


VUMC SCHOOL OF MEDICAL SCIENCES

Academic and Examination Regulations

Master Cardiovascular Research

CROHO 66586

**A. Faculty section
Academic year 2018-2019**

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Section A Faculty section

1 General provisions

Article 1.1 Applicability of the Regulations

1. These regulations apply to the teaching and examinations for the Master's degree programs Cardiovascular Research Oncology Medicine and Epidemiology (hereinafter referred to as *the degree program*) provided by the Faculty of VUmc School of Medical Sciences (hereinafter referred to as *the faculty*).
2. These Regulations consist of a faculty section (A) and a program-specific section (B). Section A contains general provisions and applies to the teaching and examinations of the Master's degree programs of the faculty. Section B contains program-specific provisions. Together, Sections A and B form the Academic and Examination Regulations for the programs.
3. The Regulations can be declared to apply *mutatis mutandis* to the joint degree programs and units of study, pursuant to Section 7.3c of the WHW, also provided by the faculty.
4. These Regulations apply to anyone enrolled in the program, irrespective of the academic year in which the student was first enrolled in the program.
5. Section B of these Academic and Examination Regulations may contain additional general provisions for the relevant degree program.

Article 1.2 Definitions

The following definitions are used in these Regulations:

- | | | |
|----|----------------------|--|
| a. | EC (European Credit) | a credit with a workload of 28 hours of study; |
| b. | examination | the final examination of the Master's program; |
| c. | fraud and plagiarism | the student's acts or failures to act, which make it wholly or partially impossible to accurately judge his/her knowledge, understanding and skills; |
| d. | 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 degree program, a major or a specific curriculum within a degree program, for which the collaborating institutions are jointly responsible; |
| e. | master year | programmed year of the degree expressed in first master year, second master year and third master year; |
| f. | (program) component | a unit of study of the program within the meaning of the WHW Article 7.3; |
| g. | period | a part of a semester; |
| h. | practical exercise | the participation in a practical training or other educational learning activity aimed at acquiring certain (academic) skills. Examples of practical exercises are: <ul style="list-style-type: none"> – researching and writing a thesis; – carrying out a research assignment; – taking part in fieldwork or an excursion; – taking part in another educational learning activity aimed at acquiring specific skills; – participating in and completing a work placement. |
| i. | program | the totality and cohesion of the course components, teaching activities/methods, contact hours, testing and examination methods and recommended literature; |
| j. | thesis | a component comprising of literature research and/or a contribution to scientific research, always resulting in a written report; |
| k. | SAP / SLcM | Student Information System |

- l. study guide the guide for the degree program that provides further details of the provisions and other information specific to that program. The study guide is available electronically at <https://www.vu.nl/en/study-guide/index.aspx>
- m. workload the workload of the unit of study to which an interim examination applies expressed in terms of credits (the workload for 1 year (1,680 hours) is 60 EC);
- n. academic year the period beginning on September 1st and ending on August 31st of the following calendar year;
- o. semester the first part (September - January) or second part (February - August) of the academic year;
- p. exam 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 examination may consist of one or more partial examinations. A retake always covers the same material as the original interim examination;
- q. Admission Board the committee that assesses, on behalf of the dean, whether a candidate meets the requirements for admission to the Master's degree program of his/her choice. If there is no Admission Board appointed for the degree program, the Examination Board (within the meaning of Section 7.12 of the WHW) functions as Admission Board;
- r. university VU University, Amsterdam;
- s. VU-net the (closed) digital platform for VU students and employees;
- t. WHW the Dutch Higher Education and Research Act (Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek);

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

2 Previous education and admission

Article 2.1 Previous education

1. In order to qualify for enrollment in a Master's degree program, a Bachelor's degree obtained in academic higher education (WO) is required. The requirements that the Bachelor's degree must meet are specified in Section B.
2. In the event that a candidate does not have a Bachelor's degree as referred to in paragraph 1, the Admission Board of the degree program will assess suitability for admission to the program on the basis of the requirements stipulated in Section B.
- 2a. For the postgraduate Master program Epidemiology Article 2.1.1 and 2.1.2 do not apply. Education requirements are mentioned in Section B of the Academic and Examination Regulations.

