Teaching and Examination Regulations (TER)

Faculty of Science

Masterprogramme in Management, Policy-analysis and Entrepreneurship in the Health and Life Sciences

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

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 ▪ Bioinformatics and System Biology ▪ Biomedical Sciences ▪ Biomolecular Sciences ▪ Business Analytics ▪ Computer Science ▪ Drug Discovery and Safety ▪ Earth Sciences ▪ Ecology ▪ Environment and Resource Management ▪ Global Health (research) ▪ Health Sciences ▪ Hydrology ▪ Information Sciences ▪ Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences ▪ Mathematics ▪ Medical Natural Sciences ▪ Neurosciences (research) ▪ Parallel and Distributed Computer Systems ▪ Science Business and Innovation ▪ Stochastics and Financial Mathematics	Advice OLC, approval FGV (9.38 ub b)
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: ○ researching and writing a thesis or dissertation ○ carrying out a research assignment ○ taking part in fieldwork or an excursion ○ taking part in another educational learning activity aimed at acquiring specific skills, or ○ 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 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 (*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 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

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: 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 has 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. 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: a. The Student General Counselling Service b. Student psychologists c. Faculty academic advisors	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 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 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)

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 Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences (MPA) CROHO number 60803 is offered on 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 to article 2.1, paragraph 3 the units listed below have a deviant size:

Aproval OLC (art. 7.13 lid2, under e), approval CvB

Coursecode	Coursename	nr of EC	Level
AM_1052	Innovation, Behavior, Emergence & Market	3	500
AM_1052	Innovation, Behavior, Emergence & Market	3	500
AM_1160	Scientific Writing in English (AM_MPA)	3	400
AM_1179	Epidemiology	3	500
AM_1180	Clinical Development and Clinical Trials	3	500
AM_1194	Maternal and Child Health (Caput)	3	500
AM_1254	Interdisciplinary Comm SL: DCIMC	3	400
AM_470707	Ethics in Life Sciences	3	400
AM_1118	Internship I MPA (without spec)	27	500
AM_1119	Internship I MPA spec IPH	27	500
AM_1120	Internship I MPA spec ME	27	500
AM_1121	Internship I MPA spec Policy	27	500
AM_1126	Internship I MPA spec Communication	27	500
AM_1219	Internship I MPA specialization CHT	27	500
AM_1163	Reflective Practice Int. SC. Comm.	30	600
AM_1220	Internship II MPA specialization CHT	30	600
AM_1252	Internship II MPA Systematic review	30	600
AM_471117	Internship II MPA	30	600
AM_471119	Internship II MPA spec. Man. & Entr.	30	600
AM_471121	Internship II MPA spec IPH	30	500
AM_471123	Internship II MPA spec. Policy	30	600
AM_471125	Internship II MPA spec Com	30	600

Article 6.2 Teaching formats used and modes of assessment

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

7. Further admission requirements

Article 7.1 Intake date(s)

The programme starts on September 1.	Advice OLC; approval FGV (9.38 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 obtained at an institution of academic higher education, which demonstrates the following knowledge, understanding and skills: · Knowledge · Understanding · Skills	Partly legal provison & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW
2. The Admissions Board will investigate whether the applicant meets the admission requirements.	Legal provision
3. Students with a University BSc. degree in one of the following programmes from a Dutch University are eligible for direct admission to the MPA programme: Biochemistry, Bioinformatics, Biology, Biomedical Sciences, Health and Life Sciences, Health Sciences, Human Movement Sciences, Medical Informatics, Medical Natural Sciences, Medicine, Pharmaceutical Sciences, Psychobiology, Beta-gamma studies (with a major in Chemistry, Ecology and Evolution, Biomedical Sciences, Brain and cognition, Physics and astronomy, Mathematics), University Colleges (with at least a major in a beta subject).	
4. Students with an International University Degree, equivalent to a Dutch BSc. degree mentioned here above, may be admitted to the programme after consideration by the Admission Board.	
5. Students with a University Bachelor programme in Natural Sciences (e.g. Chemistry, Physics) or Innovations Sciences (e.g. NW&I, SBI) are eligible for admission to the MPA programme. However, the Health/Life Sciences-related beta component of the bachelor will be assessed by the admission board. The admission board might decide that the student needs to conduct an additional 6 EC Science course.	
6. Students with a Dutch HLO Biology and Medical Laboratory Research degree are eligible for direct admission to the MPA programme. Students with a degree from other Dutch Higher Vocational Education programmes in the Health and Life Sciences need to follow a pre-Master or minor (see article 7.4).	
7. Students with a Bachelor of Science degree in another subject, or a Dutch Institute of Higher Vocational Education, may be admitted to the programme after consideration by the Admission Board.	

