

## Teaching and Examination Regulations (TER)

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

**Faculty of Science**

**Academic year 2018-2019**

**B1: Programme specific section - general provisions**

**B2: Programme specific section – content of programme**

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## 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)
1a	The part-time programme has a nominal duration of study of 2 year(s).	Advice OLC; approval FGV (7.13 i)
1d	The language of instruction is English	Advice OLC; approval FGV (9.38 b)
2.	A unit of study comprises 6 EC or a multiple thereof. The units listed below have a different size: Literature thesis (12 EC), two internships (respectively 27 EC in year one and 30 EC in the second year 2) and six 3 EC courses: (1) Ethics and (2) Innovation, Behaviour, Economy and Markets (3) Scientific Writing in English (4) Epidemiology (5) Clinical Development and Clinical Trials and (6) Caput Maternal and Child Health.	

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

1.	The degree programme uses the following teaching formats:  The programme uses the teaching formats as specified in the Study Guide.	Advice OLC; approval FGV (7.13 x)
2.	The degree programme uses the following modes of assessment:  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 b)
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#### Article 7.2 Admission requirements

1. Students with a BSc degree in one of the following programmes from a Dutch university are eligible for direct admission to the MPA programme: Biology, Biomedical Sciences, Health Sciences, Health and Life Sciences, Medical Natural Sciences, Medical Informatics, Bioinformatics, Biochemistry, Pharmaceutical Sciences, Human Movement Sciences, Beta-gamma studies (with a major in Chemistry, Ecology and Evolution, Biomedical Sciences, Brain and cognition, Physics and astronomy, Mathematics), Psychobiology, HLO Biology and Medical Laboratory Research, Medicine, University Colleges with at least a minor in a beta subject. Students with a bachelor programme in Natural Sciences and innovations or Science, Business and Innovations are eligible for admission to the MPA programme. However, the beta component of the bachelor is assessed by the admission board. The admission board might decide that the student needs to conduct an additional 6 EC Science course instead of an optional course.	Partly legal provision & ordinance CvB, see appendix 3. Admission requirements excepted from participation in WHW
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Students with Bachelor of Science degree in another subject or with a Bachelor diploma obtained at a (inter)national university or Dutch institute of higher education, may be admitted to the programme.	
2. The Admissions Board will investigate whether the applicant meets the admission requirements.	Legal provision

#### Article 7.3 English language requirement for English-language Master's programmes

<p>1. The proficiency requirement in English as the language of instruction can be met, if no longer than two years before the start of the programme the applicant has successfully completed one of the following examinations with the minimum scores indicated:</p> <ul style="list-style-type: none"> <li>- IELTS: 6.5</li> <li>- TOEFL paper based test: 580 schijnt te laag in niveau te zijn</li> <li>- TOEFL internet based test: 92</li> <li>- Cambridge Advanced English: A, B or C passed.</li> </ul> <p>This does not hold for students who have a bachelor degree from a Dutch University or from a country where English is the native language.</p> <p>2. Exemption is granted from the examination in English referred to in the first paragraph of this article to:</p> <ul style="list-style-type: none"> <li>a. students who completed an English-taught secondary or higher education degree in Canada, the United States, the United Kingdom, Ireland, New Zealand or Australia;</li> <li>b. those who have earned a bachelor's or master's degree in an English-taught programme accredited by NVAO in the Netherlands;</li> <li>c. those who have earned a Bachelor's or Master's degree in an accredited English-taught programme in another member state of the European Union;</li> <li>d. and otherwise, if the admission is granted by the Admission Board of the programme concerned.</li> </ul>	Landelijke gedragscode Internationale studenten
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#### Article 7.4 Pre-Master's programme

1. Students with a Bachelor's degree in a field that corresponds to a sufficient extent with the subject area covered by the Master's programme can request admission to the VU pre- Master's programme of health sciences ("pre-master programma Gezondheidswetenschappen"), or pre-master program Biology or pre master program Biomedical Sciences. The master's programme Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences does not offer its own pre-master's programme, but accepts those students who successfully completed the "Pre-Master programma Gezondheidswetenschappen", pre-Master program Biology or pre-Master program Biomedical Sciences.	advies OLC; instemming FGV (9.38 b)
2. The pre-Master's programme comprises 30 EC and is made up of units of study depending on the specialisation chosen by the student.	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 b)