Article 2.2 Registration and enrollment

1. The deadline for registering for the Master's program is stipulated in Section B Article 3.4.
2. After registering on time, the student must enroll before September 1st.
- 2a. For the Master program Medicine in addition to Article 2.2.2 students that register for the first year of the Master program need to register before the first of the month in which the student starts with his/her program. In subsequent years the students need to comply to Article 2.2.2.

Article 2.3 Faculty Admission Board

The dean will establish one or more Admission Boards. The dean will appoint its members after

consultation with the program directors and Examination Boards of the relevant degree programs.

Article 2.4 Admission procedure

1. The Admission Board is responsible for admission to the program.
2. With a view to admission to the program, the Admission Board assesses the candidate's knowledge, understanding and skills. The Admission Board may request experts within or outside the University to test certain types of knowledge, understanding and skills, in order to supplement written evidence of the program(s) the student has already completed. In its assessment, the Admission Board includes knowledge of the language in which the program will be taught.
3. Candidates receive either confirmation of admission or a negative decision. An appeal against a negative decision can be lodged with the Examination Appeals Board within six weeks.

Article 2.5 Refusal or termination of enrollment (unsuitability / *iudicium abeundi*)

1. Based on the provisions of Section 7.42a of the WHW, the dean or the Examination Board may, in exceptional cases, ask the Executive Board to terminate or refuse a student's enrollment in a program, if that student's actions or remarks show that he/she is unsuitable either for practicing one or more of the professions for which the program in question is preparing the student or for the practical preparation for professional practice.
2. If a student is suspected of being unsuitable as described in 2.5.1, the Examination Board or the dean will institute an inquiry, of which the student will be informed immediately. The Examination Board or the dean will not issue any recommendation without carefully considering the interests involved and giving the student the opportunity to be heard.

3 Degree program structure

Article 3.1 Structure of academic year

1. Every degree program will be offered in a year divided into two semesters.
2. Every semester consists of three consecutive periods of eight, eight and four weeks.
3. For the postgraduate program Epidemiology and the Master program Medicine, Article 1 and 2 do not apply. The schedule of the academic year is described in the program-specific section of the Academic and Examination Regulations.

Article 3.2 Organization of the program

1. The program consists of the units of study included in Section B.
2. The size of the degree program in EC is stipulated in Section B.
3. A unit of study consists of 6 EC or a multiple thereof.
4. By way of exception to paragraph 3, an educational unit may consist of 3 EC or a multiple thereof. The Executive Board needs to grant permission.
- 4a. For the following (parts of) programs Article 3.2.3 and 3.2.4 do not apply:
 - postgraduate Master program Epidemiology
 - third year of the Master degree program Medicine curriculum 2015
 - the Master degree program Medicine curriculum 2008
5. The program is made up of a compulsory part and an individual Master's thesis or academic work placement and, if applicable, a subject-specific optional component as specified in more detail in the program-specific section.
6. If the student wishes to choose a different unit of study than those stipulated in Section B as part of his/her electives, prior permission is required from the Examination Board.

4 Examinations

Article 4.1 Signing up for educational modules and examinations

1. Every student must sign up for following educational modules, when registration is necessary for participation. Every student needs to register for the exam and retakes. Registration is only open during the assigned periods. The procedure for signing up is described in the supplement of the student charter.
 - 1a. For the Master Medicine different rules apply for the signing up procedure (see Canvas).
 - 1b. For the Master Epidemiology different rules apply for the signing up procedure (see www.epidm.nl).
2. By way of exception to the provisions of paragraph 1, any student who has correctly signed up for participation in the instruction/classes for a particular course and has been admitted will also be signed up for the subsequent examination, unless the degree program stipulates a different approach.

Article 4.2 Type of examination

1. Section B stipulates the way in which a unit of study is concluded and the form any examination will take.
2. At the student's request, the Examination Board may permit a different form of 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.
3. In the case of a unit of study that is no longer offered, in the academic year following its termination at least one opportunity will be provided to sit the examination(s) or parts thereof and a transitional arrangement will be included in the program-specific section for the subsequent period.

