and computer programming and experimental skills at least comparable with the bachelor Medische Natuurwetenschappen.</li> </ul>	excepted from participation in WHW
2. The Admissions Board will investigate whether the applicant meets the admission requirements.	Legal provision

### Article 7.3 Pre-Master's programme

<p>1. a) Students with a Bachelor's degree of a university of applied science (HBO) in a field that corresponds to a sufficient extent with the subject area covered by the Master's programme can request admission to the pre-Master's programme.</p> <p>b) Students with a Bachelor's degree from an institution of academic higher education in a field that does not sufficiently corresponds with the subject area covered by the Master's programme can request admission to the pre-Master's programme.</p>	Advice OLC; approval FGV (9.38 sub b)
2. Not applicable.	Advice OLC; approval FGV (9.38 sub b)
<p>3. The pre-Master's programme comprises a maximum of 30 EC and is typically made up of the following units of study:</p> <ol style="list-style-type: none"> <li>a. Vector calculus (3 EC);</li> <li>b. Optica en optisch waarnemen (6 EC);</li> <li>c. Differentiaal vergelijkingen (6 EC);</li> <li>d. Statistiek (6 EC);</li> <li>e. Thermodynamica (6 EC), or Van Quantum tot molecuul (6 EC).</li> </ol>	Advice OLC; approval FGV (9.38 sub b)
4. A successfully completed pre-Master's programme serves as proof of admission to the specified Master's programme in the subsequent academic year.	Legal provision
5. A candidate can only participate in one pre-Master's programme at the Vrije Universiteit.	Ordinance CvB, see appendix 3

## 8. Interim examinations and results

### Article 8.1 Sequence of interim examinations

<p>1. Students may participate in interim examinations [or practical exercises] of the components below only if they have passed the interim examination or examinations for the components mentioned hereinafter:</p> <ul style="list-style-type: none"> <li>▪ The major and minor project only after passing 24 EC of master courses is fulfilled unless the Examination Board decides otherwise.</li> </ul>	Advice OLC; approval FGV (7.13 h, s & t)
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### Article 8.2 Validity period for results

1. See Article 3.8 of the Teaching and Examination Regulations, section A. No further specific provisions.	Advice OLC; approval FGV (7.13 k)
2. A student may request the Examination Board to extend the validity of an exam. If the exam shows that a student's knowledge is insufficient or outdated, or if the student's skills and insights evaluated in the exam are demonstrably outdated, the Examination Board may impose a supplementary examination, impose a replacement examination or refuse to extend the period of validity.	Legal provision

3. In situations where a limited period of validity applies, the period of validity of examinations may be extended in the event of extenuating circumstances as stipulated in WHW Article 7.51, paragraph 2, with at least the period of allocated financial assistance specified in WHW Article 7.15, paragraph 1.	Legal provision
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### Article 8.3 Maximum Exemption(s)

A maximum of 36 EC of the curriculum can be accumulated through granted exemptions, based on previous results within other master's programmes	Advice OLC, approval FGV (7.13 par. 2, under r jo art.
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### Article 8.4 Degree