## 8. Interim examinations and results

### Article 8.1 Sequence of interim examinations

<p>Students may participate in examinations [and/or practical exercises] for the units below only if they have passed the examination or examinations for the units mentioned:</p> <ul style="list-style-type: none"> <li>- Students need to have passed the exams and the practical exercises of the three compulsory courses of year 1 before they can start their internships.</li> <li>- Students need to pass their first internship to start with their second internship.</li> <li>- Students need to pass the course Managing Science and Technology in Science 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).</li> </ul>	<p>Advice OLC; approval FGV (7.13 h, s &amp; t)</p>
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### Article 8.2 Validity period for results

<p>No further specific provisions.</p>	<p>Advice OLC; approval FGV (7.13 k)</p>
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### Art. 8.3. Degree

<p>Degree Students who have successfully completed their Master's final Examination are awarded a Master of Science degree. The degree awarded is stated on the diploma. If it is a joint degree, this will also be stated on the diploma.</p>
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## Section B2: Programme specific – content of programme

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

#### Article 9.1 Workload

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

<p>The programme has the following specializations:</p> <p>Health and Life Sciences-Based Policy</p> <p>Health and Life Sciences-Based Management and Entrepreneurship</p> <p>International Public Health</p> <p>Communication in the Health and Life Sciences</p> <p>Community-based Health Technologies</p>	Advice OLC; (7.13 a)
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#### Article 9.3 Programme objective

<p>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:</p> <ul style="list-style-type: none"> <li>&gt; Analysis of complex societal issues related to the health and life sciences</li> <li>&gt; Formulation and implementation of strategies to deal with complex societal problems by way of interdisciplinary research</li> <li>&gt; Effective cooperation and communication with researchers from scientific disciplines other than health and life sciences and with societal actors.</li> </ul> <p>The MPA program comprises five specialisations with the following objectives:</p> <p><i>Health and Life Sciences-Based Policy:</i> 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.</p> <p><i>Health and Life Sciences-Based Management and Entrepreneurship:</i> 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 develop and critically assess strategies</p>	Advice OLC; (7.13 a)
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<p>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.</p> <p><i>International Public Health:</i> 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.</p> <p><i>Communication in the Health and Life Sciences:</i> 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.</p> <p><i>Community-based Health Technologies:</i> 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.</p>	
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#### Article 9.4 Exit qualifications

<ol style="list-style-type: none"> <li>1. At all events, a graduate of the study programme will have the following:"</li> <li>2. The final attainment levels of the MPA programme with regard to the Dublin descriptors are given below.</li> </ol> <p><b>Dublin descriptor 1: Knowledge and understanding</b></p> <p><i>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</i> The graduate:</p> <ol style="list-style-type: none"> <li>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</li> </ol>	<p>Approval OLC (7.13 c)</p>
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<p>level (at least in one specific area of that discipline);</p> <p>b. has insight in the various relevant disciplines in the social and behavioral sciences. More specifically, the student acquires insight in:</p> <p>- 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;</p> <p>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;</p> <p>d. has knowledge of, and insight in, relevant concepts and theories for effective communication and collaboration;</p> <p>e. understands group processes and knows methods and techniques to facilitate them within the framework of interdisciplinary research.</p> <p><b>Dublin descriptor 2: Applying knowledge and understanding</b>  <i>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:</i></p> <p>a. can apply independently the research methodology used within the research field of specialization;</p> <p>b. has the ability to integrate knowledge from the beta and gamma sciences, as well as from science and practice;</p> <p>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;</p> <p>d. is able to reflect on the ethical aspects of research and its uses, and include these deliberations in the decision-making process;</p> <p>e. adopts an appropriate attitude towards the correct and unbiased use and presentation of data.</p> <p><b>Dublin descriptor 3: Making judgments</b>  <i>The graduate is able to independently and critically judge information. The graduate is able to:</i></p> <p>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;</p> <p>b. select and order information, distinguish essentials from trivialities, and recognize connections;</p> <p>c. independently and critically analyze research in the field of specialization, in relation to its design, planning and execution, and to the results obtained;</p> <p>d. formulate personal learning objectives and critically evaluate own performance, both introspectively and in discussion with others.</p> <p><b>Dublin descriptor 4: Communication</b>  <i>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:</i></p> <p>a. has acquired skills to report orally and in writing on research results in English;</p> <p>b. has the ability to communicate research conclusions, and the knowledge and rationale underpinning them, to specialist audiences and non-specialist</p>	
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<p>audiences clearly and unambiguously;</p> <p>c. can collaborate with researchers from various scientific disciplines as well as professionals from industry and healthcare, policymakers and the general public;</p> <p>d. can make essential contributions to scientific discussions about plans, results and consequences of research.</p> <p><b>Dublin descriptor 5: Learning skills</b>  <i>The graduate has developed learning skills that enable him/her to continue with self-education and development within the subject area. The graduate:</i></p> <p>a. is able to understand and summarize the scientific literature within the field of specialization;</p> <p>b. has acquired skills to develop a research plan, giving details of the problem statement,          objectives, research questions, research approach, research methods, and planning;</p> <p>c. is familiar with the general scientific journals, such as <i>Nature</i> and <i>Science</i>, and with journals in          the specialization, such as <i>Research Policy</i>, <i>Health Policy</i>, <i>Science</i>, <i>Technology &amp; Human Values</i>, <i>Social Science &amp; Medicine</i>, and <i>International Journal on Technology Management</i>;</p> <p>d. is familiar with relevant computer software;</p> <p>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).</p>	
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## 10. Curriculum structure

