

Teaching and Examination Regulations (OER)

Master program Personalized Medicine (research)

Amsterdam UMC - location VU University Medical Center

Faculty of Medicine VU Amsterdam

Academic Year 2025-2026

A. Faculty section

B1. program specific section - general provisions

B2. program specific section - content of program

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Section A: Faculty section

1. General provisions

Article 1.1 Applicability of the regulations

1. These regulations apply to anyone enrolled in the program, irrespective of the academic year in which the student was first enrolled in the program.
2. These Regulations enter into force on 1 September 2025.
3. An amendment to the Teaching and Examination Regulations is only permitted to concern an academic year already in progress if this does not demonstrably damage the interests of students.

Article 1.2 Definitions

The following definitions are used in these Regulations:

- | | |
|--------------------------|--|
| a. academic year: | the period beginning on the 1 st of September and ending on the 31 st of August of the following calendar year; |
| b. Canvas: | Digital information system for students and teachers |
| c. Course: | a unit of study of the program within the meaning of the WHW. Art. 7.3 unit of education) |
| d. Cursys: | Student information system for master Epidemiology |
| e. EC (European Credit): | A course credit with a workload of 28 hours of study; |
| f. examination: | an assessment of the student's knowledge, understanding and skills relating to a unit of education. The assessment is expressed in terms of a final mark. An examination may consist of one or more partial examinations. A resit always covers the same material as the original examination. An examination can be completed in writing, orally or in another way; |
| g. final examination: | A Master's program consists of a Master's examination; |
| h. internship: | period spent working in professional practice as part of a study program; |
| i. period: | a part of a semester; |
| j. practical exercise: | the participation in a practical training activity 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 or dissertation○ carrying out a research assignment○ taking part in fieldwork or an excursion○ taking part in another educational learning activity aimed at acquiring specific skills, or○ participating in and completing a work placement; |
| k. program: | the totality and cohesion of the units of education, teaching activities/methods, contact hours, testing and examination methods and recommended literature; |
| l. SAP/SLM: | the student information system (<i>Student Lifecycle Management</i>); |
| m. semester: | the first (September - January) or second half (February - August) of an academic year; |
| n. student: | person studying; |
| o. student statute: | sets out the rights and responsibilities of students on the one hand, and of Vrije Universiteit Amsterdam on the other hand, including those derived from the law and those derived from university regulations. The Executive Board (CvB) officially confirms the student |

- statute once its completeness has been approved by the University Student Council (USC);
- p. study guide: the guide for the study program that provides further details of the courses, provisions and other information specific to that program. The Study Guide is available electronically at:
<https://studiegids.vu.nl/en>;
- q. study monitor: dashboard for students and academic advisors containing data pertaining to the student, including the student's study progress;
- r. thesis: a unit comprising research into the literature and/or contributing to scientific research, always resulting in a written report;
- s. unit of education: a unit of study of the program within the meaning of the WHW;
- t. university: Vrije Universiteit Amsterdam;
- u. WHW: the Dutch Higher Education and Research Act (*Wet op het Hoger Onderwijs en Wetenschappelijk Onderzoek*);
- v. workload: the workload of the unit of education to which an examination applies, expressed in terms of credits = EC credits (ECTS = European Credit and Transfer Accumulation System). The workload for 1 year (1.680 hours) is 60 EC credits.

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

2. Study program structure

Article 2.1 Structure of academic year and units of education

1. The study program will be offered in a year divided into two semesters.
2. Every semester consists of three consecutive periods. The first two periods each consist of eight weeks, and the final period consists of four weeks.
3. An educational component comprises 6 EC or a multiple thereof.
 - a. By way of exception to paragraph 3, the Executive Board may in special cases and on request of the Faculty Board, stipulate that a unit of education comprises 3 EC or a multiple thereof. These exceptions are described in section B.2.1.1 and 2.1.2 do not apply for the master Medicine. The schedule of the academic year is described in Section B.
 - b. For the postgraduate programs Epidemiology and Higher Healthcare Education (HGZO), article 2.1 does not apply. The schedule of the academic year is described in Section B.

3. Assessment and Examination

Article 3.1 Signing up for education and examinations

1. Every student must sign up to participate in the units of education of the program, the examinations and retakes. The procedure for signing up is described in an annex to the student statute.
 - a. For the Master Medicine different rules apply for the signing up procedure (see Canvas).
 - b. For the Master Epidemiology different rules apply for the signing up procedure (see www.epidm.nl).