1. Degree Students who have successfully completed their Master's final Examination are awarded a Master of Science degree (Msc). The degree awarded is stated on the diploma.	Legal provision WHW
<p><b>2. Requirements for NVKF certificate</b>   Special provisions for the Dutch Society for Clinical Physics certificate.</p> <p>Students who complete the Bachelor's programme in Biomedical Technology and Physics and the Research Variant of the Master's programme in Biomedical Technology and Physics are entitled to a certificate indicating that their prior education meets the requirements of the Dutch Society for Clinical Physics for admission to the post-graduate programme in Clinical Physics. Specifically, they must meet the relevant requirements for the Bachelor's programme (as listed in the Academic and Examination Regulations for that programme) and the following requirements for the Master's programme:</p> <ol style="list-style-type: none"> <li>1. The following electives must be completed: <ul style="list-style-type: none"> <li>- Physics of Organs I: Cardio-Pulmonary Physics</li> <li>- Advanced Medical Image Processing in C++</li> <li>- Electronics and Signal Processing</li> <li>- Parameter Estimation in Medical and Biological Sciences or Dynamics of Biomolecules and Cells</li> <li>- Biomedical Optics</li> <li>- Tracer kinetic modelling</li> </ul> </li> <li>2. The student must complete a Major Research Project BMTP in the field of Medical Physics.</li> <li>3. The student must complete a Colloquium / Literature Thesis BMTP on a physics topic.</li> <li>4. Any deficiencies in the student's Bachelor's programme can be eliminated by choosing specific elective courses in consultation with the Master's coordinator and the Examination Board.</li> <li>3. The BMTP Examination board provides this certificate after consultation of BMTP master's coordinator.</li> </ol>	

## Section B2: Programme specific – content of programme

### 9. Programme objectives, specializations and exit qualifications

#### Article 9.1 Workload

1. The programme has a workload of 120 EC.	Advice OLC; (7.13 a)
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#### Article 9.2 Variants

<p>The programme offers the following variants:</p> <ul style="list-style-type: none"> <li>- Research variant;</li> <li>- Communication variant;</li> <li>- Education variant, and;</li> <li>- Society Oriented variant.</li> </ul>	Advice OLC; (7.13 a)
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#### Article 9.3 Programme objective

<p>The objective of the programme is that students should acquire sufficient knowledge, skills and insight within the field of Biomedical Technology and Physics, and any related disciplines, to be able to operate as an independent professional at an academic level, and to be a suitable candidate for a subsequent course of study leading to a career in research or development.</p> <p>Another aim of the programme is to develop students' understanding of the interrelationships between academic disciplines, as well as their sense of social responsibility.</p>	Advice OLC; (7.13 a)
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#### Article 9.4 Exit qualifications

<p>1. At all events, a graduate of the study programme:</p> <ol style="list-style-type: none"> <li>a. has a sound theoretical and practical understanding of the modern Biomedical Technology and Physics (including the requisite knowledge of other disciplines);</li> <li>b. has a thorough knowledge of theoretical and experimental methods, as well as research experience in at least one sub-field of Biomedical Technology and Physics;</li> <li>c. is capable, within a reasonable period of time, of becoming conversant in other sub-fields of the discipline;</li> <li>d. is capable of formulating a work plan for research within the Biomedical Technology and Physics, on the basis of a realistic research question;</li> <li>e. is capable of analyzing and formulating research results, and of drawing conclusions from them;</li> <li>f. is capable of writing a report, or an academic paper for publication in an international journal, and of participating in a discussion on a topic related to the field of study in question;</li> <li>g. is capable of studying the professional literature (including international publications) in relevant sub-fields, and of utilizing the relevant content;</li> <li>h. is capable of applying knowledge of the Biomedical Technology and Physics within a wider, multidisciplinary context;</li> <li>i. is capable of dealing with the ethical, safety and environmental aspects of the Biomedical Technology and Physics;</li> </ol>	Approval OLC (7.13 c)
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<p>j. is capable of taking on posts for which knowledge and research skills in the field of the Biomedical Technology and Physics are required;</p> <p>k. has sufficient knowledge of and insight into the social role of the Biomedical Technology and Physics to decide on a responsible choice of profession and professional practice;</p> <p>l. is capable of cooperating with others, of imparting knowledge to others, and of delivering a lecture both to specialists and to a wider audience.</p> <p>The programme emphasizes:</p> <ul style="list-style-type: none"> <li>- the student's personal development;</li> <li>- the student's sense of social responsibility, and;</li> <li>- the student's communication skills in the English language.</li> </ul>	
<p>2. Without prejudice to the provisions of paragraph 1, a graduate of the following variants will have the following knowledge and understanding:</p> <p><b>Research variant</b></p> <p>The graduate:</p> <ul style="list-style-type: none"> <li>a. is capable of independently designing, conducting and assessing experiments and the associated controls with a given period of time;</li> <li>b. is capable of contextualizing the results and conclusions obtained, within the framework of results obtained by others;</li> <li>c. is capable of formulating a perspective on the development of scientific research within the field in question;</li> <li>d. is capable of quantitatively and qualitatively analyzing medical, biological, chemical and physical processes, entering the data into existing models (or models yet to be developed), and presenting the results at various levels of abstraction;</li> <li>e. must possess insight into the role of the Biomedical Technology and Physics in a sustainable society.</li> </ul> <p><b>Communication and Education variants</b></p> <p>The graduate can:</p> <ul style="list-style-type: none"> <li>a. independently acquire new knowledge of the subject in the area of communication and education, and can apply this in professional situations within the sphere of communication/education;</li> <li>b. impart any knowledge and insights obtained, verbally and in writing, both in educational contexts and to wider audiences.</li> </ul> <p><b>Society Oriented variant</b></p> <p>The graduate can:</p> <ul style="list-style-type: none"> <li>a. develop a perspective on the contributions that scientific knowledge and methods can potentially make to social problems related to the field in question;</li> <li>b. distil a research question from this perspective that is geared towards solutions;</li> <li>c. implement such questions in the form of targeted research;</li> <li>d. interpret and present data obtained from analyses conducted at different scales and different levels of abstraction;</li> </ul>	<p>Approval OLC (7.13 b)</p>