Article 4.3 Oral examinations

1. Unless otherwise specified for the relevant unit of study in Section B, no more than one student will be examined orally at the same time.
2. An oral examination is public unless the Examination Board or examiner determines otherwise in an exceptional case. A student may submit a reasoned request to the Examination Board to depart from the public nature of the oral examination. The Examination Board will balance the interests of the student against the interests of a public examination.
3. Unless otherwise specified by the Examination Board, an oral examination will be taken in the presence of a second examiner.
 - 3a. For the Master program Medicine additional requirements are in place to Article 4.3.1, 4.3.2 and 4.3.3. These are described in Section B of the Academic and Examination Regulations.

Article 4.4 Determining and announcing results

1. The examiner determines the result (= mark) of a written examination as soon as possible, but at the latest within ten working days. Contrary to the provisions of the first sentence, the marking deadline for essays, papers and exams consisting of more than 50% of open questions is no longer than fifteen working days, while for theses and final assignments the marking deadline 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.
 - 1a. For the Master program Medicine an exception is made on Article 4.4.1 for the National Progression Test (Voortgangstoets, VGT) the results will be determined after 25 working days.
2. The examiner determines the result (= mark) of an oral examination as soon as the examination has finished and informs the student accordingly. The third sentence of the first paragraph applies.

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.
4. 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 Articles 4.8 and 4.9, as well as his/her option to appeal to the Examination Appeals Board (Cobex).
5. A student may lodge an appeal against the way in which the result was reached with the Examination Appeals Board within six weeks of the announcement of the result.

Article 4.5 Retakes

1. An opportunity will be offered to retake examinations in the degree program once in each academic year.
2. The options for retaking work placements, (components of) professional behavior or theses are detailed in the relevant work placement manual or thesis regulations.
3. The most recent mark will apply in the event of a retake. Both passing as failing grades can be retaken.
4. The retake for an examination must not take place within ten working days of the announcement of the result of the examination being retaken.
5. The students, who have successfully finished all interim examinations except one and have no opportunity for a retake before the end of the academic year can ask the Examination Board for an extra opportunity. The request needs to be motivated. This examination may have another form than stated in the exam manual. Requests need to be filed no later than the 1st of August. Excluded from this article are practical examinations including internships, literature studies, theses, and the professional behavior exam.
6. The internships, literature study, theses and professional behavior exams that have been passed cannot be retaken.

Article 4.6 Marks

1. Marks are given on a scale from 1 to 10, with a maximum of one decimal after the comma.
2. Final marks are given with 0 or 5 after the comma.
3. Final marks between 5 and 6 will be rounded to whole marks: 0,1 to 0,4 will be rounded down and 0,5 to 0,9 will be levelled up. A program component is passed at a six or higher.
4. Instead of a mark examinations can also be assessed with failed/passed (F/P) or insufficient/sufficient/good (I/S/G). A program component is passed with a passed, sufficient or good.

Article 4.7 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 program that is equivalent in both content and level or
 - 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.
2. The Examination Board will make a decision within twenty working days of receiving the written request.
3. This exemption does not apply to one or more program components. For more information see Section B.

Article 4.8 Validity period of results

1. The validity period of passed examinations and examination exemptions is specified in Section B.

2. The validity period of a an interim examination is limited to the academic year in which it was sat or until the end of the course concerned, or different as stipulated for the relevant units of study in Section B.
3. The Examination Board can extend the limited validity period of an examination or exemption if a student submits a reasoned request to that effect. The Examination Board can decide to permit the extension of the validity only after the individual making the request has successfully completed a supplementary examination on the relevant subject matter.

Article 4.9 Right to inspect

1. For at least twenty working days after the announcement of the results of a written examination, the student can, on request, inspect his/her assessed work, the questions and assignments set, as well as the standards applied for marking.
2. The Examination Board can determine that the inspection or post-examination discussion referred to in paragraph 1 takes place exclusively at a specified place and at a specified time. The place and time referred to in the previous clause will be announced at the time of the examination and on Canvas.
3. If the student was unable to attend at the place and time referred to in paragraph 2 through no fault of his/her own, an alternative option will be offered.
4. If a student intends to appeal against the way in which his/her work was assessed, he/she can be issued with a copy of the marked work at his/her request.

Article 4.10 Post-examination discussion

1. If a collective post-examination discussion has been organized, individual post-examination discussions will be held only if the student has attended the collective discussion or if he/she was unable to attend the collective discussion through no fault of his/her own.
2. Students who meet the requirements stipulated in the first paragraph can submit a request for an individual post-examination discussion to the relevant examiner. The discussion will take place at a time and location to be determined by the examiner.