### Article 10.1 Composition of the programme

1. The programme comprises at least a package of compulsory components and an individual Master's thesis or academic internship.	Ordinance CvB, see appendix 3
2. Additionally the programme can offer: - 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.

The compulsory units of study are:

Compulsory modules - all specializations					Advice OLC; (7.13 a)
Course code	Course component	EC	Period	Level	
AM_1182	Research Methods for Analyzing complex Problems	6	Period 1	400	
AM_470571	Analysis of Governmental Policy	6	Period 1	500	
AM_470572	Communication, Organization and Management	6	Period 2	500	
AM_470586	Managing Science and Technology in Society	6	Period 1	600	
AM_470707	Ethics in the Health and Life Sciences	3	Period 3	400	
AM_1160	Scientific Writing in English (AM_MPA)	3	Period 4+5+6	400	

Various	Science course *	6	Various	Min. 500	
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\*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 specialisation. 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), 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, approval of the Examination Board is required.

<b>Science courses for which no permission of the Examination Board is required (6 EC required)</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>
AM_1179	Epidemiology*	3	Period 3	500
AM_1180	Clinical Development and Clinical Trials*	3	Period 3	500
AM_1181	Management of Innovative Technologies in Community Based Health Care	6	Period 2	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	Period 1	500

\* Only when Epidemiology and Clinical Development and Clinical Trials are combined.

If the student wishes to take a different course than the units of study listed, advance permission must be obtained in writing from the Examinations Board.

#### **Compulsory modules per specialization (75 EC)**

The MPA specialization programme exists of the general compulsory modules, specialization courses (at least 12 EC) and thesis and at least one internship in year 1 or 2. Each specialization has a mandatory specialization course (6EC). For the second specialization course there are several (restricted) choices. The following tables show the mandatory specialization modules and the (restricted) choices for each specialization:

<b>MSc MPA specialization Communication in the Health and Life Sciences</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>
AM_470587	Science and Communication	6	Period 1	500
AM_1126	Internship I MPA spec Communication	27	Ac. Year	500
AM_1129	Thesis MPA spec Com	12	Period 1+2+3+4	600
1) AM_1162 2) AM_1163	Internship II MPA spec Com <b>choose one:</b> 1) Research Internship Science Communication 2) Reflective Practice Internship Science Communication	30	Ac. Year	500/ 600

<b>MSc MPA specialization International Public Health</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>

AM_470588 AM_470818 AM_470127	Restricted compulsory choice one of the following courses: Disability and Development, Health, Globalisation and Human Rights or Containment Strategies of infectious diseases in a Global Context	6	Period 1+2	500
AM_1119	Internship I MPA spec IPH	27	Ac. Year	500
AM_1127	Thesis MPA spec IPH	12	Period 1+2+3+4	600
AM_471121	Internship II MPA spec IPH	30	Ac. Year	600

#### **MSc MPA specialization Health and Life Sciences-Based Management and Entrepreneurship**

Course code	Course component	EC	Period	Level
AM_470584	Business management	6	Period 2	500
AM_1120	Internship I MPA spec ME	27	Ac. Year	500
AM_1130	Thesis MPA spec ME	12	Period 1+2+3+4	600
AM_471119	Internship II MPA spec ME	30	Ac. Year	600

