

Teaching and Examination Regulations (TER)

Faculty of Science

Masterprogramme in Science Business & Innovation

Academic year: 2019-2020

A: Faculty section

B1: Programme specific section – general provisions

B2: Programme specific section – content of programme

Index

Section A: Faculty Section	4
1. General provisions	4
Article 1.1 Applicability of the Regulations	4
Article 1.2 Definitions	4
2. Study programme structure	5
Article 2.1 Structure of academic year and educational components	5
Article 2.2 Refusal or termination of registration / (iudicium abeundi)	6
3. Assessment and Examination	6
Article 3.1 Signing up for education and interim examinations	6
Article 3.2 Type of examination	6
Article 3.3 Oral interim examinations	6
Article 3.4 Determining and announcing results	6
Article 3.5 Examination opportunities	7
Article 3.6 Marks	7
Article 3.7 Exemption	8
Article 3.8 Validity period for results	8
Article 3.9 Right of inspection and post-examination discussion	8
Article 3.10 Fraud and plagiarism	9
4. Academic student counselling and study progress	9
Article 4.1 Administration of study progress and academic student counselling	9
Article 4.2 Adaptations for students with a disability	9
5. Hardship clause	10
Article 5.1 Hardship clause	10
Article 5.2. Publication	10
Section B1: Programme specific – general provisions	11
6. General programme information and characteristics	11
Article 6.1 Study programme information	11
Article 6.2 Teaching formats used and modes of assessment	11
Article 6.3 Academic student counselling	11
7. Further admission requirements	11
Article 7.1 Intake date(s)	11
Article 7.2 Admission requirements	11
Article 7.4 Pre-Master's programme	12
8. Interim examinations and results	12
Article 8.1 Sequence of interim examinations	12
Article 8.2 Validity period for results	
Section B2: Programme specific – content of programme	14
9. Programme objectives, specializations and exit qualifications	14
Article 9.1 Workload	14



2019-2020

Article 9.2 Speci	alizations	14
Article 9.3 Progr	amme objective	14
Article 9.4 Exit o	qualifications	14
10. Curric	ulum structure	15
Article 10.1 Com	position of the programme	15
Article 10.2 Com	npulsory educational components	15
	tive educational components	
	tical Exercise	
Article 10.5 Parti	icipation in practical exercise	17
	ition and transitional provisions	
Article 11.1 Eval	uation of the education	17
Article 11.2 Tran	isitional provisions	17
Appendix I	Overview of articles that must be included in the OER	
Appendix II	Overview of rights to prior consultation (advice) and rights to approve OLC and FGV	
Appendix III	Ordinances VU CvB and Binding Guidelines (richtlijn)	



Section A: Faculty Section

1. General provisions

Article 1.1 Applicability of the Regulations

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: Artificial Intelligence	Advice OLC, approval FGV (9.38 ub b)
 Science Business and Innovation Stochastics and Financial Mathematics 	
2. These Regulations enter into force with effect from 1 September 2019.	Advice OLC, approval FGV (9.38 ub b)
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.	Advice OLC, approval FGV (9.38 sub b)

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:

o researching and writing a thesis or dissertation

carrying out a research assignmenttaking part in fieldwork or an excursion

o taking part in another educational learning activity aimed at acquiring

specific skills, or

o participating in and completing a work placement;

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 (Student Lifecycle Management);

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: https://www.vu.nl/studiegids

s. subject see 'educational component';

t. substituting course/educational see under d (double degree programme). A course obtained at the

component 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 (Wet op het Hoger Onderwijs en

Wetenschappelijk Onderzoek);

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	Ordinance CvB,
comprises 3 EC or a multiple thereof. The Faculty Board requests permission from the	see appendix 3
Executive Board.	

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	WHW
	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.	
2.	If a student is suspected of being unsuitable as described in paragraph 1, the	WHW
	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.	