- c. For the Master HGZO different rules apply for the signing up procedure (see <https://www.vumc.nl/educatie/onze-opleidingen/opleidingsdetail/master-docent-hoger-gezondheidszorg-onderwijs.htm>).
2. Signing up may only take place in the designated periods.

Article 3.2 Type of examination

1. At the examiner's request, the Examinations Board may allow a different form of examination than is stipulated in the study guide.

Article 3.3 Oral examinations

1. No more than one student will be examined orally at a time, unless specified otherwise in part B for the relevant unit of education.
2. A second examiner is present when an oral examination is being held, unless the Examination Board has determined otherwise. The oral examination takes place at a time and location to be determined by the examiner within the regular timetable, on campus or online. At the request of the student, and with the approval of the examiners, an audio recording can be made. Should the second examiner not be available unexpectedly, an audio recording of the oral exam can be made. This audio recording is retained by the university for the retention period applicable for examinations.

Article 3.4 Determining and announcing results

1. The examiner determines the result (= mark) of a written examination at the latest within ten working days. Contrary to the provisions of the first sentence, the marking deadline for either essays, papers or exams consisting of more than 50% of open-ended questions is no longer than fifteen working days, while for theses and final assignments the marking deadline is no longer than twenty working days after submission. 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.
 - a. For the Master program Medicine an exception is made for Article 4.4.1 for the National Progression Test (Interuniversitaire Voortgangstoets, iVGT) the results will be determined after 25 working days.
2. The examiner determines the result (i.e. mark) of an oral examination as soon as possible but at the latest within 2 working days after the examination has finished and informs the student accordingly. The third clause of the first paragraph applies.
3. In the case of assessments other than oral or written examinations, the Examination Board determines in advance how and by what deadline the student will be informed of the results.

Article 3.5 Examination opportunities

1.
 - a. Per academic year, two opportunities to take examinations will be offered for each unit of education.
 - b. By way of exceptions to 1., the options for retaking practical exercises, work placements and theses are detailed in the relevant work placement manual, course manual or teaching regulations.
2. The most recent mark will apply in the event of a resit. A retake is allowed for both passed and failed units of study.
3. The resit for an examination may not take place within ten working days of the announcement of the result for the original examination. Exceptions are only possible in period 6.
4. The Examination Board may allow a student an extra opportunity to sit an examination if that student:
 - a. lacks only those credits to qualify for their degree; and
 - b. has failed the examination during all the previously offered attempts unless participation in an examination was not possible for compelling reasons.

The extra opportunity can only be offered if it concerns a written examination, a paper or a take home examination. This provision excludes the practical exercises and the Master's thesis. Requests for an additional examination opportunity must be submitted to the Examination Board no later than 1 July. If necessary, the method of examination may deviate from the provisions in the study guide.

5. Retaking practical exercises, work placements and theses is not allowed in case a grade > 5.5 was obtained.
6. If a unit of education is no longer offered, at least one opportunity will be provided to sit the examination(s) or parts thereof and a transitional arrangement will be included in section B.

Article 3.6 Marks

1. Grades are given on a scale from 1 to 10 with no more than one figure after the decimal point.
2. A final mark between 5 and 6 will be rounded to the nearest whole number: final marks below 5.50, rounded down; final marks of 5.50 or higher, rounded up. All other final marks will be expressed in whole or half marks.
3. To pass a given course or unit, a final mark of 6 or higher is required.
4. The Examination Board can allow to use symbols rather than numbers.

Article 3.7 Exemption

1. At the written request of the student, the Examination Board may exempt the student from taking one or more examination components, if they:
 - a. have either passed a unit of education at a university or university of applied sciences (HBO) or a research university (WO) that is equivalent in terms of content and level; or
 - b. have demonstrated through their work and/or professional experience that they have sufficient knowledge and skills with regard to the relevant unit of education.
2. One or more units of education with examinations are excluded from this option of exemption, see Section B.

Article 3.8 Validity period for results

1. The validity period of examinations passed and exemption from examinations is unlimited, unless otherwise specified in Section B.

Article 3.9 Right of inspection and post-examination discussion

1. Within twenty working days after the announcement of the results of a written examination, but at least ten working days before the resit opportunity for that examination, the student can submit a request to review their graded examination.
2. Students can view the questions and assignments set in the written examination, and the standards applied when assessing the examination, within the period specified in 3.9.1.
3. The examiner determines whether the inspection takes place collectively or individually. In all cases, the time and place of the inspection is announced in the course manual or learning environment.
4. Students are entitled to feedback on their academic performance. The manner in which this is provided in each unit of education is described in the course manual.

