



VRIJE
UNIVERSITEIT
AMSTERDAM

Faculty of Science

Teaching and Examination Regulations

MASTER's Degree Programme

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

B. Programme-specific section

Academic year 2017-2018

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Section B: Programme-specific section

1. General provisions

Article 1.1 Definitions

As laid down in article 1 of TER part A.

MPA Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences

The Examination Board The Examination board determines the rules related to the examination procedures. It appoints examiners and can give directions for the assessment and the results of the examinations.

Article 1.2 Degree programme information

1. The programme Management, Policy Analysis and Entrepreneurship in the Health and Life Sciences (MPA) CROHO number 60803 is offered on a full-time basis and the language of instruction is English.
2. The programme has a workload of 120 EC.
3. A unit of study comprises 6 EC or a multiple thereof, except for the thesis (12 EC), two internships (respectively 27 EC in year one and 30 EC in the second year EC) and six 3 EC courses: (1) Ethics and (2) Innovation, Behaviour and Economy, and (3) Scientific Writing in English (4) Epidemiology (5) Clinical Development and Clinical Trials and (6) Caput Maternal and Child Health

Article 1.3 Intake dates

The programme is offered starting in the first semester of the academic year only (1 September). The intake date(s) mentioned in this paragraph ensure(s) that a programme can be completed within the nominal study duration set for the programme.

2. Programme objectives and exit qualifications

Article 2.1 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 specialisations 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 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 challenges. 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 2.2 [Exit qualifications](#)

In all events, a graduate of the degree programme will have the following:

The final attainment levels of the MPA programme with regard to the Dublin descriptors are given below.

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:

- 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).

3. Further admission requirements

Article 3.1 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.

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 interested person meets the admission requirements. Students should have at least 120 EC of beta related courses in their bachelor program (with an exception for premaster students, see article 3.2).
3. Any individual who has obtained a Bachelor's degree in academic higher education on [one of the] degree programme[s] at the VU meets the requirements referred to in paragraph 1:
 - a: Biology,
 - b: Biomedical Sciences
 - c: Health Sciences
 - d: Health and Life Sciences
 - e: Medical Natural Sciences,
 - f: Pharmaceutical Sciences
 - g: Human Movement Sciences
 - h: Medicine
4. When the programme commences, the candidate must have fully completed the Bachelor's programme or pre-Master's programme allowing admission to this Master's programme.

Article 3.2 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-Masterprogramma 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.
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.
3. Proof of a successfully completed pre-Master's programme serves as proof of admission to the Master's programme specified within the subsequent academic year.

Article 3.3 Limited programme capacity

Not applicable

Article 3.4 Final deadline for registration

A candidate must submit a request to be admitted to the programme through Studielink before 1 June in the case of Dutch students, before 1 April in the case of EU students and before 1 February in the

case of non-EU students. Under exceptional circumstances, the Examinations Board may consider a request submitted after this closing date.

Article 3.5 English language requirement for English-language Master's programmes

1. The proficiency requirement in English as the language of instruction can be met by the successful completion of one of the following examinations or an equivalent:
 - IELTS: 6.5
 - TOEFL paper based test: 580
 - TOEFL internet based test: 92-93
 - Cambridge Advanced English: A, B or C.

For TOEFL and IELTS, the test must have been completed no more than **two years** before **1 September** of the year in which your course starts.

2. Exemption is granted from the examination in English referred to in the first paragraph to students who, within two years prior to the start of the programme:
 - met the requirements of the VU test in English language proficiency TOEFL ITP, with at least the scores specified in paragraph 1, or
 - had previous education in secondary or tertiary education in an English-speaking country as listed on the VU website, or
 - have an English-language 'international baccalaureate' diploma

Article 3.6 General program

1. Subject to certain conditions, the student has the option of compiling a curriculum of his/her own choice which deviates from the curricula prescribed by the programme.
2. The concrete details of such a curriculum must be approved beforehand by the most appropriate Examinations Board.
3. The **general program** is put together by the student from the units of study offered by Vrije Universiteit Amsterdam or another institution of higher education and must at least have the size, breadth and depth of a regular Master's programme.

4. Curriculum structure

Article 4.1 Composition of programme

1. The programme consists of the following components:
 - a. compulsory units of study
 - b. practical exercise
 - c. electives

Article 4.2 Compulsory units of study

Abbreviations of teaching method and type of test are defined in the study guide.

The compulsory units of study are:

Compulsory modules - all specializations				
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, Organisation 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

*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.

Science courses for which no permission of the Examination Board is required (6 EC required)				
Course code	Course component	EC	Period	Level
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

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 internships in year 1 and 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:

MSc MPA specialization Communication in the Health and Life Sciences

Course code	Course component	EC	Period	Level
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
AM_471125 1) AM_1162 2) AM_1163	Internship II MPA spec Com choose one: 1) Research Internship Science Comm. 2) Reflective Practice Int. SC. Comm.	30	Ac. Year	600

MSc MPA specialization International Public Health

Course code	Course component	EC	Period	Level
AM_470588 AM_470818 AM_470127	Restricted compulsory choice one of the following courses Disability and development (AM Health, Globalisation and Human Rights Containment Strategies of infectious diseases in a Global Context	6	Period 2+3	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	500

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

Article 4.4 Electives

The student can take the following electives:

MSc MPA specialization Communication in the Health and Life Sciences				
Choose at least 6 EC of the following courses				
Course code	Course component	EC	Period	Level
AM_1002	Science in Dialogue	6	Period 2	500
AM_1181	Management of Innovative Technologies	6	Period 2	500
AM_470590	Science Museology	6	Period 3	500
AM_471014	Science Journalism	6	Period 2	500