Article 4.11 Master's final examination

1. The Examination Board determines the final examination result and the date on which the student obtains his/her degree after it has been established that the student has passed all the units of study belonging to the program.
2. A diploma can only be awarded after the Executive Board has declared that the student has satisfied all the procedural requirements, including the payment of tuition fees.

Article 4.12 Diplomas and transcripts

1. The Examination Board grants a diploma as proof that the student has passed his/her final examination. The Executive Board sets the model for the diploma. The Examination Board adds a diploma supplement to the diploma providing information on the nature and content of the degree program completed. The diploma supplement is drawn up in Dutch or English and complies with the European format.
2. Individuals who have successfully completed (more than) one component(s) of the program and who cannot be awarded a diploma as stipulated in paragraph 1 will, on request, receive a statement to be issued by the relevant Examination Board stating at least the components that have been successfully completed together with the units of study they involved, the number of EC obtained and the way in which the examinations were taken.
3. The student can, without needing to provide reasons, request that the Examination Board does not proceed to award a diploma, unless the student himself/herself submitted the request for its issue.

Article 4.13 Fraud and plagiarism

1. The provisions of the (VU) Rules and Guidelines for the Examination Board apply in full.
2. Electronic detection software programs may be used to detect plagiarism in texts. In submitting a text, the student implicitly consents to the text being entered into the database of the detection program concerned.

5 Study supervision and study progress

Article 5.1 Administration of study progress and academic student counselling

1. The dean is responsible for the correct registration of the students' study results in SAP/SLcM. After the assessment of an examination component has been registered, every student has the right to inspect the result of that component through VU-net.
 - 1a. For the postgraduate Master degree Epidemiology the registration takes place in CurSys
2. Enrolled students are eligible for counselling, as described in the faculty counselling document.

Article 5.2 Adaptations for students with a disability

1. A student with a disability can fill out a (digital) request form for adaptations at the educational counsellor. Students with a disability may qualify for special adaptations to the teaching provided, examinations and practicals. These adaptations will be tailored as far as possible to the individual disability of the student, but are not permitted to affect the quality or level of difficulty of a subject or examination. In all cases the student must meet the exit qualifications of the program.
2. The request referred to in paragraph 1 must be accompanied by a statement from a doctor or psychologist providing, where needed, an estimation of the possible limitation in study progression. In case of a chronic disability one request is sufficient.
3. In the case of dyslexia, no recommendation from a student counsellor is required and a statement from a BIG, NIP or NVO accredited testing center will suffice. If possible, the statement referred to in this paragraph should include an estimation of the extent to which study progress will be hindered.
4. With regard to requests for adaptations to the educational program and logistical arrangements, decisions will be made by the Faculty Board or the Director of Education acting on the Board's behalf. The Examination Board will decide on any requests for adaptations relating to the process of examination.
5. If a positive decision is made in response to a request as referred to in paragraph 1, the student will make an appointment with the study advisors to discuss how the necessary adaptations can be facilitated.
6. A request for adaptation may be declined if granting it would constitute a disproportionately large drain on the organizational resources of the faculty or university.
7. If the disability gives cause for the extension of the time for making the exam, the Examination Board will issue a statement showing the right to this extension. If a disability is reason for making other provisions, the study advisor can initiate the necessary measures.
8. For the decision in 5.2.5, a certain time period for the necessary adaptations can be determined.

6 Hardship clause

Article 6.1 Hardship clause

In instances not regulated by the Academic and Examination Regulations or in the event of demonstrable extreme unreasonableness and unfairness, the dean responsible for the degree program will decide, unless the matter concerned is the responsibility of the Examination Board.

VUMC SCHOOL OF MEDICAL SCIENCES

Academic and Examination Regulations

Master Cardiovascular Research

CROHO 66586

**B. Program-specific section
Academic year 2018-2019**

Section B Program-specific section Master Cardiovascular Research

1 General provisions

Article 1.1 Definitions

For definitions see Section A, Article 1.2.

Article 1.2 Degree program information

1. The program Cardiovascular Research (CROHO 66586) is offered on a full-time basis and the language of instruction is English.
2. The program has a workload of 120 EC.
3. A unit of study comprises of 6 EC or a multiple thereof.