e. cooperate with others in the context of a multidisciplinary project team.	
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## 10. Curriculum structure

### Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory components and an individual Master's thesis or academic internship.	Ordinance CvB, see appendix 3
2. The programme consists of the following components: a. required educational units; b. practical components; c. optional subjects (electives).	Advice OLC; (7.13 a)
3. Educational components are categorized as specialized (400), research oriented (500) and highly specialized (600) level.	Ordinance CvB, see appendix 3
4. Notwithstanding the provisions of paragraph 2, students may compose their own Master's programme under certain circumstances and with the prior approval of the Examination Board.	Advice OLC; (7.13 a)
5. Students must submit details of each study programme in the form of the so-called Personal Educational Programme (PEP) to the BMTP master coordinator and to the programme's Examination Board for approval.	Advice OLC; (7.13 a)

### Article 10.2 Compulsory educational components

A detailed description per educational component can be found in the Study Guide.

<b>BMTP Programme</b>				
<i>Compulsory Courses in Research Variant (84 + 36 credits required)</i>				
Educational component	course code	E C	level	Advice OLC; (7.13 a)
Colloquium / Literature thesis	XM_422611	6	500	
Major research Project BMTP	XM_422613	39	500	
Minor research project	XM_422614	21	500	
Biomedical Modelling and Simulation	X_430112	6	400	
Current Clinical Issues	XM_0064	6	400	
What color is your parachute?	XM_0015	0	400	
Scientific Writing in English for BMTP	X_420563	3	400	
Ethics in Life Sciences	AM_470707	3	400	
Restricted choices (see article 10.3)		36		
<b>Society Oriented Variant</b>				
<i>Compulsory courses in Society Oriented Variant (48 + 12 credits required)</i>				
Educational component	course code	E C	level	Advice OLC; (7.13 a)
Internship Science in Society (BIO)	AM_1134	30	400	
Research methods for analyzing problems	AM_1182	6	400	
Analysis of Governmental Policy	AM_470571	6	500	
Communication, Org. and Management	AM_470572	6	500	
Restricted choices in Society (see article 10.3)		12		
<i>Compulsory Courses in <b>Research Variant</b> (48 + 12 credits required)</i>				
Major research Project BMTP	XM_0065	30	500	
Biomedical Modelling and Simulation	X_430112	6	400	
Current Clinical Issues	XM_0064	6	400	