Article 7.3 Pre-Master's programme

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. 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.	Advice OLC; approval FGV (9.38 sub b)
2. The pre-Master's programme comprises 30 EC and is made up of units of study depending on the specialization chosen by the student.	Advice OLC; approval FGV (9.38 sub b)
3. a) Students with a University Bachelor's degree other than those listed in article 7.2.3 and further in a field that is Health and Life Sciences related, can request admission to the MPA programme after:	advies OLC; instemming FGV (9.38 b)

· completing the VU minor 'Global Health', or; · the pre-master Health Sciences ("pre-master programma Gezondheidswetenschappen"), or; · pre-master program Biology, or; · pre-master program Biomedical Sciences. b) Students with a Dutch Higher Vocational Education degree, other than HLO but still in a field that is Health and Life Sciences related, are eligible to the MPA programme after completing: · the VU minor 'Global Health', or; · the pre-master programme Health Sciences ("pre-master programma Gezondheidswetenschappen"), or; · pre-master program Biology, or; · pre-master program Biomedical Sciences.	
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

1. Students may participate in interim examinations [and/or practical exercises] of the components below only if they have passed the interim examination or examinations for the component mentioned hereinafter: · Students need to have passed the exams and the practical exercises of the following three compulsory courses of year 1 before they can start their internships: i. Research Methods for Analyzing Complex Problems; ii. Analysis of Governmental Policy, and; iii. Communication, Organization and Management. · Students need to pass their first internship to start with their second internship; · Students need to pass the course Managing Science and Technology in Society before they can start the second internship; · A course can only be passed when the scores on all parts of the examination are sufficient (6.0 or higher).	Advice OLC; approval FGV (7.13 h, s & t)

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)
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

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. 9.38 sub b)

Article 8.4. Degree

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.

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: · Health and Life Sciences-Based Policy; · Health and Life Sciences-Based Management and Entrepreneurship; · International Public Health; · Communication in the Health and Life Sciences; · Community-based Health Technologies.	Advice OLC; (7.13 a)

Article 9.3 Programme objective

The MPA programme aims to develop researchers who are able to analyze and address complex problems by incorporating a wide diversity of perspectives from science and society. The MPA programme specifically focuses on conducting research at the interface of science and society, aiming to contribute to the solution of complex societal problems. The programme provides a broadening of the knowledge and skills from a bachelor scientific background in disciplines such as science, technology and society studies, policy science, and management studies. In the MPA programme, the following core competencies are developed: · Analysis of complex societal issues related to the health and life sciences; · Formulation and implementation of strategies to deal with complex societal problems by way of interdisciplinary research; · Effective cooperation and communication with researchers from scientific disciplines other than health and life sciences and with societal actors. The MPA program comprises five specializations with the following objectives: ***Health and Life Sciences-Based Policy*** This specialization equips the Master's graduate with insight in theories and strategies to address societal issues through governmental policy at various levels. Special knowledge and understanding is obtained in the discipline of policy analysis. Various forms of 'governance' and in particular interactive policy-making are discussed. In addition, the student acquires skills in data collection methods: from various written and digital sources, interviews to focus group sessions. At the end the student is independently able to facilitate group processes for interactive policy-making and apply various analytical tools to structure the multidisciplinary data towards strategic designed advices. ***Health and Life Sciences-Based Management and Entrepreneurship*** This specialization aims to provide the Master's graduate with insight in the management process of translating scientific knowledge from health and life sciences to societally relevant innovations. Relevant theories on management, organizations, policy making, innovation, leadership and finance are discussed. The Master's graduate has the ability to	Advice OLC; (7.13 a)

develop and critically assess strategies and plans for new business, organizational change and innovation, understands the relations between business development, science, innovation and society and masters relevant scientific data collection methods and analytical tools.

