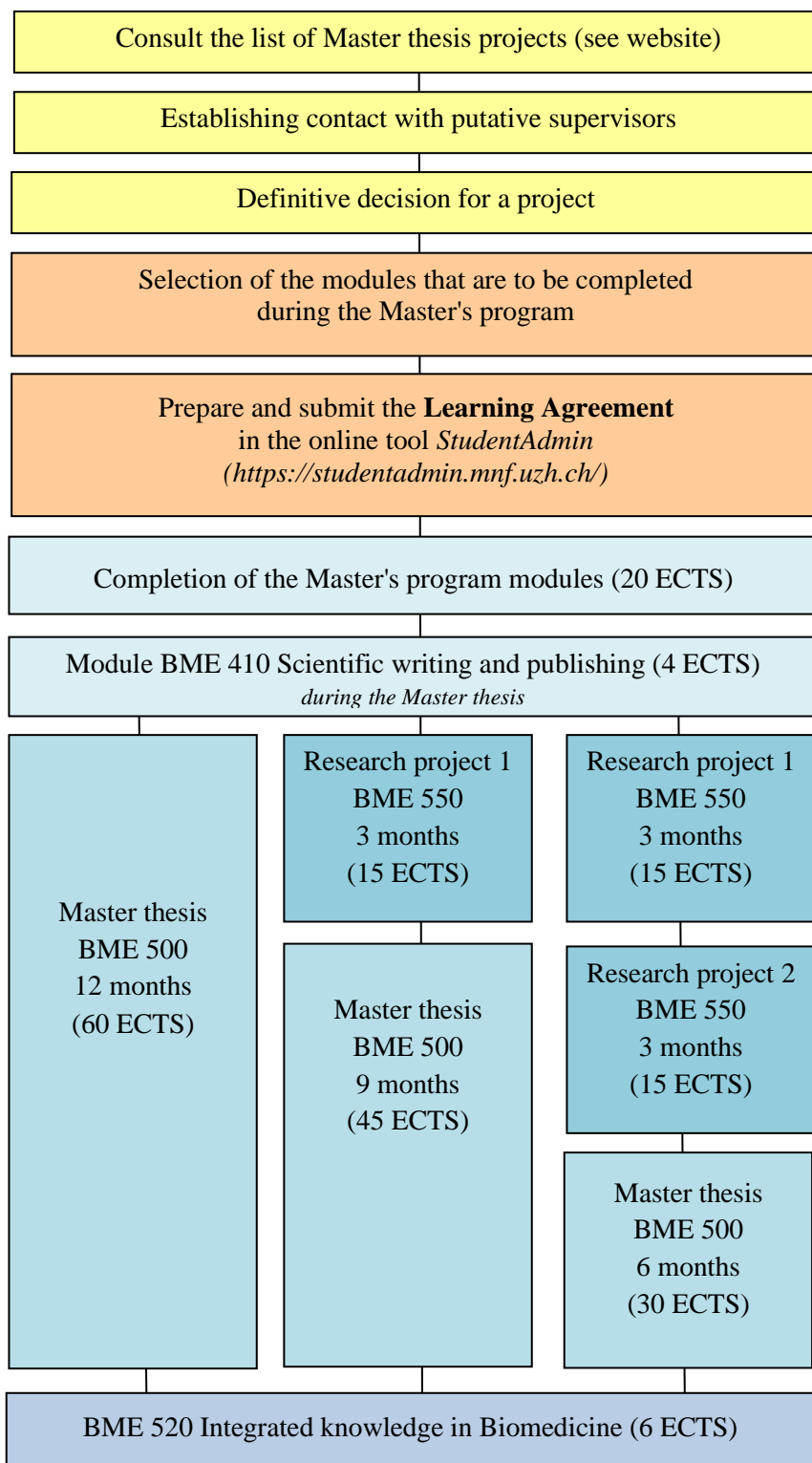




Leaflet on the Master's Program in Biomedicine

Revision. 01.02.2018/ rev. 15.03.2022

Overview of the processes





1) General information

The general conditions for the Master's program, the Master's thesis and the module BME 520 can be found in the framework regulations and the study regulations for the Bachelor's and Master's programs of the Faculty of Science. These legally binding documents are only available in German.

Completion of the Master's program modules (20 ECTS)

The modules that are attended during the Master's program must totalize at least 20 ECTS credit points. These modules must be determined at the beginning of the Master's program. 15 ECTS are selected from compulsory elective areas 2 (usually 1 block course) and 3** and from MNF (faculty of science) elective modules related to the topic of the Master's thesis (no Biology and Biomedicine basic study modules). Modules of up to 5 ECTS credit points can be selected from the entire range of courses offered by UZH and ETHZ.

** Exceptions compulsory elective area 3: the following modules are not allowed in the master:
BME247, BIO137, BIO138

The modules should be completed before the beginning of the Master thesis. The thesis supervisor and the Biomedicine Coordination Office have to give their approval if some of the mandatory modules take place during the Master thesis. The Master thesis can be interrupted by courses for maximally 7 weeks.

Research project

A research project is defined as module BME 550 and takes three months. A written report (10 - 15 pages) must be submitted within two weeks after the end of the project work. Responsibility for the management of project work can only be assumed by persons, who are listed in the course catalogue as lecturers in biology and/or biomedical studies. A research project must be announced at the time of registration for the Master's program.

Master thesis

The Master thesis in Biomedicine is defined as module BME 500.

The 12-month Master thesis is worth 60 points.

The 9-month Master thesis is worth 45 points. A 3-month project thesis (15 ECTS) must be completed before the Master thesis begins.

The 6-month Master thesis is worth 30 points. Two 3-month project work (15 ECTS each) must be completed before the Master thesis begins.