What color is your parachute?	XM_0015	0	400	
Scientific Writing in English for BTP	X_420563	3	400	
Ethics in Life Sciences	AM_470707	3	400	
Restricted choices in BMTP (see article 10.3)		12		
<b>Communication Variant</b>				
<i>Compulsory Courses in Communication Variant (42 + 18 credits required)</i>				
<b>Educational component</b>	<b>course code</b>	<b>EC</b>	<b>level</b>	Advice OLC; (7.13 a)
Research methods for analyzing problems	AM_1182	6	400	
Science and Communication	AM_470587	6	500	
Internship Science in Communication (see article 10.3)		30	500	
Restricted choices in Communication (see article 10.3)		18		
<i>Compulsory Courses in <b>Research Variant</b> (48 + 12 credits required)</i>				
Major research Project BMTP	XM_0065	30	500	
Biomedical Modelling and Simulation	X_430112	6	400	
Current Clinical Issues	XM_0064	6	400	
What color is your parachute?	XM_0015	0	400	
Scientific Writing in English for BMTP	X_420563	3	400	
Ethics in Life Sciences	AM_470707	3	400	
Restricted choices in BMTP (see article 10.3)		12		
<b>Education Variant</b>				
<i>Compulsory Courses in Education Variant (60 credits required)</i>				
<i>Master Leraar VHO</i>				
<b>Educational component</b>	<b>course code</b>	<b>EC</b>	<b>level</b>	Advice OLC; (7.13 a)
Didactiek 1	O_MLDIDAC_1	6	400	
Praktijk 1	O_MLPRAK_1	6	400	
Didactiek 3	O_MLDIDAC_3	9	400	
Praktijk 3	O_MLPRAK_3	15	400	
Praktijkonderzoek 1	O_MLPROZ_1	3	400	
Praktijkonderzoek 2	O_MLPROZ_2	6	400	
Didactiek 2	O_MLDIDAC_2	6	400	
Praktijk 2	O_MLPRAK_2	9	400	
<i>Compulsory Courses in <b>Research Variant</b> (48 + 12 credits required)</i>				
Major research Project BMTP	XM_0065	30	500	
Biomedical Modelling and Simulation	X_430112	6	400	
Current Clinical Issues	XM_0064	6	400	
What color is your parachute?	XM_0015	0	400	
Scientific Writing in English for BMTP	X_420563	3	400	
Ethics in Life Sciences	AM_470707	3	400	
Restricted choices in BMTP (see article 10.3)		12		

## Article 10.3 Elective educational components

1. The student can take one or more of the following electives without prior consent from the Examination Board:				Advice OLC; (7.13 a)
Educational component	course code	EC	level	
<b>BMTP Programme</b>				
<b>Restricted Choice (36 EC required)</b>				
Live cell imaging	AM_470726	6	500	
Physics of Organs I: Cardiopulmonary physics	X_428527	6	400	
Soft Condensed Matter and Biological Physics	X_420167	6	400	
Entrepreneurship in Biomedical Physics and Technology	XM_0013	6	400	
Advanced Medical Image Processing in C++	X_422610	6	400	
Dynamics of Biomolecules and Cells	X_422583	6	400	
Elektronica en signaalverwerking	X_420533	6	300	
Parameter Estimation Sciences applied to Medical & Biological	X_432631	6	500	
Biomedical Optics	XM_41014	6	400	
Tracer kinetic modelling	XM_0014	6	400	
Innovative Clinical Technologies	XM_0062	6	400	
<b>Compulsory Choice 1 of 2 (at least 21 EC required)</b>				
Minor research Project	X_422614	21	500	
Minor research Project	XM_42000	27	500	
<b>Foreknowledge for the courses <i>Parameter Estimation Sciences applied to Medical &amp; Biological and Advanced Medical Image Processing in C++</i></b>				
Image Processing for BMTP	X_422612	6	400	
Medische beeldvorming	X_436504	6	400	
<b>Foreknowledge for the course Dynamics of Biomolecules and Cells</b>				
Microscopie en spectroscopie voor MNW	X_420586	6	400	
Mechanics and Thermodynamics in the Cell	X_422589	6	400	
<b>Society Oriented Variant Compulsory choice (12 EC required)</b>				
Societal entrepreneurship H&L sciences	AM_470575	6	500	
Business management	AM_470584	6	500	
Disability and development	AM_470588	6	500	
Health, Globalisation and Human Rights	AM_470818	6	500	
Policy, Politics and Participation	AM_470589	6	500	
Science in Dialogue	AM_1002	6	500	
Clinical Development and Clinical Trials	AM_1180	3	500	
Epidemiology	AM_1179	3	500	