#### **MSc MPA specialization Health and Life Science-Based Policy**

Course code	Course component	EC	Period	Level
AM_470589	Policy, Politics and Participation	6	Period 2	500
AM_1121	Internship I MPA spec Policy	27	Ac. Year	500
AM_1128	Thesis MPA spec Pol	12	Period 1+2+3+4	600
AM_471123	Internship II MPA spec Policy	30	Ac. Year	600

#### **MSc MPA specialization Community-based Health Technologies**

AM_1181	Management of Innovative Technologies in Community Based Health care	6	Period 2	500
Course code	Course component	EC	Period	Level
AM_	Internship I MPA spec CHT	27	Ac. Year	500
AM_	Thesis MPA spec CHT	12	Period 1+2+3+4	600
AM_	Internship II MPA spec CHT	30	Ac. Year	600

#### **Msc MPA General program**

AM_1122	Thesis MPA (without spec)	12	Ac. Year	600
AM_	Internship I MPA (without spec)	27	Ac. Year	500
AM_	Internship II (without spec)	30	Ac. Year	600

### Article 10.3 Elective educational components

The student can take the following electives:

<b>MSc MPA specialization Communication in the Health and Life Sciences</b>				
<b>Choose at least 6 EC of the following courses</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>
AM_1002	Science in Dialogue	6	Period 2	500
AM_470590	Science Museology	6	Period 3	500
AM_471014	Science Journalism	6	Period 2	500

<b>MSc MPA specialization International Public Health</b>				
<b>Compulsory (restricted) choices: at least 12 EC to be obtained (of which at least 6 EC from the first three) Choose at least 6 EC from the following courses (this course in combination with the 'restricted compulsory course' these should make up 12 EC)</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>
AM_470588	Disability and development	6	Period 2	500
AM_470818	Health, Globalisation and Human Rights	6	Period 2	500
AM_470127	Containment Strategies of infectious diseases in a Global Context	6	Period 1	500
AM_470820	International Comparative Analyses of Health Care systems	6	Period 3	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	Period 3	500
AM_1179	Epidemiology	3	Period 3	500
AM_1180	Clinical Development and Clinical Trials	3	Period 3	500
AM_1194	Maternal and Child Health (Caput)	3	Ac. Year	500

<b>MSc MPA specialization Health and Life Sciences-Based Management and Entrepreneurship</b>				
<b>Choose at least 6 EC of the following courses:</b>				
<b>Course code</b>	<b>Course component</b>	<b>EC</b>	<b>Period</b>	<b>Level</b>
AM_1181	Management of Innovative Technologies in Community Based Health care	6	Period 2	500
AM_1193	Finance for Growth in Health and Life Science	6	Period 2	500

AM_470575	Societal entrepreneurship Health and Life Sciences	6	Period 1	500
AM_470583	Management of CSR	6	Period 1	500
AM_1002	Science in Dialogue	6	Period 2	500
AM-1052	Innovation, Behavior, Emergence			
AM_1179	Epidemiology	3	Period 3	500
AM_1180	Clinical Development and Clinical Trials	3	Period 3	500

<b>MSc MPA specialization Health and Life Science-Based Policy</b>				
<b>Choose at least 6 EC of the following courses:</b>				
AM_1002	Science in Dialogue	6	Period 2	500
AM_470820	International Comparative Analysis of Health Care Systems	6	Period 3	500
AM_470127	Containment Strategies of infectious diseases in a Global	6	Period 1	500
AM_1052	Innovation, Behavior, Emergence and Markets	3	Period 3	500

<b>MSc MPA specialization Community-based Health Technologies</b>				
<b>Choose at least 12 EC of the following courses:</b>				
<i>*Specific entry requirements may be applicable per course</i>				
X_430583	Open innovation in Sciences	6	Period 2	400
X_432723	Business, Innovation and Value Creation in the Life Science Industry	6	Period 3	500
XM_40012	Machine Learning for the Quantified Self	6	Period 6	400
X_400113	Behavior Dynamics in Social Network	6	Period 2	400
XM_41014	Biomedical optics	6	Period 5	400
X_405086	The Social Web	6	Period 4	400

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)
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#### Article 10.5 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)
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#### Article 10.6 Maximum exemption