International Public Health

The Master's graduate with a specialization in international public health has a wide-ranging insight in current and future challenges in international public health, their main causes as well as applied and potential interventions. The Master's graduate obtains special knowledge on relevant concepts from various disciplines (including epidemiology, policy science, anthropology, management studies, biomedical sciences and health sciences). The Master's graduate has the ability to conduct scientific research in the field of international public health addressing international public health challenges and to critically assess the results of international public health research. He/she possesses knowledge of current theories and the key research questions in this field and has insight in the scientific and social relevance of this subject area.

Communication in the Health and Life Sciences

Communication about science issues takes place not only between peers but also between scientists and 'end users' and the general public. This makes it a complex and dynamic field of research and practice; e.g. on patient participation in health research, the use and effects of media metaphors and hypes, and public understanding of emergent technologies. The Master's graduate with this specialization has theoretical understanding of the complex problems that arise during such communication processes and has developed the skills necessary to behave professionally at this interface in an attempt to enhance communication (outcomes) between actors in science and society.

Community-based Health Technologies

Community health faces a number of challenges (e.g. changing demographics, long-term care under pressure, and increased demands of staff and resources) and technology can contribute to sustainable solutions for these. The Master's graduate with a specialization in community-based health technologies has the ability to engage with community members with the aim to identify their health-related needs and concerns. Furthermore, the graduate is able to collaborate with industrial technicians in order to develop health technologies that address the identified needs of the community, and is able to reflect on the impact that these new technologies have on community health. Therefore, the Master's graduate obtains knowledge and insights from innovation sciences, and specific technological knowledge from relevant disciplines (i.e. physics, computer sciences and health sciences), as this enriches his/her understanding of the dynamics between front-line and emerging innovative technologies and community-based health care.

Article 9.4 Exit qualifications

At all events, a graduate of the MPA study programme will have the following qualification levels regard to the Dublin descriptors **Dublin descriptor 1: Knowledge and understanding** *The graduate has theoretical and practical knowledge of management, policy analysis and entrepreneurship in the health and life sciences, in particular within the field of his/her specialization. The graduate:*	Approval OLC (7.13 c)

a. can demonstrate knowledge and understanding that are founded upon and extend the knowledge and understanding typically associated with the scientific discipline at the bachelor level (at least in one specific area of that discipline);
b. has insight in the various relevant disciplines in the social and behavioral sciences. More specifically, the student acquires insight in:
   - important concepts and theories in the field of policy science, organizational, management and innovation studies, applied philosophy and science, technology and society studies;
   - specialization the relation of these gamma sciences to the beta sciences, in particular health and life sciences;
c. has insight in concepts and the latest theories, research methodologies, analytical models and important research questions related to interdisciplinary research for addressing societal problems;
d. has knowledge of, and insight in, relevant concepts and theories for effective communication and collaboration;
e. understands group processes and knows methods and techniques to facilitate them within the framework of interdisciplinary research.

Dublin descriptor 2: Applying knowledge and understanding

The graduate is experienced in carrying out interdisciplinary research, in applying techniques specific to the subject area and in applying scientific knowledge to societal problems. The graduate:

a. can apply independently the research methodology used within the research field of specialization;
b. has the ability to integrate knowledge from the beta and gamma sciences, as well as from science and practice;
c. can apply scientific knowledge to formulate solutions to societal problems and assess them for appropriateness and societal relevance, while considering ethical and normative issues;
d. is able to reflect on the ethical aspects of research and its uses, and include these deliberations in the decision-making process;
e. adopts an appropriate attitude towards the correct and unbiased use and presentation of data.

Dublin descriptor 3: Making judgments

The graduate is able to independently and critically judge information. The graduate is able to:

a. independently acquire information in relevant areas in the health and life sciences and social and behavioral sciences through a literature review and by conducting empirical research, as well as evaluate such information critically;
b. select and order information, distinguish essentials from trivialities, and recognize connections;
c. independently and critically analyze research in the field of specialization, in relation to its design, planning and execution, and to the results obtained;
d. formulate personal learning objectives and critically evaluate own performance, both introspectively and in discussion with others.