4. Academic student counseling and study progress

Article 4.1 Administration of study progress and academic student counseling

1. The faculty board is responsible for the correct registration of the students' study results. After the assessment of a unit of education has been registered, every student has the right to inspect the result of that component and also has a list of the results achieved at their disposal in VU.nl Dashboard.
 - a. For the postgraduate Master degree Epidemiology the registration takes place in CurSys.
2. Enrolled students are eligible for academic student counseling. Academic student counselling is in any case provided by:
 - a. The Student Counsellor
 - b. Student psychologists
 - c. Faculty academic advisors

Article 4.2 Facilities for students with a disability

1. A student with a disability or impairment, can submit a request via VU.nl Dashboard to qualify for one or more special facilities with regard to teaching, practical exercises and examinations. These facilities will accommodate the student's individual disability or impairment as much as possible, but may not alter the quality or degree of difficulty of a unit of education or an examination. In all cases, the student must fulfil the exit qualifications for the study program.
2. The request referred to in the first paragraph must be accompanied by a statement by a doctor or psychologist. If possible, an estimate should be given of the potential impact on the student's study progress. In case of a chronic disability a single (one time) request suffices.
3. Students who have been diagnosed with dyslexia must provide a statement from a BIG-, NIP- or NVO-registered professional who is qualified to conduct a psychological evaluation.
4. The faculty board or the person acting on behalf of the faculty board, decides on teaching facilities and facilities regarding logistics. The Examination Board will decide on requests for facilities with regard to examinations.
5. In the event of a positive decision in response to a request as referred to in paragraph 1, the student can make an appointment with the academic advisor to discuss the details of the provisions.
6. A request for one or more facilities can be refused if it would place a disproportionate burden on the organization or the resources of the faculty or university were it upheld. Any such refusal will be substantiated.
7. If the disability or impairment justifies an extension of the examination time, the responsible person on behalf of the Examinations Board will register in SAP this entitlement to an extension. If a disability or impairment justifies other measures to be taken, the academic adviser can take the necessary measures. The student can consult the study monitor to check which facilities have been granted to them.
8. The decision as referred to in paragraph 5 may specify a limited validity of the facilities granted.

5. Hardship clause

Article 5.1 Hardship clause

1. In instances not regulated by the Teaching and Examination Regulations or in the event of demonstrable extreme unreasonableness or unfairness, the faculty board responsible for the study program will decide, unless the matter concerned is the responsibility of the Examination Board.

Section B1: Program specific section - General Provisions

6. General program information and characteristics

Article 6.0 Definitions

The following definitions are used in section B1 and B2 of these Regulations:

- a. admission board the committee that assesses on behalf of the dean whether a candidate meets the requirements to be admitted to the master's program of their choice;
- b. specialization optional route of study within a degree programme indicating a deepening of the context of the programme (e.g. interdisciplinary or multidisciplinary);
- c. track a study pathway within a broader Bachelor's or Master's degree program, such as a fully English-language study pathway within a Dutch-language Bachelor's or Master's degree;

Article 6.1 Study program information

1. The program Personalized Medicine (CROHO 66586) is offered on a full-time basis.
2. The full-time program has a nominal study duration of 2 years.

Article 6.2 Teaching formats used and modes of assessment

1. The program uses the teaching formats as described in the study guide.
2. The modes of assessment used per educational component are specified in the study guide and in Section B2 of this OER.

Article 6.3 Academic student counseling

1. The program offers the following counselling in addition to the student counseling mentioned in Section A
 - a. Program coordinator
 - b. Mentor system which is part of the Academic Core.

Article 6.4 Indecent behavior during the program

1. Master Personalized Medicine students should, in the context of their program, behave like a good Master student befits (Student Statute - article 10. VU Amsterdam Rules of Conduct). This applies to the program as a whole and in particular in cases where a student, in the context of their program, or as student Personalized Medicine has contact with people, who are present and/or employed at the VU, Amsterdam UMC or the healthcare institution wherein they attend 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, fraud, deliberate deception among other things, as well as unacceptable behavior including sexual intimidation, and acting towards a third person against their wish. Additionally, one is referred to the Student Statute 2025-2026 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, this person (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*. Additionally, one is referred to the Student Statute 2025-2026 of the VU.