<p>There is a maximum of 40 EC in total that can be accumulated through granted exemptions (each student should at least obtain 80 EC within the master programme MPA):</p> <ul style="list-style-type: none"> <li>- either a maximum 40 EC can be accumulated from a completed master programme with aduration of two years (120 EC)</li> <li>- or a maximum of 20 EC can be accumulated from a completed master programme with a duration of one year (60 EC)</li> </ul>	Approval OLC (7.13 a)
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### 11. Evaluation and transitional provisions

#### Article 11.1 Evaluation of the education

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

<p>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:</p> <p>1) The course below is no longer available in the program but are still a compulsory component for students who started their program before academic year 2014-2015 and have passed the courses' examinations.</p> <p>AM_470582 _ Qualitative and qualitative research methods (6 EC)</p> <p>2) The course below is no longer available in the program but are still elective component for students who started their program before academic year 2015-2016 and have passed the courses' examinations.</p> <p>AM_470585 Clinical Development and Clinical trials (6 EC)</p> <p>3) The internship below is no longer available in the program but are still a compulsory component for students who started their program before academic year 2014-2015 and have passed the courses' examinations.</p> <p>AM_471116 Internship I MPA (30 EC)</p> <p>4) Students who started in or before the academic year 2013-2014 can opt for a 9 EC literature thesis</p>	Advice OLC (7.13 a)
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5) 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.	
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6) 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.	
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AM__ Management of Innovative Technologies in Community Based Health care	
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Advice and approval by the Programme Committee, on March 27 2018

Approved by the Faculty Joint Assembly, on June 26, 2018

Adopted by the board of the Faculty of Science on June 26, 2018

**Appendix I**

Overview of articles that must be included in the OER

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

## Section B1: Programme specific – general provisions

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

## Section B2: Programme specific – content of programme

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



**Appendix II**

Table of right of advice and right of approval by the OLC and FGV  
(translation to English at a later stage)

<b>Onderwerpen Onderwijs – en Examenregeling (OER) 7.13 paragraph 2 WHW</b>	<b>FGV</b>		<b>OplC</b>	
	<b>I</b>	<b>A</b>	<b>I</b>	<b>A</b>
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				
<b>f. de nadere regels, bedoeld in de Articleen 7.8b, zesde paragraph, en 7.9, vijfde paragraph (BSA)</b>				
<b>g. ten aanzien van welke masteropleidingen toepassing is gegeven aan Article 7.4a, achtste paragraph (verhoogde studielast)</b>				
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				
<b>v. indien van toepassing: de wijze waarop de selectie van studenten voor een speciaal traject binnen een opleiding, bedoeld in Article 7.9b, plaatsvindt (excellentietraject binnen een opleiding)</b>				
x. de feitelijke vormgeving van het onderwijs				
<i>alle overige onderwerpen die in de OER zijn geregeld maar die niet als zodanig zijn genoemd in art. 7.13 WHW onder a t/m x.</i>				

*De lettering komt overeen met de lettering van Article 7.13 paragraph 2 WHW*

**Appendix III**

## Ordinances VU CvB and Binding Guidelines (richtlijn)

<b>Section A, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
2.1.1, 2.1.2	Year planning two semesters 8-8-4 (uniforme jaarkalender VU-UvA)	29-9-2008 (period 2009-2015) 22-05-2014 (periode 2016-2025)
2.1.3, 2.1.4	Educational components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
3.1	Compulsory signing up	CvB ordinance 30-09-2010, prior consent USR.
3.4.1	Determination and publication of the results (1) Grading deadline exams 10 workdays (2) Theses 20 workdays	(1) Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017 (2) Quality demand 11 from the VU assessment policy, CvB ordinance 15-05-2012
3.5.1	Two possibilities to take examinations per year	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
3.5.2	Retake: most recent grade is valid. A pass can be retaken	Taken from the UvA guidelines, as part of the harmonization, CvB ordinance 24-02-2014
3.5.4	Extra retake last year	Included in (prior) model OER 16-17 following a request from committee O&O and adopted by CvB op 27-10-2015
3.6	Grades	CvB ordinance 30-09-2010, with University council's consent. As a result of harmonization UvA, the guideline: 5.5 is a pass, has been added. CvB ordinance 24-02-2014.
<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
7.2.1	Admission criteria; at least WO Bachelor's degree	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
7.2.3	Additional admission criteria; type of criteria	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
<b>Section B1, article:</b>	<b>Concerns:</b>	<b>CvB ordinance / guideline</b>
10.1	Composition programme	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017
10.2	Categorization of components	Richtlijn Bachelor en Masteronderwijs, revised on 6 June 2017