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	e, Ordinance CvB,
but at the latest within fifteen working days. By way of departure from that stipulated i	see appendix 3
the first clause, the marking deadline for theses, internships / work placements and fina	al
assignments is no longer than twenty working days. The examiner will then immediate	ely
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.	
2. a. The examiner determines the result (i.e. mark) of an oral examination as soon as	Advice OLC;



t	cossible, 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	approval FGV (7.13 o)
3. 1	working days before the next (interim) examination will be held. 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)
	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)
t s	ogether 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	Ordinance CvB,
	component will be offered.	see appendix 3
b. 7	The options for retaking practical components, work placements and theses are detailed	
	in the relevant work placement manual, teaching regulations or graduation regulations.	
2.	The most recent mark will apply in the event of a resit. A retake is allowed for both	Ordinance CvB,
	passed and failed units of study.	see appendix 3
3.	The resit for a (partial) interim examination must not take place within ten working	Advice OLC;
	days of the announcement of the result of the (partial) examination being resat.	approval FGV (7.13 j)
4.	The Examination Board may allow a student an extra opportunity to sit an	Ordinance CvB,
	examination if that student:	see appendix 3
	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.	
Th	e 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.	

Article 3.6 Marks

1. Marks are given on a scale	from 1 to 10 with no m	ore than one deci	mal point.	Ordinance CvB,
			1	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 t	o whole marks: u	to 5.5 rounded down;	Ordinance CvB,
from 5.5 rounded up. To pa	ss a course, a 6 or high	er is required.		see appendix 3
In case the examination of a cor	nponent consists of two	o or more parts, ea	ach of which are	
graded separately, the (weight	thted) mean of these m	arks (meaning: th	e final mark) must be	
rounded off using the follow	<i>'</i>		, , , , , , , , , , , , , , , , , , , ,	
Tounded off using the follow	ving table.			
From	Up to	Grade	1	
		Grade	Į.	
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 all	ow to use symbols i	rather than numbe	ers such as:	Ordinance CvB,
		=			see appendix 3
pass, fail, (un)satisfacto		-		•	11
(interim) examinat	tion, the exan	niner will register th	ne mark 'ns' (c.q.	no show).	

Article 3.7 Exemption

	 At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if the student: a) has passed a course component of a university or higher professional education programme that is equivalent in terms of content and level; b) has demonstrated through his/her work and/or professional experience that he/she sufficient knowledge and skills with regard to the relevant course component. The Examination Board will make a decision within six weeks after receiving the request. 	Advice OLC; approval FGV (7.13 r)
2	2. The Master's thesis, the final work placement (c.q. internship) and the final project (c final paper) are excluded from this exemption possibility.	.q. 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 substitut courses (educational components) are not included.	

Article 3.8 Validity period for results

	V 1	
1.	The validity period of interim examinations passed and exemption from interim	WHW
	examinations is unlimited, unless otherwise specified in Section B.	
2.	The validity period of a partial examination is limited to the academic year in which it	Advice OLC;
	was sat or until the end of the unit of study concerned, as stipulated for the relevant unit	approval FGV
	of study in Section B.	(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 discussion or if the student was unable to attend the collective discussion through no fault of his or her own.	Advice OLC; approval FGV (7.13 q)



3.	Students who meet the requirements stipulated in paragraph 1 can submit a request for an	Advice OLC;
	individual post-examination discussion to the relevant examiner. The discussion shall take	approval FGV (7.13 p en q)
	place at a time and location to be determined by the examiner.	(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
Ī	2. Electronic detection software programmes may be used to detect plagiarism in texts.	Ordinance CvB
	In submitting a text, the student implicitly consents to the text being saved in the	
	database of the detection programme concerned.	

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.	Advice OLC;
	After the assessment of an educational component has been registered, every student has	approval FGV (7.13 u)
	the right to inspect the result for that component and also has a list of the results achieved	(7.13 u)
	at his or her disposal in VUnet.	
2.	Enrolled students are eligible for academic student counselling. Academic student	Advice OLC;
	counselling is in any case provided by:	approval FGV (7.13 u)
а. Т	The Student General Counselling Service	(7.13 u)
b. S	Student psychologists	
c. F	Faculty academic advisors	

Article 4.2 Adaptations for students with a disability

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 advice 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 the exception for the chronic diseases and disabilities.	Advice OLC; approval FGV (7.13 m)



5. Hardship clause

Article 5.1 Hardship clause

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

Article 5.2. Publication

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

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 in Science, Business & Innovation CROHO number 69320 is offered	Advice OLC;
	on a full-time basis.	approval
		FGV (7.13 i)
2.	The language of instruction is English.	Advice OLC;
		approval
		FGV
		(9.38 b)