7. Further admission requirements

Article 7.1 Intake date

1. The program starts on September 1.

Article 7.2 Admission requirements

1. The admission requirements will be published on the websites of the master program from the 1st of October onwards before the start of the next academic year. Admission to the Master's program is possible for an applicant who has obtained a (bio)medical, Life Sciences or related Bachelor's degree obtained at an institution of academic higher education, and meets the following requirements:
 - a. Well-developed academic skills including writing and presenting skills, the ability to evaluate and apply knowledge, and the ability to engage in critical thinking.
 - b. A clear motivation and talent for participation in the program.
 - c. Basic knowledge of Molecular Biology, Genetics, Immunology, Human Anatomy, Physiology and Pathology.
 - d. Preferably a minimum grade-point average of 7.5 (or international equivalent, e.g. a B+, or a GPA of 3.4); and a minimum grade of 8 (or international equivalent, e.g. an A, or a GPA of 4.0), for the Bachelor's thesis. If students have lower grades, they are also invited to apply for the program.
 - e. Pass the admission assessment test of the program.
2. Applicants with a Bachelor's degree obtained at an institution outside the Netherlands may be asked for additional methods to prove that they meet the admission requirements.
3. An applicant should show that they have sufficient level of proficiency in English by meeting at least one of the following standards:
 - a. IELTS Academic: an overall score of at least [6.5];
IELTS test has a validity of 2 years.
 - b. TOEFL iBT: an overall score of at least [92];
TOEFL test has a validity of 2 years.
 - c. Cambridge Certificate of Proficiency in English (CPE) or Cambridge Certificate of Advanced English (CAE) with an overall score of at least 180.
Cambridge tests are valid indefinitely.
4. Applicants who have completed one of the following meet the English language requirement and therefore are exempted from taking an English language test (as mentioned in the section 3) if:
 - a. a secondary education or higher education degree fully taught in English has been completed in Australia, Canada (except Quebec province), Ireland, New Zealand, Singapore, South Africa, the United Kingdom or the United States of America, or
 - b. a Bachelor's or Master's degree in an English-taught program accredited by NVAO in the Netherlands has been earned, or
 - c. a Bachelor's or Master's degree in an accredited fully English-taught university program has been earned in a member state of the European Union/ European Economic Area, or
 - d. a VWO diploma or equivalent diploma in which the course of English of a comparable level is required has been earned.
5. Dutch degree holders must have passed the English courses in their previous education. In case the admission board decides that the level of English proficiency is not sufficient based on the previous education and/or admission assessment test, students will be asked to provide a VU-test English-language proficiency: TOEFL-ITP certificate (> 580).

Article 7.3 Selection criteria

1. In addition to the admission requirements referred to in Article 7.2, the Faculty board also sets (at least two of) the following selection criteria:
 - a. talent and motivation for the program, demonstrated by a letter in which is stated the motivation for the program as well as a reference letter from teachers and/or supervisors;
 - b. proficiency in methods and techniques, demonstrated through a minimum grade of 8 for the bachelor thesis or similar;
 - c. level of relevant knowledge and understanding, demonstrated by passing the admission assessment test;
 - d. academic attitude and critical thinking, demonstrated through a pass for the admission assessment test;

Article 7.4 Pre-Master's program

1. The master program Personalized Medicine has no pre-Master's program.

8. Examinations and results

Article 8.1 Sequence of examinations

1. Students may participate in examinations [or practical exercises] of the units below only if they have passed the examination or examinations for the components mentioned hereinafter:
 - a. Minor Internship after passing 24 EC of compulsory courses;
 - b. Major Internship after passing the Minor Internship;
2. When the master program would like to give a student the opportunity to start earlier with a Minor Internship or Major Internship thesis due to certain circumstances, the Examination Board Science Masters is allowed to make an exception for 8.1 a and b.

Article 8.2 Validity period of results

1. The validity period of the examinations and exemptions from examinations below, is limited as follows:
 - a. The period of validity of examinations is 3 years, as of the subsequent academic year in which the examination has been taken.
 - b. The period of validity for exemptions is 3 years, as of the year the exemption for the examination is granted.
 - c. The validity period of a partial examination is 1 year, as of the subsequent academic year in which it was taken.
2. A student may request the Examination Board to extend the validity of an exam. If the student's knowledge is demonstrably outdated, or if the student's skills and understanding are demonstrably outdated, the Examination Board may impose a supplementary examination, impose a replacement examination or refuse to extend the period of validity.
3. In situations where a limited period of validity applies, the period of validity of examinations may be extended in the event of extenuating circumstances as stipulated in WHW Article 7.51, paragraph 2, with at least the period of allocated financial assistance specified in WHW Article 7.51, paragraph 1.