<b>Restricted Choice (12 EC required)</b>			
Live cell imaging	AM_470726	6	500
Physics of Organs I: Cardiopulmonary physics	X_428527	6	400
Soft Condensed Matter and Biological Physics	X_420167	6	400
Advanced Medical Image Processing in C++	X_422610	6	400
Dynamics of Biomolecules and Cells	X_422583	6	400
Elektronica en signaalverwerking	X_420533	6	300
Parameter Estimation Sciences applied to Medical & Biological	X_432631	6	500
Biomedical Optics	XM_41014	6	400
Tracer kinetic modelling	XM_0014	6	400
Innovative Clinical Technologies	XM_0062	6	400
<b>Communication Variant Compulsory choice (18 EC required)</b>			
Communication, Org. and Management	AM_470572	6	500
Science in Dialogue	AM_1002	6	500
Science Journalism	AM_471014	6	500
Science Museology	AM_470590	6	500
<b>Internship communication: choose one</b>			
Research Internship Science Comm.	AM_1162	30	600
Reflective Practice Int. SC. Comm.	AM_1163	30	600
<b>Restricted Choice (12 EC required)</b>			
Live cell imaging	AM_470726	6	500
Physics of Organs I: Cardiopulmonary physics	X_428527	6	400
Soft Condensed Matter and Biological Physics	X_420167	6	400
Advanced Medical Image Processing in C++	X_422610	6	400
Dynamics of Biomolecules and Cells	X_422583	6	400
Elektronica en signaalverwerking	X_420533	6	300
Parameter Estimation Sciences applied to Medical & Biological	X_432631	6	500
Biomedical Optics	XM_41014	6	400
Tracer kinetic modelling	XM_0014	6	400
Innovative Clinical Technologies	XM_0062	6	400
<b>Education Variant Restricted Choice (12 EC required)</b>			
Live cell imaging	AM_470726	6	500
Physics of Organs I: Cardiopulmonary physics	X_428527	6	400
Soft Condensed Matter and Biological Physics	X_420167	6	400
Advanced Medical Image Processing in C++	X_422610	6	400
Dynamics of Biomolecules and Cells	X_422583	6	400
Elektronica en signaalverwerking	X_420533	6	300

Parameter Estimation Sciences applied to Medical & Biological	X_432631	6	500
Biomedical Optics	XM_41014	6	400
Tracer kinetic modelling	XM_0014	6	400
Innovative Clinical Technologies	XM_0062	6	400