Dublin descriptor 4: Communication

The graduate is able to transfer knowledge and skills related to his/her subject area to other people and to adequately reply to questions and problems posed within society. The graduate:

a. has acquired skills to report orally and in writing on research results in English;
b. has the ability to communicate research conclusions, and the knowledge and rationale underpinning them, to specialist audiences and non-specialist audiences clearly and unambiguously;

c. can collaborate with researchers from various scientific disciplines as well as professionals from industry and healthcare, policymakers and the general public; d. can make essential contributions to scientific discussions about plans, results and consequences of research. **Dublin descriptor 5: Learning skills** *The graduate has developed learning skills that enable him/her to continue with self-education and development within the subject area. The graduate:* a. is able to understand and summarize the scientific literature within the field of specialization; b. has acquired skills to develop a research plan, giving details of the problem statement, objectives, research questions, research approach, research methods, and planning; c. is familiar with the general scientific journals, such as Nature and Science, and with journals in the specialization, such as Research Policy, Health Policy, Science, Technology & Human Values, Social Science & Medicine, and International Journal on Technology Management; d. is familiar with relevant computer software; e. has the learning skills to allow him/her to continue to study in a manner that may be largely self- directed or autonomous (life-long learning).	

10. Curriculum structure

Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory and specialization-specific components, and an individual Master's thesis or academic internships. In the case of MPA: two academic internships.	Ordinance CvB, see appendix 3
2. Additionally, the programme offers 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

Article 10.2 Compulsory educational components

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

1. The following compulsory units of study apply to all students, regardless of the specialization, these are: — Advice OLC; (7.13 a)

Compulsory modules – all specializations

Course code	Educational component	Nr of EC	Level
AM_1182	Research Methods for Analyzing complex Problems	6	400
AM_470571	Analysis of Governmental Policy	6	500
AM_470572	Communication, Organization and Management	6	500
AM_470586	Managing Science and Technology in Society	6	600
AM_470707	Ethics in the Health and Life Sciences	3	400
AM_1160	Scientific Writing in English (AM_MPA)	3	400
AM_1251	Literature Review MPA	6	500
Science courses for which no permission of the Examination Board is required (6 EC required)		6	Min. 500

The Science course deepens the bachelor background. It is recommended to select a Science course in line with the bachelor background and related to the field of specialization. The course can be conducted in either year one or two and can be chosen from various science master programs. From the MPA program, the courses:

- *Containment Strategies for Infectious Diseases in Global Context (470585, 6 EC), or;*
- *Management of Innovative Technologies in Community Based Health Care (AM_1081, 6 EC), or;*
- *the **combination** of Clinical Development and Clinical trials (AM_1180, 3 EC) **and** Epidemiology (AM_1179, 3 EC)*

can be included as Science course.

If the student would like to select a science course of a level 400, or take a different course than the units of study listed below, advanced approval in writing form of the Examination Board is required. Students can take one of the four Science courses in the table below as part of their (specializations') elective.

Course code	**Educational component**	**Nr of EC**	**Level**
AM_1179	Epidemiology*	3	500
AM_1180	Clinical Development and Clinical Trials*	3	500
AM_1181	Management of Innovative Technologies in Community Based Health Care	6	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	500

Compulsory modules per specialization

The MPA specialization programme builds on the general compulsory modules (mentioned above) and comprises of specialization courses (at least 18 EC) and at least one internship in year 1 or 2. The specialization courses consist of a compulsory specialization course of (6 EC), and 12 EC's chosen from specialization-specific electives. The following tables show the compulsory specialization modules and the specialization electives

MSc MPA specialization Health and Life Sciences-Based Policy (POL)

Compulsory POL Courses

Course code	**Educational component**	**Nr of EC**	**Level**
AM_470589	Policy, Politics and Participation	6	500
AM_1121	Internship I MPA spec Policy	27	500
AM_471123	Internship II MPA spec Policy	30	600