Section B2: Program specific section - content of program

9. Program objectives, specializations, exit qualifications and language

Article 9.1 Workload

1. The program has a workload of 120 EC.

Article 9.2 Specializations

Students that started the master Personalized Medicine before 2022-2023 will continue their program and graduate from the master Personalized Medicine in the track Cardiovascular Sciences. Students that started in 2022-2023 will continue and graduate in the master Personalized Medicine at the Vrije Universiteit. See Article 11.2 Transitional Provisions.

Students that started from 2023-2024 on will follow the master Personalized Medicine and have to choose a specialization in year 1 of the study, see article 10.1 and 10.2.

Article 9.3 Program objectives

The aim of this master program is to train and educate students with a biomedical or Life Sciences or related Bachelor's degree to obtain a Master's degree.

The final program qualifications (assessment criteria) are focused on the ability to address complex research questions and to perform independent state-of-the-art research in the field of clinical life sciences. This is a research master program; therefore the program qualifications should comply to a research standard for what we call an "early-stage researcher": a scientist at the start of a full academic career, and we therefore developed a profile with end qualifications. Within this master program, four roles for an early-stage researcher have been defined that are based on the CanMEDS (Canadian Medical Education Directions for Specialists) system, and have been adapted for research. The four roles in order of importance are "scholar", "collaborator", "communicator" and "manager". Each role has distinct performance indicators (Article 9.4, Table 1). These performance indicators are employed as the exit qualifications of this master program.

Article 9.4 Exit qualifications

1. In all events, a graduate of the degree program will have the attainment level as described in Table 1.

Table 1: Roles of the early-stage researcher.

Role 1 Scholar	
The early-stage researcher keeps their own knowledge and skills up-to-date. The early-stage researcher works independently in a professional manner in the process of drafting, implementing and evaluating areas of research. The early-stage researcher steers their own professional development.	
1.1	The early-stage researcher keeps their own knowledge up-to-date.
1.2	The early-stage researcher performs research independently.
1.3	The early-stage researcher efficiently familiarizes themselves with a new area of research.
1.4	The early-stage researcher exhibits adequate professional behavior.
1.5	The early-stage researcher is able to steer their own professional development.
Role 2 - Collaborator	
The early-stage researcher participates effectively and appropriately in a multidisciplinary research team and in the inter-collegial peer review processes. The early-stage researcher is able to build a network of contacts and to use them adequately.	
2.1	The early-stage researcher participates effectively in a multidisciplinary research team.
2.2	The early-stage researcher makes adequate use of networks in the research field.
2.3	The early-stage researcher participates in the inter-collegial peer review process.
Role 3 - Communicator	

The early-stage researcher gives oral and written reports of the research to colleagues in their own discipline and to other stakeholders. The early-stage researcher participates in scientific discussions and debates and takes a position in such discussions and debates.	
3.1	The early-stage researcher provides verbal and written reports of the research to colleagues in their own discipline and to other stakeholders.
3.2	The early-stage researcher participates in scientific discussions on research.
3.3	The early-stage researcher participates in the public debate on research.
Role 4 - Manager	
The early-stage researcher organizes their own research adequately within the applicable quality and financial frameworks, in order to achieve the set goals.	
4.1	The early-stage researcher can organize and manage scientific research.
4.2	The early-stage researcher understands the financial aspects of research.
4.3	The early-stage researcher contributes to the quality improvement of research and of the research institute.

Article 9.5 Language of instruction

1. The language of instruction is English. All components of the master program should be taught and performed in English.
2. The ‘Gedragcode vreemde taal’ (code of conduct foreign languages) applies.

10. Curriculum Structure

Article 10.1 Composition of the program

1. The program consists of the following components as shown in Figure 1:
 - a. Compulsory units of study (39 EC)
 - b. Optional units of study (12 EC) (minimum level 400, English-taught)
 - c. Minor / Major Internship (24 and 36 EC respectively)
 - d. Literature Study (9 EC)
2. Units of education are categorized as specialized (400), research oriented (500) and highly specialized (600) level.