#### Article 10.4 Practical exercise

1. Students are expected to participate actively in all degree components for which they are registered.	Approval OLC (7.13 d)
2. In addition to the general requirement regarding active participation, the study guide details additional requirements for each degree component, as well as component attendance requirements.	
3. At the start of each degree component, a specification will be made available which details: <ul style="list-style-type: none"> <li>- The final attainment levels of the degree component;</li> <li>- The study guidelines for passing the degree component;</li> <li>- The way in which the final attainment levels are assessed;</li> <li>- The regulations for examinations and resits;</li> <li>- The guidance provided by lecturers during scheduled hours and otherwise;</li> <li>- Component attendance requirements;</li> <li>- The provision of feedback to the student on assignments and reports submitted, and presentations given during the degree component.</li> </ul>	
4. If a student is prevented by force majeure from attending a required degree component, then the student must send written notification of his or her absence to the examiner and the academic advisor as soon as possible. The examiner may, after consultation with the academic advisor, give the student an alternative assignment.	
5. Absence from degree components with required attendance is only allowed in the case of force majeure.	
6. In the event of inadequate participation, either qualitative or quantitative, the examiner may exclude the student from further participation in the degree component or a part of the degree component. The details of the student's inadequate participation must be recorded in advance and approved by the Director of Studies.	

## 11. Evaluation and transitional provisions

### Article 11.1 Evaluation of the education

1. The education provided in this programme is evaluated in accordance with the (attached) evaluation plan. The faculty evaluation plan offers the framework.	Approval OLC (7.13 a1)
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### Article 11.2 Transitional provisions

By way of departure from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the programme under a previous set of Teaching and Examination Regulations: <ul style="list-style-type: none"> <li>▪ Students in the MNW specializations “Medical Physics” or “Physics of Life” may enter the new programme “Biomedical Technology and Physics”, but students in the MNW specializations “Physiology” or “Molecular Clinical Diagnostics” are excluded.</li> </ul>	Advice OLC (7.13 a)
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Advice and approval by the Programme Committee of M Biomedical Technology and Physics, on 6 June 2019.

Approved by the Faculty Joint Assembly, on 3 September 2019.

Adopted by the board of the Faculty of Science, on 30 August 2019.

## Appendix I Overview of articles that must be included in the OER

Based on Section 7.13, paragraph 2, of the WHW and other Sections of the Act.

### Section B1: Programme specific – general provisions

<b>6. General programme information and characteristics</b>	
Article 6.1 Study programme information	7.13 paragraph 2 sub i, r
Article 6.2 Teaching formats used and modes of assessment	7.13 paragraph 2 sub l, x
[option:] Article 6.3 Academic student counselling	7.13 paragraph 2 sub u
<b>7. Further admission requirements</b>	
Article 7.2 Admission requirements	7.30b paragraph 2
<b>8. Interim examinations and results</b>	
Article 8.1 Sequence of interim examinations	7.13 paragraph 2 sub h, s, t
[option 1:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k
[option 2:] Article 8.2 Validity period for results	7.13 paragraph 2 sub k

### Section B2: Programme specific – content of programme

<b>9. Programme objectives, specializations and exit qualifications</b>	
Article 9.1 Workload	7.13 paragraph 2 sub g
Article 9.2 Specializations	7.13 paragraph 2 sub a
Article 9.3 Programme objective	7.13 paragraph 2 sub a
Article 9.4 Exit qualifications	7.13 paragraph 2 sub b, c
<b>10. Curriculum structure</b>	
Article 10.1 Composition of the programme	7.13 paragraph 2 sub a
Article 10.2 Compulsory educational components	7.13 paragraph 2 sub a
[Optional] Article 10.3 Elective educational components	7.13 paragraph 2 sub a
[Optional] Article 10.4 Practical exercise	7.13 paragraph 2 sub d
Article 10.5 Participation in practical training and tutorials	7.13 paragraph 2 sub d
<b>11. Evaluation and transitional provisions</b>	
Article 11.1 Evaluation of the education	7.13 paragraph 2 sub a1
Article 11.2 Transitional provisions	7.13 paragraph 2 sub a

## Appendix II Overview of rights to prior consultation (advice) and rights to approve OLC and FGV

(Dutch only)

Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 paragraaf 2 WHW	FGV		OplC	
	I	A	I	A
a. de inhoud van de opleiding en van de daaraan verbonden examens				
a1. de wijze waarop het onderwijs in de desbetreffende opleiding wordt geëvalueerd				
b. de inhoud van de afstudeerrichtingen binnen een opleiding				
c. de kwaliteiten op het gebied van kennis, inzicht en vaardigheden die een student zich bij beëindiging van de opleiding moet hebben verworven				
d. waar nodig, de inrichting van praktische oefeningen				
e. de studielast van de opleiding en van elk van de daarvan deel uitmakende onderwijseenheden				
f. de nadere regels, bedoeld in de artikelen 7.8b, zesde lid, en 7.9, vijfde lid (BSA)				
g. ten aanzien van welke masteropleidingen toepassing is gegeven aan artikel 7.4a, achtste lid (verhoogde studielast)				
h. het aantal en de volgtijdelijkheid van de tentamens alsmede de momenten waarop deze afgelegd kunnen worden				
i. de voltijdse, deeltijdse of duale inrichting van de opleiding				
j. waar nodig, de volgorde waarin, de tijdvakken waarbinnen en het aantal malen per studiejaar dat de gelegenheid wordt geboden tot het afleggen van de tentamens en examens				
k. waar nodig, de geldigheidsduur van met goed gevolg afgelegde tentamens, behoudens de bevoegdheid van de examencommissie die geldigheidsduur te verlengen				
l. of de tentamens mondeling, schriftelijk of op een andere wijze worden afgelegd, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
m. de wijze waarop studenten met een handicap of chronische ziekte redelijkerwijs in de gelegenheid worden gesteld de tentamens af te leggen				
n. de openbaarheid van mondeling af te nemen tentamens, behoudens de bevoegdheid van de examencommissie in bijzondere gevallen anders te bepalen				
o. de termijn waarbinnen de uitslag van een tentamen bekend wordt gemaakt alsmede of en op welke wijze van deze termijn kan worden afgeweken				
p. de wijze waarop en de termijn gedurende welke degene die een schriftelijk tentamen heeft afgelegd, inzage verkrijgt in zijn beoordeelde werk				
q. de wijze waarop en de termijn gedurende welke kennis genomen kan worden van vragen en opdrachten, gesteld of gegeven in het kader van een schriftelijk afgenomen tentamen en van de normen aan de hand waarvan de beoordeling heeft plaatsgevonden				
r. de gronden waarop de examencommissie voor eerder met goed gevolg afgelegde tentamens of examens in het hoger onderwijs, dan wel voor buiten het hoger onderwijs opgedane kennis of vaardigheden, vrijstelling kan verlenen van het afleggen van een of meer tentamens				
s. waar nodig, dat het met goed gevolg afgelegd hebben van tentamens voorwaarde is voor de toelating tot het afleggen van andere tentamens				
t. waar nodig, de verplichting tot het deelnemen aan praktische oefeningen met het oog op de toelating tot het afleggen van het desbetreffende tentamen, behoudens de bevoegdheid van de examencommissie vrijstelling van die verplichting te verlenen, al dan niet onder oplegging van vervangende eisen				
u. de bewaking van studievoortgang en de individuele studiebegeleiding				
v. indien van toepassing: de wijze waarop de selectie van studenten voor een speciaal traject binnen een opleiding, bedoeld in artikel 7.9b, plaatsvindt ( <i>excellentietraject binnen een opleiding</i> )				
x. de feitelijke vormgeving van het onderwijs				
<i>alle overige onderwerpen die in de OER zijn geregeld maar die niet als zodanig zijn genoemd in art. 7.13 WHW onder a t/m x.</i>				

De lettering komt overeen met de lettering van artikel 7.13 lid 2 WHW

**Appendix III Ordinances VU CvB and Binding Guidelines (richtlijn)**

<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
7.2.1	Admission criteria; at least WO Bachelor's degree	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
7.2.3	Additional admission criteria; type of criteria	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
10.1	Composition programme	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
10.2	Categorization of components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017