Article 1.3 Intake dates

The program is offered starting in the first semester of the academic year only (September 1st).

2 Program objectives and exit qualifications

Article 2.1 Program objective

The program aims:

- a. to prepare the student to practice as an independent professional within the field of cardiovascular research.
- b. To teach the student specialized knowledge, skills and understanding in the field of cardiovascular research and to be a suitable candidate for a subsequent course of study leading to a career in research.
- c. to prepare the student for academic work in the field of cardiovascular research.

The program's objectives are as follows:

- a. Awareness of the ethical aspects of medical research;
- b. Independent academic thought processes and performance;
- c. Communicating at an academic level in the student's own language and English;
- d. Applying specialist academic knowledge in a wider and/or philosophical and social context.

The degree program focuses on the student's personal development, promotes his/her awareness of social responsibility in research and develops students' skills of expression in the English language.

Article 2.2 Competences

In all events, a graduate of the degree program will have the following attainment level:

Description of the novice researcher

The novice researcher can perform independent scientific research in the field of basic and applied/clinical cardiovascular research, but also outside the field of cardiovascular research. He has up-to-date knowledge of cardiovascular research and research methods used in this field. The novice researcher is a good organizer and is effective in a multi-disciplinary partnership to jointly achieve a high quality of research. He demonstrates professional behavior. The novice researcher promotes the development, improvement and dissemination of scientific knowledge

Role 1 Scholar

The novice researcher keeps his/her own knowledge and skills up-to-date and transfers scientific knowledge to others. He/she works independently in a professional manner in the process of drafting, implementing and evaluating areas of research. The novice researcher steers the own professional development.

1.1	The novice researcher keeps his/her own knowledge up-to-date.
1.2	The novice operates independently in the process of drafting, implementing and evaluating areas of research
1.3	The novice researcher exhibits adequate professional behavior.
1.4	The novice researcher transfers scientific knowledge.
1.5	The novice researcher steers the own professional development.
Role 2 – Collaborator	
The novice researcher participates effectively and appropriately in a multidisciplinary research team and in the inter-collegial peer review processes. He/she is able to build a network of contacts and to use them adequately.	
2.1	The novice researcher participates effectively in a multidisciplinary research team.
2.2	The novice researcher makes adequate use of networks in the research field.
2.3	The novice researcher participates in the inter-collegial peer review process.
Role 3 – Communicator	
The novice researcher gives oral and written reports of the research to colleagues in their own discipline and to other stakeholders. The novice researcher participates in scientific discussions and debates and takes a stance in such discussions and debates.	
3.1	The novice researcher provides verbal and written reports of the research to colleagues in his/her own discipline
3.2	The novice researcher participates in scientific discussions on research.
3.3	The novice researcher participates in the public debate on research.
Role 4 - Manager	
The novice researcher organizes his/her own research adequately within the applicable quality and financial frameworks, in order to achieve the set goals.	
4.1	The novice researcher knows how to organize scientific research
4.2	The novice researcher understands the financial aspects of research.
4.3	The novice researcher contributes to the quality improvement of research and of the research institute.

Article 2.3 Indecent behavior during the program

1. Master Cardiovascular Research students should, in the context of their program, behave like a good master Cardiovascular Research student befits. This applies to the program as a whole and in particular in cases where a student, in the context of his/her program, or as student Cardiovascular Research has contact with people, who are present and/or employed at the VU, VUmc or the healthcare institution wherein he/she attends part of the program. Indecent behavior in this context includes: discriminating, insulting, offensive or otherwise negative remarks, impolite expressions, violence, no or too little respect, decency or hygiene, violation of confidentiality, acting deceitfully, forgery of documents, fraud¹, deliberate deception among other things, as well as unacceptable behavior including sexual intimidation, and acting towards a third person against his/her wish. Additionally, one is referred to the Student statute 2018-2019 of the VU.
2. In case, at any time during the program, a teacher, fellow-student or someone not directly involved in the program states an action of indecent behavior by a student, the teacher, fellow-student or person not-directly involved in the program, after having informed the student in question, reports in writing and justified to the dean. A *notification of an incident of order* will be made. Subsequently, the notification will be handled in accordance with the Procedure notification of an incident of order (on Blackboard). Additionally, one is referred to the Student statute 2018-2019 of the VU.