Research Master Personalized Medicine VU Amsterdam

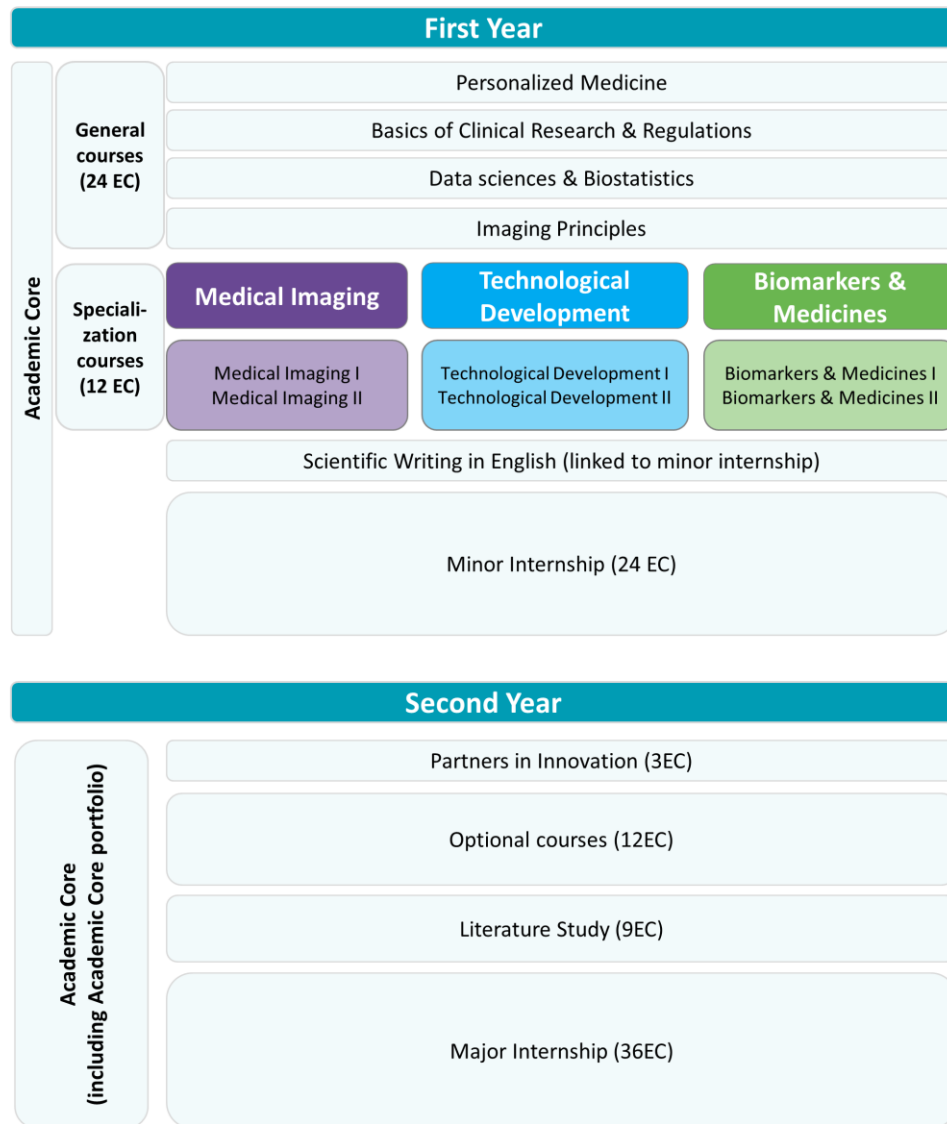


Figure 1: Composition of the master program Personalized Medicine (research).

Article 10.2 Compulsory units of education

1. The compulsory units of the program are:

Title	Code	Number of EC	Period	Teaching method	Test type	Level
Year 1						
Personalized Medicine	M_CPM22	6	Period 1	Lectures, workgroups, selfstudy	Examination, assignments	400