Elective POL Courses – *Choose at least 12 EC of the following courses:*

Course code	**Educational component**	**Nr of EC**	**Level**
M_1002	Science in Dialogue	6	500
AM_470820	International Comparative Analysis of Health Care Systems	6	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	500

MSc MPA specialization Health and Life Sciences-Based Management and Entrepreneurship (ME)

Compulsory ME Courses

Course code	**Educational component**	**Nr of EC**	**Level**
AM_470584	Business management	6	500
AM_1120	Internship I MPA spec ME	27	500
AM_471119	Internship II MPA spec ME	30	600

Elective ME courses - *Choose at least 12 EC of the following courses*			
Course code	**Educational component**	**Nr of EC**	**Level**
AM_1181	Management of Innovative Technologies in Community Based Health care	6	500
AM_1193	Finance for Growth in Health and Life Science	6	500
AM_470575	Societal entrepreneurship in Health and Life Sciences	6	500
AM_1002	Science in Dialogue	6	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	500
AM_1179	Epidemiology	3	500
AM_1180	Clinical Development and Clinical Trials	3	500
MSc MPA specialization International Public Health (IPH)			
Compulsory IPH Courses			
Course code	**Educational component**	**Nr of EC**	**Level**
1. AM_470588 2. AM_470818 3. AM_470127	**Choose one** out of: 1. Disability and Development; 2. Health, Globalisation and Human Rights;; 3. Containment Strategies of infectious diseases in a Global Context.	6	500
AM_1119	Internship I MPA spec IPH	27	500
AM_471121	Internship II MPA spec IPH	30	600
Elective IPH Courses – *Choose at least 12 EC out of the following courses, but other than the choice of compulsory IPH Course made above*			
Course code	**Educational component**	**Nr of EC**	**Level**
AM_470588	Disability and development	6	500
AM_470818	Health, Globalisation and Human Rights	6	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	500
AM_470820	International Comparative Analyses of Health Care systems	6	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	500
AM_1179	Epidemiology	3	500
AM_1180	Clinical Development and Clinical Trials	3	500
AM_1194	Maternal and Child Health (Caput)	3	500
MSc MPA specialization Communication in the Health and Life Sciences (COM)			
Compulsory COM Courses			
Course code	**Educational component**	**Nr of EC**	**Level**
AM_470587	Science and Communication	6	500
AM_1126	Internship I MPA spec COM	27	500
1. AM_1162 2. AM_1163	Internship II MPA spec COM **choose one** out of**:** 1. Research Internship Science Communication; 2. Reflective Practice Internship Science Communication	30	500/600
Elective COM courses - *Choose at least 12 EC of the following courses*			

Course code	Course component	Nr of EC	Level
AM_1002	Science in Dialogue	6	500
AM_470590	Science Museology	6	500
AM_471014	Science Journalism	6	500

MSc MPA specialization Community-based Health Technologies (CHT)

Compulsory CHT. Courses

Course code	Educational component	Nr of EC	Level
AM_1181	Management of Innovative Technologies in Community Based Health care	6	500
AM_1219	Internship I MPA spec CHT	27	500
AM_1220	Internship II MPA spec CHT	30	600

Elective CHT Courses – *Choose at least 12 EC of the following courses*

Course code	Educational component	Nr of	Level
X_430583	Open innovation in Sciences	6	400
X_432723	Business, Innovation and Value Creation in the Life Science Industry	6	500
X_400108	Data Mining Techniques	6	500
X_400113	Behavior Dynamics in Social Network	6	400
XM_41014	Biomedical optics* **Specific entry requirements may be applicable*	6	400

Article 10.3 Elective educational components

Advice OLC; (7.13 a)

1. The student can take one or more of the following electives without prior consent from the Examination Board:
2. Electives (3-9 EC): when all compulsory and specialization-specific component are met, the remaining (3-9) EC's that are needed to reach the final 120 EC can be fulfilled with choosing out of any of the MPA specialization electives offered below. The courses provided in this table are thus open students from all MPA specializations. The amount of EC's (3-9) varies per student, as this depends on whether a Science Course requirement has been fulfilled by choosing an approved science course as part of the specialization-specific component or not.