Upon completion, the Master thesis must be submitted in its definitive form at the agreed deadline at the latest. One exemplar goes to the supervisor and one exemplar plus an electronic version in PDF format go to the Biomedicine Coordination Office.

The Master thesis can only be started after completing the BSc degree. At the end of the Master thesis, all modules included in the Learning Agreement must be completed and the corresponding credit points must be achieved.

If more than 180 ECTS credit points have been acquired in the Bachelor's program, the surplus can be transferred to the Master's program upon application, provided that the corresponding courses match



thematically with the area of the Master thesis. The application is submitted using the tool 'StudentAdmin MNF'. (link under <https://www.biomedizin.uzh.ch/de/Bachelor/5und6semester.html>).

2) Organization and registration

At the beginning of the Master's program, students consult the list of Master thesis projects, contact the supervisors directly and discuss their possible Master's thesis project. The list is published at <http://www.biomedizin.uzh.ch/de/Master.html>.

After choosing a Master project, all points of the Learning Agreement are discussed with the supervisor (elective modules, project work, and oral exam BME520). BME520 is defined by the supervisor and the chosen (broad) topic should not overlap with the topic of the Master's thesis.

As soon as all points have been clarified, the Learning Agreement can be completed and submitted in the online tool 'StudentAdmin' (<https://studentadmin.mnf.uzh.ch/>).

Prof. Thierry Hennet, Institute of Physiology, Campus Irchel, Office 23 L42, Tel: 044 635 50 80, Thierry.hennet@uzh.ch, takes over the function of ombudsman, to whom both students and supervisors can address any problems that may arise in the course of the Master thesis.

The Biomedicine Coordination Office is available for administrative questions:

Coordination Office, Institute of Physiology, Irchel Campus, Office 23 L08, Tel: 044 635 50 27, master.biomedizin@physiol.uzh.ch.

3) Supervision

The Master thesis can only be supervised by a professor, titular professor, assistant professor, private lecturer or module supervisor, who is **involved in teaching (block courses) in biology and/or biomedicine at the Faculty of Science (MNF)**.

Furthermore, each Master thesis in Biomedicine is accompanied by a member of the Biomedicine Commission. The responsible member of the Biomedicine Commission assumes a coaching function, follows the progress of the work, approves the selected personal contributions in seminars and colloquia and assists in the Master's examination.

4) Master thesis topics

The Coordination Office compiles a list of the Master thesis topics offered to students (see: <http://www.biomedizin.uzh.ch/en/Master.html>).

The list contains short descriptions of the topics, information on the supervisors and host institutes, information at the time of the start and, if necessary, on special requirements. Students contact the supervisors directly and discuss their possible Master thesis project.

The list is not exclusive: New topics can be proposed by the students, provided that the Master thesis is carried out in a research group of the University of Zurich, which is involved in teaching in Biomedicine (see point 3). The form for proposals for a Master's thesis in Biomedicine (see: <http://www.biomedizin.uzh.ch/en/Master.html>) must be completed and sent by the supervisor to the Coordination Office, which forwards the proposal of the Biomedicine Commission for approval.



5) Intermediary meeting

By the middle of the Master thesis, the student, the supervisor of the Master thesis and the designated representative of the Biomedicine Commission meet for an intermediary discussion. The topics of this discussion are the accomplished course work and a brief presentation on the results collected by mid-term of the Master thesis. The student, the responsible supervisor listed on the Learning Agreement, possibly the direct supervisor and the responsible person of the 'Biomedicine Commission' (coach) are invited to this meeting.

6) Evaluation of the Master thesis

The Master thesis in Biomedicine is defined as the graded module BME 500. The grading usually consists of 60% lab work and 40% thesis and presentation of the Master's thesis (see point 7).

At the end of the Master's program, the Master's thesis must be submitted to the Biomedicine Coordination Office in printed and electronic form (PDF format). 1 copy must be handed to the supervising person in printed form (PDF format).

Requests for extension of the deadline must be addressed to the Biomedicine Coordination Office for approval by the Dean of Studies. Such requests must be submitted by the middle of the Master thesis at the latest.

7) Presentation of the master thesis

The presentation of the Master's thesis takes place on the same date as the exam of BME520 (see point 8). The presentation is open to the public, if wished by the Master's student and should last max. 20 minutes. The presentation is meant as an introduction to the BME520 oral exam.

8) Compulsory module during the Master thesis

The compulsory module BME 410 "Scientific writing and publishing" should be taken during the Master thesis and confers 4 ECTS credit points. Master students have to register for this module at master.biomedizin@physiol.uzh.ch. The registration procedure is also described in the course catalogue of the University of Zurich.

The certificate of achievement for the compulsory module BME 520 "Integrated knowledge in Biomedicine" consists of an oral exam on a subject defined on the Learning Agreement and confers 6 ECTS credit points. The student has 12 months to prepare the topic. The student searches and reads the appropriate literature on the selected topic (e.g. using PubMed). The exam date takes place 2 - 8 weeks after submission of the Master's thesis. In this examination, students demonstrate their ability to understand and explain complex scientific questions and critically discuss scientific publications in a short time. Cancellation due to illness or other compelling reasons must be made directly to the examiners (with provision of a medical certificate). The module is considered passed if at least the grade 4 has been reached. A single repetition is possible.

The oral exam of BME520 (about 30 min.) is not open to the public. The examiners are the supervisor of the Master's thesis (listed on the Learning Agreement), the representative of the Master's program (Coach) and, if available, the direct supervisor (postgraduate or doctoral student, etc.).

9) Minor subjects

Minor subjects (30 ECTS) are taken after completing the main subject (90 ECTS).