Basics of Clinical Research and Regulations	M_CBCRR22	6	Period 1	Lectures, workgroups, selfstudy	Examination, assignments	500
Data Science & Biostatistics	M_CDSBI23	6	Period 2	Lectures, workgroups, selfstudy	Examination, assignments	500
Imaging Principles	M_CIP22	6	Period 2	Lectures, workgroups, selfstudy	Examination, assignments	500
Scientific Writing in English	M_CWARP23	0	Semester 2	Lectures, workgroups, selfstudy	Assignments	500
Academic Core	M_CACCO123	0	Semester 1 - 2	Lectures, workgroups, selfstudy	Lectures, workgroups, selfstudy	500
Minor Internship	M_CMINORI23	24	Semester 2	Practical work, work discussion	Report, presentation, practical work	500
Specialization Medical Imaging*						
Medical Imaging I	M_CMEIM123	6	Period 3	Lectures, workgroups, selfstudy	Examination, Assignments	500
Medical Imaging II	M_CMEIM223	6	Period 4	Lectures, workgroups, selfstudy	Assignments	500
Specialization Technological Development*						
Technological Development I	M_CTD123	6	Period 3	Lectures, workgroups, selfstudy	Assignments	500
Technological Development II	M_CTD223	6	Period 4	Lectures, workgroups, selfstudy	Examination, Assignments	500
Specialization Biomarkers & Medicines*						
Biomarkers & Medicines I	M_CBMM124	6	Period 3	Lectures, workgroups, selfstudy	Assignments	500
Biomarkers & Medicines II	M_CBMM224	6	Period 4	Lectures, workgroups, selfstudy	Assignments	500
Year 2						
Partners in Innovation	M_CPIIN23	3	Period 1	Lectures, workgroups, selfstudy	Assignments	500

Academic Core	M_CACCO223	0	Semester 1 - 2	Lectures, workgroups, selfstudy	Assignments	500
Literature Study	M_CLITSTU16	9	Semester 1-2	Work discussions	Report, presentation	500
Major Internship	M_CMAJORI16	36	Semester 1-2	Practical work, work discussion	Thesis, presentation, practical work	500

**Students choose one of the different specializations*

To pass a compulsory unit, students must obtain a minimal grade of 5.50 for all test types that are part of this compulsory unit. More information about the compulsory units is described in the study guide.

Article 10.3 Elective units of education

1. The Faculty of Medicine VU Amsterdam offers the following electives:

Title	Code	Number of EC	Period	Teaching method	Test type	Level
Proteomics in Biomedical Sciences	M_CPROTBIO09	3	3-4	Lectures, Laboratory project, Literature presentation, Self-study	Exam	500
Cardiac Development	M_CCARDE18	3	Semester 1	Lectures, Work groups, Self-study Practicals	Exam	500
Next-Generation Cardiovascular Disease Models	M_CNGCDM25	3	Semester 1	Lectures, workshops, work groups, self-study	Assignments	500
Student Education Qualification (StOK)	M_FSTOK24	12	Semester 1 & 2	Lectures, practical work, workgroups, self-study	Assignments	400
Extension Internship	M_CEXINT23	3-6	Semester 2-4	Practical work, work discussion	Thesis, presentation, practical work	500

For optional courses, students need to obtain permission in advance from the Examination Board. 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 method of examination and their own study plan including results thus far. The optional courses must be taught in English. The total amount of EC for the optional courses is 12 EC.

Article 10.4 Practical exercise

1. Practical exercises are described in Section B2 Article 10.2 of this OER.

Article 10.5 Participation in practical training 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%, the student must repeat the practical training, or the Examination Board may have one or more additional 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%, the student must repeat the study group, or the Examination Board may have one or more additional assignments issued.
3. In exceptional circumstances, the Examination Board may, at the request of the student, permit an exemption (a maximum of 30 EC) from this requirement if it is evident that the intended skills have been acquired.

Article 10.6 Maximum exemption

1. A maximum of 30 EC of the curriculum can be accumulated through granted exemptions by the Examination Board. For the Major Internship (Master's Thesis), no exemptions can be granted.

11. Evaluation and transitional provisions

Article 11.1 Evaluation of the program

1. The education provided in this program is evaluated in accordance with the evaluation plan which is published on CANVAS. The faculty evaluation plan offers the framework.

Article 11.2 Transitional provisions

1. By way of derogation from the Teaching and Examination Regulations currently in force, the following transitional provisions apply for students who started the program under a previous set of Teaching and Examination Regulations:
 - a. For students registered before 2022-2023, the course codes M_CHCBP16, M_CCDMDT16, M_CDVDMDT16 and M_CFAISC16 still apply.
 - b. For students registered before 2023-2024, the course codes M_CACCOREB14, M_FBIOSTAT16, M_FWRP18, M_CMINORI16, M_CDTN22 and M_CMAJORI16 still apply.