MSc MPA specialization International Public Health				
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' - article 4.3- these should make up 12 EC)				
Course code	Course component	EC	Period	Level
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 Analyses of Health Care systems	6	Period 3	500
AM_1052	Innovation Behavior and Economy	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

MSc MPA specialization Health and Life Sciences-Based Management and Entrepreneurship				
Choose at least 6 EC of the following courses:				
Course code	Course component	EC	Period	Level
AM_1002	Science in Dialogue	6	Period 2	500
AM_1052	Innovation Behavior and Economy	3	Period 3	500
AM_1179	Epidemiology	3	Period 3	500
AM_1180	Clinical Development and Clinical Trials	3	Period 3	500
AM_1181	Management of Innovative Technologies	6	Period 2	500
AM_1193	Finance for Growth	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

MSc MPA specialization Health and Life Science-Based Policy				
Choose at least 6 EC of the following courses:				
AM_1002	Science in Dialogue	6	Period 2	500
AM_1052	Innovation Behavior and Economy	3	Period 3	500
AM_1181	Management of Innovative Technologies in Community Based Health Care	6	Period 2	500
AM_470820	International Analyses of Health Care of health care systems	6	Period 3	500

MSc MPA specialization Community-based Health Technologies				
Choose at least 6 EC of the following courses:				
AM_470589	Policy, Politics and Participation	6	Period 2	500
AM_1052	Innovation Behavior and Economy	3	Period 3	500
AM_1193	Finance for Growth	6	Period 2	500
Various	Science courses offered by SBI, Physics, Computer Sciences, and Health Sciences <i>*After approval of the Examination Board</i>	6	Ac. Year	500/600

Article 4.5 Sequence of examinations

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:

- 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.
- Students need to pass their first internship to start with their second internship.
- 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).

Article 4.6 Participation in practical exercise and tutorials

1. 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 examiner may have one or more supplementary assignments issued.
2. In the case of tutorials with assignments, the student must attend at least 100 % of the tutorials. Should the student attend less than 100 %, he/she must repeat the study group, or the Examinations Board may have one or more supplementary assignments issued.
3. In exceptional circumstances, the Examinations Board may, at the request of the student, permit an exemption from this requirement if, in the opinion of the Board, the assessment of the intended skills is also possible with a lesser percentage of participation, with or without the imposition of supplementary requirements.

Article 4.7 Maximum exemption

There is a maximum to the number of in total 40 EC of the MPA curriculum that can be accumulated through granted exemptions (each student should at least obtain 80 EC within the master programme MPA):

- either a maximum 40 EC can be accumulated from a *completed* master programme with a duration of two years (120 EC)
- or a maximum of 20 EC can be accumulated from a *completed* master programme with a duration of one year (60 EC)

Article 4.8 Validity period for results

No further specific provisions.

Article 4.9 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.

5. Transitional and final provisions

Article 5.1 Amendments and periodic review

1. Any amendment to the Teaching and Examination Regulations will be adopted by the faculty board after taking advice, and if necessary approval by the Programme Committee concerned. A copy of the advice will be sent to the authorized representative advisory body.
2. An amendment to the Teaching and Examination Regulations requires the approval of the authorized representative advisory body if it concerns components not related to the subjects of Section 7.13, paragraph 2 sub a to g and v of the WHW and the requirements for admission to the Master's programme.
3. An amendment to the Teaching and Examination Regulations can only pertain to an academic year that is already in progress if this does not demonstrably damage the interests of students.

Article 5.2 Transitional provisions

Notwithstanding the current Teaching and Examination Regulations, 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 are 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 qualitative research methods (6 EC)

- 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.

AM_470585 Clinical Development and Clinical trials (6 EC)

- 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.

AM_471116 Internship I MPA (30 EC)

- 4) Students who started in or before the academic year 2013-2014 can opt for a 9 EC literature thesis.

Article 5.3 Publication

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

Article 5.4 Effective date

These Regulations enter into force with effect from 1 September 2017.

Advice from Programme Committee MPA, on 13 May 2017

Approved by authorized representative advisory body, on 6 July 2017

Adopted by the Faculty Board, on 21 July 2017

Appendix I

List of articles that must be included in the OER pursuant to the WHW (articles in framed boxes):

Section A

Art. 1.1	7.13, para 1, WHW
Art. 2.1	7.13, para 2 sub w
Art. 3.2	7.13, para 2 sub e
Art. 4.2	7.13, para 2 sub h and l
Art. 4.3	7.13, para 2 sub n
Art. 4.4	7.13, para 2 sub o
Art. 4.5	7.13, para 2 sub j, h
Art. 4.7	7.13, para 2 sub r
Art. 4.8	7.13, para 2 sub k
Art. 4.9	7.13, para 2 sub p
Art. 4.10	7.13, para 2 sub q
Art. 4.11	7.13, para 2 sub a
Art. 5.1	7.13, para 2 sub u
Art. 5.2	7.13, para 2 sub m

Section B

Art. 1.2	7.13, para 2 sub i
Art. 2.1	7.13, para 1 sub b, c
Art. 2.2	7.13, para 2 sub c
Art. 3.1	7.25, para 4
Art. 4.1	7.13, para 2 sub a
Art. 4.2	7.13, para 2 sub e, h, j, l
Art. 4.3	7.13, para 2 sub t
Art. 4.4	7.13, para 2 sub e, h, j, l
Art. 4.5	7.13, para 2 sub s
Art. 4.6	7.13, para 2 sub d
Art. 4.8	7.13, para 2 sub k