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	Advice OLC;
	guide.	approval
	<i>8</i>	FGV (7.13 l)

Article 6.3 Academic student counselling

1.	The programme offers the following counselling in addition to the student counselling	Advice OLC;
	mentioned in Section A:	approval
	 Academic advisor. 	FGV (7.13 u)

7. Further admission requirements

Article 7.1 Intake date(s)

1. The programme starts on September 1. The intake date mentioned in this paragraph	Advice OLC;
ensure that a programme can be completed within the nominal study duration set for	approval
the programme.	FGV (9.38
F8	sub b)

Article 7.2 Admission requirements

- 1. Admission to the Master's programme is possible for an applicant who has obtained a Bachelor's degree at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills:
 - Registration for the Master's programme in Science, Business & Innovation is open to anyone who is in possession of:
 - a Bachelor's degree in Science, Business & Innovation; or:
 - a bachelor's degree in Natuurwetenschappen en Innovatiemanagement (Natural Sciences and Innovation Management), awarded by the University of Utrecht.
 - An applicant with a university Bachelor's degree in a field other than specified above may be admitted to the programme by the Examination Board if the following conditions have been met:
 - a. For both variants, L&H and E&S, students are required to have basic knowledge on bachelor level of mathematics (at least 9 EC), statistics (at least 6 EC), computer skills (at least 6 EC) and of business/innovation/social sciences of at least 24 EC;
 - b. In addition to these requirements, students entering the E&S variant need to have at least 45 EC obtained during their bachelor in chemistry and/or physics courses (including thermodynamics), while students

Partly legal provison & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW



	entering the L&H variant need at least 45 EC obtained during their bachelor in chemistry and/or physics courses (including molecular and pharmaceutical sciences); c. The applicants prior education meets the qualifications of a university Bachelor's degree programme as defined in the Dublin descriptors; d. The applicant's English-language proficiency is at least equivalent to pre- university final-exam level (VWO in the Netherlands); e. When the programme commences, the candidate must have fully completed the Bachelor's programme or pre-master's programme allowing admission to this Master's programme. Students are allowed to have a deficiency of 6 EC that can be added to their Personal Education Plan (PEP).	
2.	The Admissions Board will investigate whether the applicant meets the admission requirements.	Legal provision
3.	Applicants will be admitted to the degree programme if they hold a letter of acceptance, issued by or on behalf of the Faculty Board when they have demonstrated that they meet the knowledge, understanding and skills requirements of the final level of attainment in a university Bachelor's degree programme.	Partly legal provison & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW

Article 7.4 Pre-Master's programme

 LICI	c 7.4 i ic-waster's programme	
1. a	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. 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.	advies OLC; instemming FGV (9.38 b)
2.	The pre-Master's programme comprises 30 EC and is made up of the following units of study: a. Strategic Management of technology and innovation (E_BK3_SMTI) b. Theories of Venture Creation (X_420569) c. Open innovation in Science (X_430583) d. Economics for scientists (MOOC, E_EBE3_MES) e. Innovatieproject diagnostiek en geneesmiddelen (X_420225)	advies OLC; instemming FGV (9.38 b)
3.	A successfully completed pre-Master's programme serves as proof of admission to the specified Master's programme in the subsequent academic year.	advies OLC; instemming FGV (9.38)
4.	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

II tici	c of Bequence of Internit examinations	
1.	Students may participate in interim examinations [and/or practical exercises] of the	Advice OLC;
	components below only if they have passed the interim examination or examinations	approval FGV (7.13 h, s & t)
	for the components mentioned hereinafter:	(7.13 11, 3 & t)



SBI project & master thesis after passing all other programme credits. A shortfall of 12 credits is permissible, as long as it does not include credits for the course SBI Research Methodology.

Article 8.2 Validity period for results

If the exam shows that a student's knowledge is insufficient or outdated, or if the student's
skills evaluated in the exam are demonstrably outdated, the Examination Board may impose
a supplementary or replacement examination for a course for which
an examination was passed more than 5 years ago.