3 Further admission requirements

Article 3.1 Admission requirements

1. Admission to the Master's program is possible for an individual, who can demonstrate that he/she has the following knowledge, understanding and skills at the Bachelor's degree level, obtained at an institution of academic higher education:
 - a. the applicant has basic knowledge of cardiovascular anatomy, physiology and pathology;
 - b. the applicant has an understanding of the cardiovascular system at the level of the entrance examination;
 - c. the applicant has tangible laboratory experience, preferably in the form of an internship in a biomedical laboratory;
 - d. average grades during the last year of the Bachelor should be 7.5 or higher in the Dutch grading system, or a foreign equivalent;
2. The Admission Board will investigate whether the interested person meets the admission requirements.
3. In addition to the requirements referred to in the first paragraph, the Admission Board will also assess requests for admission of:
 - a. candidates who have completed a degree at a University College, a double degree or an honors program, or who have other proof of having completed a Bachelor's program geared towards excellence.
 - b. students with a Bachelor degree from an institution of higher education (HBO) must have completed a program geared towards excellence and may be admitted to the program on the basis of a decision to that effect taken by the Admission Board of the Master's program. The Admission Board may make additional demands of the student before granting admission to the Master's program.
4. At the start of the program the candidate must have fully completed a Bachelor's program allowing admission to this Master's program.

Article 3.2 Pre-Master's program

The Master program Cardiovascular Research has no pre-Master's program.

Article 3.3 Limited program capacity

1. The dean will, if necessary, announce the maximum program capacity by May 1st prior to the start of the academic year.
2. Candidates will be selected in the following way:
 - a. marks obtained in the Bachelor program;
 - b. marks obtained in the entrance examination.(students with highest grades will be allowed to start the program)

Article 3.4 Final deadline for registration

An EU candidate must submit a request to be admitted to the program through Studielink before June 1st. Non-EU students and foreign student who want to use facilities like housing must submit a request to the program before April 1st.

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

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

2. Exemption is granted from the examination in English, referred to in the first paragraph, to students who, within two years of the start of the program:
- completed 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 Free curriculum

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 program.
2. The specific details of such a curriculum must be approved beforehand by the Examination Board.
3. The free curriculum is put together by the student from the units of study offered by higher education institutes (HEIs) and must at least have the extend of a regular Master's program.

4 Curriculum structure

Article 4.1 Composition of program

The program consists of the following components:

- a. Compulsory units of study
- b. Optional units of study
- c. Major/Minor Internship
- d. Literature Study

Article 4.2 Compulsory units of study

The compulsory units of study are:

Title	Code	Number of EC	Period	Teaching method	Test type	Level
Year 1						
Heart and circulation: basic principles	M_CHCBP16	6	Period 1	Lectures, workgroups, self-study	Written examination, assignments	400
Cardiac disease: Mechanisms, diagnosis and treatment	M_CCDMDT16	6	Period 1	Lectures, workgroups, self-study	Written examination, assignments	400
Diabetes and vascular disease: Mechanisms, diagnosis and treatment	M_CDVDMDT16	6	Period 2	Lectures, workgroups, self-study	Written examination, assignments	400
From personalized medicine to advanced imaging	M_CFAISC16	6	Period 2	Lectures, workgroups, self-study	Written examination,	400

Writing Scientific English	M_FWSE09	3	Period 3	Lectures, workgroups, self-study	Written examination, assignments	500
Biostatistics	M_FBIOSTAT16	3	Period 3	Lectures, workgroups, self-study	Written examination, assignments	500
Academic Core	M_CACCOREA14	0	Semester 1 and 2	Lectures, workgroups, self-study	Lectures, workgroups, self-study	500
Minor Internship	M_CMINORI15	30	Semester 2	Practical work, work discussion	Report, presentation, practical work	400
Year 2						
Academic Core	M_CACCOREB14	3	Semester 1	Lectures, workgroups, self-study and e-learning modules	Assignments	500
Literature Study	M_CLITSTU09	9	Semester 1-2	Work discussions	Report, presentation	500
Major Internship	M_CMAJORI15	36	Semester 1-2	Practical work, work discussion	Thesis, presentation, practical work	500

Article 4.3 Practical exercise

Practical exercises are described in Section B Article 4.2 of this Academic and Examination Regulations.