Course code	Name of educational component	Nr of EC	Level
AM_1254	Interdisciplinary Community Service Learning: Defining Challenges in a Multi-Stakeholder Context	3	400
AM_1253	Interdisciplinary Community Service Learning: Addressing Challenges through Transdisciplinary Research	6	500
AM_470575	Societal entrepreneurship Health and Life Sciences	6	500
AM_1002	Science in Dialogue	6	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	500
AM_1179	Epidemiology	3	500
AM_1180	Clinical Development and Clinical Trials	3	500
AM_470589	Policy, Politics and Participation	6	500
AM_470587	Science and Communication	6	500

AM_470584	Business management	6	500
AM_1181	Management of Innovative Technologies in Community Based Health care	6	500
AM_1193	Finance for Growth in Health and Life Science	6	500
AM_1002	Science in Dialogue	6	500
AM_470590	Science Museology	6	500
AM_471014	Science Journalism	6	500
AM_1194	Maternal and Child Health (Caput)	3	500
AM_470588	Disability and development	6	500
AM_470818	Health, Globalisation and Human Rights	6	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	500
AM_470820	International Comparative Analyses of Health Care systems	6	500
Students with a specialization other than Community-based Health Technologies need approval of the Examination Board to follow on of the following (science) courses as Elective.			
X_430583	Open Innovation in Sciences	6	400
X_432723	Business, Innovation and Value Creation in the Life Science Industry	6	500
X_400108	Data Mining Techniques	6	500
X_400113	Behavior Dynamics in Social Network	6	400
XM_41014	Biomedical optics	6	400

3. If the student wishes to take a different educational component than listed, advance permission must be obtained in writing from the Examinations Board.	Advice OLC; (7.13 a)

Article 10.4 Participation in practical exercise

In the case of a practical training, the student must attend at least 100 % of the practical sessions. Should the student attend less than 100 %, he/she must repeat the practical training, or the Examinations Board may have one or more supplementary assignments issued.	Approval OLC (7.13 d)

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)

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: 1) The course below is no longer available in the program but is still a compulsory component for students who started their program before academic year 2014-2015 and have passed the courses' examinations. · AM_470582 _ Qualitative and quantative Research Methods (6 EC).	Advice OLC (7.13 a)

2) The course below is no longer available in the program but is still an elective component for students who started their program before academic year 2015-2016 and have passed the courses' examinations.
   - AM_470585 Clinical Development and Clinical trials (6 EC).

3) The internship below is no longer available in the program but is still a compulsory component for students who started their program before academic year 2014-2015 and have passed the courses' examinations.
   - AM_471116 Internship I MPA (30 EC)

4) Students who followed the course Containment Strategies of Infectious Disease in a Global Context in the Academic Year 2016-2017 or 2017-2018 can apply to the exam board that the course is accounted as a Policy course.

5) The course below is no longer available in the specializations Health and Life Science based Policy and Health and Life Science based communication as an elective and Science course but is still an elective and Science course for students in these two tracks who started their program before academic year 2018-2019 and have passed the courses' examinations.
   - AM Management of Innovative Technologies in Community Based Health care

6) The courses below are no longer available in the program but are still a compulsory component for students who started their program before academic year 2018-2019 and have passed the courses' examinations.
   - § AM_470582 Thesis (12 EC);
   - § AM_1127 Thesis MPA spec IPH (12EC);
   - § AM_1128 Thesis MPA spec Pol (12EC);
   - § AM_1129 Thesis MPA spec Com(12EC);
   - § AM_1130 Thesis MPA spec ME (12EC);
   - § AM_ Thesis MPA spec CHT (12EC)

7) 7) Students who started in academic year 2018-2019 can opt for a 12 EC literature thesis instead of Literature Review MPA 6 EC. Then, instead of choosing 12 EC of specialization electives, the student needs to choose at least 6 (conform with OER 2018-2019).

Advice and approval by the Programme Committee of M MPA, on 15 April 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

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 2 sub l, x
[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 k

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 b, c
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 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 *(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

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