Advice OLC; approval FGV (7.13 k)



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)

Article 9.2 Specializations

The programme has the following specializations:	Advice OLC;
- Energy & Sustainability (E&S);	(7.13 a)
- Life & Health (L&H).	
Within each track, there are no variants offered.	

Article 9.3 Programme objective

The aim of the programme is that SBI students learn to contribute to valorization of natural scientific knowledge in a business and innovation context while taking into account natural scientific as well as organizational, social and cultural variables. Students learn to contribute to valorization by means of developing, designing, executing, reporting and presenting academic research about valorization subjects in the empirical field. Students are educated for jobs in research-driven environments where valorization of findings and knowledge is a key driver. Students learn to contribute to the introduction, use and exploitation of new products, processes and services based on (knowledge from) natural scientific research and knowledge. The learning process is structured and driven by developing scientific research projects in the specific empirical setting. This takes place within one of the following specialization areas:

Advice OLC; (7.13 a)

- 1. Energy & Sustainability (E&S), with an emphasis on renewable and clean energy development;
- 2. Life & Health (L&H), emphasizing drug development, molecular diagnostics and innovative medical instrumentation.

Article 9.4 Exit qualifications

- 1. At all events, a graduate of the study programme:
 - has demonstrated knowledge and understanding of modern chemistry/physics, including the knowledge of other disciplines required for that purpose. This enables an original approach in developing and/or applying ideas, often within a research context;
 - has demonstrated thorough knowledge of research methods, research culture, research organization and research processes in E&S or L&H;
 - has demonstrated thorough knowledge of the business- and social scientific aspects of innovation in E&S or L&H;
 - has the ability to apply one's knowledge of chemistry/physics and business- and social science in a broader (multidisciplinary) context;
 - has the ability to deal with the safety and environmental aspects of chemistry/physics;
 - is proficient in analysing and solving problems with regard to innovation trajectories in E&S or L&H;

Approval OLC (7.13 c)



- has the ability to formulate a research plan, using an empirical or design research cycle, and based on a problem within the discipline of science-based or R&D-intensive innovation in E&S or L&H;
- has the ability to analyze research results and to draw conclusions therefrom, and uses academic technological methods;
- has the ability to write a scientific report about a research project, and to participate in discussion of the field of study that is related to this project;
- has the ability to consult international academic literature in the relevant subareas (science- based or R&D-intensive innovation in E&S or L&H) and to apply the knowledge gained from that;
- is proficient in applying the acquired theoretical and practical insights in day-today practice at an institute, company or organization, strongly focused on providing solutions that enable innovation trajectories in E&S or L&H business;
- can communicate his/her conclusions, and the knowledge and rationale underpinning these, with peers, the larger scholarly community and with society in general;
- is able to make a factual and critical contribution to a scientific or public discussion and is capable of presenting his/her findings in an international perspective in the form of an academic English-language article;
- is capable and motivated to work goal- and task- oriented with and for others in a differentiated and dynamic and interdisciplinary setting;
- has strong affinity with management practices concerning innovation trajectories in E&S or L&H and takes into account academic, social, and technological opinions and methods in the context of his/her work.

10. Curriculum structure

Article 10.1 Composition of the programme

	t 10/1 Composition of the programme	
1.	The programme comprises at least a package of compulsory components and an	Ordinance CvB,
	individual Master's thesis during an academic internship.	see appendix 3
2.	Additionally the programme can offer:	Advice OLC;
	- Practical exercises;	(7.13 a)
	- Electives.	
3.	Educational components are categorized as specialized (400), research oriented (500)	Ordinance CvB,
	and highly specialized (600) level.	see appendix 3

Article 10.2 Compulsory educational components

1.	The programme includes compulsory components. The contents and format of the	Advice OLC;
	compulsory components of the various tracks are further described in the Course	(7.13)
	Catalogue, stating the necessary entry requirements for successful participation in the	
	component.	
2.	The curriculum comprises the following:	
	- Compulsory business, IT and innovation courses (total of 18 EC);	
	- Specialisation-related science elective courses (total of 12 EC);	
	- One specialisation-related compulsory integration course (total of 6 EC);	
	- Science project (total of 24 EC);	
	- SBI Project & Master thesis (total of 36 EC);	