Article 4.4 Optional units of study

The VUmc School of Medical Sciences offers the following electives:

Title	Code	Number of EC	Period	Teaching method	Test type	Level
Biobusiness course	M_OBIOBUS10	3	3-4	Lectures, Work groups, Self-study	Assignments	500
Life Cell Imaging	M_CLIFEC09	3	3-4	Lectures, Work groups, Self-study	Assignments, Exam	500
Proteomics in Biomedical Sciences	M_CPROTBIO09	3	3-4	Lectures, Laboratory project, Literature presentation, Self-study	Exam	500
Radiation Protection Course	M_CRADPRO09	3	Academic year	Lectures, Work groups, Self-study	Exam	500

Students need to obtain permission from the Examiner for Optional Courses in advance. Students can also apply for courses at other faculties or universities, for which they need to provide the program of the course, the level, the examination and their own study plan including results thus far. The total amount of EC for the optional courses is 12 EC.

Article 4.5 Sequence of examinations

Students may participate in the examination(s) for certain units only if they have passed the examination(s) for other units:

- a. minor Internship after passing 18 EC of compulsory courses;
- b. major Internship after passing Minor Internship;
- c. literature Study after passing Minor Internship.

When the master program would like to give a student the opportunity to start earlier with a minor internship, major internship or literature thesis due to certain circumstances, the Examination Board ECRO (Epidemiology, Cardiovascular Research and Oncology) is allowed to make an exception for 4.5 a, b and c

Article 4.6 Participation in practical exercise and tutorials

1. In the case of a practical training, the student must attend 100% of the practical sessions. Should the student attend less than 100%, he/she must repeat the practical training, or the Examination Board may have one or more supplementary assignments issued.
2. In the case of tutorials with assignments, the student must attend 100% of the tutorials. Should the student attend less than 100%, he/she must repeat the study group, or the Examination Board may have one or more supplementary assignments issued.
3. In exceptional circumstances, the Examination Board may, at the request of the student, permit an exemption from this requirement if, in the opinion of the Examination 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

A maximum of 30 EC of the curriculum can be accumulated through granted exemptions by the Examination Board. This exemption does not apply to the Major Internship (Master's Thesis).

Article 4.8 Validity period for results

The validity period of examinations and exemptions from examinations is limited, as follows:

1. The period of validity of interim examinations is 3 years, as of the subsequent academic year in which the interim examination has been taken.
2. The period of validity for exemptions is 3 years, as from the year the interim examination is granted.
3. The examination board can extend the validity of an examination or exemption when the student files a motivated request. When the standardized knowledge of the examination is demonstrably outdated, or if the qualifying skills are demonstrably outdated, The Examination Board can impose a supplementary examination, impose an alternative examination or refuse the validity period.

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 Academic and Examination Regulations will be adopted by the dean after taking advice from the relevant Board of Studies. A copy of the advice will be sent to the authorized representative advisory body.
2. An amendment to the Academic 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, as well as paragraph 4 of the WHW and the requirements for admission to the Master's program.
3. An amendment to the Academic 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 Academic and Examination Regulations, the following transitional provisions apply for students who started the program under a previous set of Academic and Examination Regulations:

- a. For students registered before the academic year 2015-2016, the course codes M_MINOR09 and M_CMAJOR09 still apply. The students can vary the number of EC assigned to the modules. For the Minor Internship the number of EC is between 21 and 27 and for the Major Internship between 36 and 42 EC. In total 63 EC for both components need to be obtained.
- b. For students registered before the academic year 2015-2016, the course code M_CEXTENS09 still applies. These students can extend their Minor or Major Internship with 3 or 6 EC.
- c. For students registered before the academic year 2016-2017 the compulsory courses M_CPATHO09, M_CCLINBIO09, M_CVASCFU09, M_CREMODE09, M_CBIOSTA09, and M_FWSE09 still apply.

Article 5.3 Publication

1. The dean will ensure the appropriate publication of these Regulations and any amendments to them.
2. The Academic and Examination Regulations will be posted on VU-net and deemed to be included in the course catalogue.

Article 5.4 Effective date

These Regulations enter into force with effect on September 1st 2018.

Advice from and approved by Board of Studies: 12 December 2018

Approved by authorized representative advisory body (Facultair Overleg): 13 March 2018

Adopted by the dean: 19 June 2018