- Compulsory SBI Research Methodology course (total of 6 EC) *obligatory semester 1 of the first year;*
- Electives (total of 18 EC)

3. Structure of the programme	ure of the progran	nme:
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Period	Year 1	Year 2
1: sep-oct	SBI Research Methodology	Courses 12 EC*
	+ Course 6 EC*	
2: nov-dec	Courses 12 EC*	Courses 12 EC*
3: jan	SBI interdisciplinary specialization course 6	Master project 36 EC: - Specialization E&S:
	EC: - Specialization E&S: Current Sustainable Energy Technologies - Specialization L&H: Business, Innovation and value creation in	Academic master research project in(to) valorization aspects of a commercial firm or institutional organization in the sustainable energy sector, facilitated by an
4: feb-mar	the life sciences industry Science project 24 EC: - 2 variants embedded or non-embedded	internship - Specialization L&H: Academic master research project in(to) valorization aspects of a commercial firm or institutional organization in the life sciences or health care sector, facilitated by an
5: apr-may		internship
6: jun	Course 6 EC*	

*Specialization E&S and L&H: 24 EC of the same mandatory Business, IT and social science courses (see list in study guide);

Specialization E&S: 12EC of natural science courses, chosen from the E&S-list (see list in study guide);

Specialization L&H: 12EC of natural science courses, chosen from the L&H-list (see list in study guide);

Specialization E&S and L&H: 18EC electives (see list of options in study guide).

4. If the student wishes to take a different educational component than listed, prior permission must be obtained in writing from the Examinations Board.

Article 10.3 Elective educational components

1.	Students choose components in the field of the discipline according to the rules stated in the Course Catalogue.	Advice OLC; (7.13 a)
2.	Students may make a choice out of components in the field of the discipline included in the Course Catalogue, and out of components offered by another Dutch or foreign university upon prior approval of the Examination Board.	
3.	Course components successfully completed elsewhere or that are not included in list of recommended electives during the programme may supplement the student's examination programme, subject to prior permission from the Examinations Board.	



4. In terms of content, elective components must not show too much similarity to other components of the student's curriculum. The acceptable degree of similarity will be decided by the Examinations Board.

Article 10.4 Practical Exercise

Not applicable.

Article 10.5 Participation in practical exercise

attendance requirements.

- 1. Student are expected to participate actively in all degree components for which they are registered.
- 2. In addition to the general requirement regarding active participation, the study guide details additional requirements for each degree component, as well as component
- 3. At the start of each degree component, a specification will be made available which details:
 - The final attainment levels of the degree component;
 - The study guidelines for passing the degree component;
 - The way in which the final attainment levels are assessed;
 - The regulations for examinations and resits;
 - The guidance provided by lecturers during scheduled hours and otherwise;
 - Component attendance requirements;
 - The provision of feedback to the student on assignments and reports submitted, and presentations given during the degree component.
- 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 as possible. The examiner may, after consultation with the study 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

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:

- The course Networked Organizations and Communcations (S_NOC) will no longer be taught as from 2018-2019. Students who did not pass this course will have to do the replacement course Organizational Culture & Change (S_COC).

Advice and approval by the Programme Committee of MSc Science Business & Innovation, on 3 June 2019.



Approval OLC (7.13 d)

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

6. General programme information and characteristics		
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		
[option:] Article 6.3 Academic student counselling	7.13 paragraph 2 sub u	
7. Further admission requirements		
Article 7.2 Admission requirements	7.30b paragraph 2	
8. Interim examinations and results		
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		

Section B2: Programme specific – content of programme

9. Programme objectives, specializations and exit qualifications		
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		
10. Curriculum structure		
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		
11. Evaluation and transitional provisions		
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 paragraph 2		FGV		OplC	
WHW	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 (excellentietraject binnen een					
opleiding)					
x. de feitelijke vormgeving van het onderwijs					
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.					
De lettering komt overeen met de lettering van artikel 7.13 lid 2 WHW					

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



Appendix III Ordinances VU CvB and Binding Guidelines (richtlijn)

Section B1, article:	Concerns:	CvB ordinance / guideline
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
Section B1, article:	Concerns:	CvB ordinance / guideline
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

