

Preliminary teaching programme for academic year 2026-27: Master's Programme in Genetics and Molecular Biosciences

Code	Course unit name	Scope (cr)	Period	Languages	Form of teaching / Method of completion	Open university studies	Open to exchange students	Open to other degree programmes	Additional information on target groups	Equivalences
GMB-005	Research project	10	1.-4. period	English	contact teaching	No	yes	no	For GMB students, available also for exchange students of GMB program	-
GMB-008	Research project in biochemistry/structural biology	10	1.-4. period	-	contact teaching	No	no	no	Compulsory for students of Biochemistry and Structural biology study track	-
GMB-019	Master's thesis seminar and Symposium	5	1.-4. period	English	contact teaching	No	no	no	1st year students, partly common seminar with other MSc programs of the faculty, also GMB. Specific teaching for 2nd year students, especially the 3 day symposium in the May (and few of meetings before that as on previous year)	-
GMB-021	Career Planning and Professional Development	5	1.-2. period	English	contact teaching	No	yes	yes	Priority given to GMB students, students from other programs and exchange students welcome if space allows	GMB-020
GMB-099	Principles of Life	10	1. period	English	contact teaching	No	no	yes	For GMB and NEU students, MOLE and or BIO BSc student close to graduation, who are planning to continue studies in GMB or NEU	GMB-001
GMB-101	Enzymes	3	3.-4. period	English	online teaching (not time-bound)	No	yes	yes	-	-
GMB-103	Advanced molecular biology techniques	5	3. period	English	contact teaching	No	yes	yes	-	-
GMB-105	Introduction to structural biology: tools for exploring biological systems	5	3. period	English	contact teaching	No	yes	yes	Priority to GMB students, mandatory in the Biochemistry and structural biology track. Suitable also to M.Sc. and Ph.D. students in biosciences and other applicable fields (mainly chemistry, physics and medicine) with prerequisite knowledge in biochemistry/protein science.	-
GMB-107	Chemical Biology	5	4. period	English	contact teaching	No	yes	yes	Priority given to the students of organizing programs, GMB and chemistry, students of other programs welcome	-
GMB-109	Laboratory Course in Molecular Biology and Biochemistry	5	2. period	English	contact teaching	No	yes	no	GMB students, primarily from the Biochemistry and Cell and Developmental Biology study tracks. If there is space, students will also be accepted from the Genetics and Genomics study track.	IPS-124
GMB-110	Structure and function of the cell	5	2. period	English	contact teaching	No	yes	yes	GMB students, primarily from the Biochemistry and Cell and Developmental Biology study tracks. If there is space, other GMB students and non-GMB students can also be accepted, in that order of priority	-
GMB-111	Basics of Bioinformatics	5	flexible online course	English	online teaching (not time-bound)	No	yes	yes	-	-
GMB-202	Essentials of gene regulation & epigenetics	5	3. period	English	contact teaching	No	yes	yes	-	-
GMB-203	RNA-seq data analysis	5	4. period	English	contact teaching	No	yes	yes	-	-
GMB-204	Population genetics and genomics	5	2. period	English	contact teaching	No	yes	yes	-	-
GMB-207	New experimental approaches in genetic and genomics	5	1. period	English	contact teaching	No	yes	yes	Priority given to GMB genetics and genomics track students	-
GMB-208	Human and cancer genetics	5	3. period	English	includes both contact and distance teaching (aka. blended teaching)	No	yes	yes	-	-

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GMB-209	Practical training in human genetics	5	4. period	English	contact teaching	No	no	no	Students on the genetics and genomics study track	-
GMB-214	Applications of genetics	5	2. period	English	contact teaching	No	yes	yes	For GMB students, available for other students if there is place.	-
GMB-215	Plant genetics and genomics	5	1.-4. period	English	online teaching (not time-bound)	No	yes	yes	-	-
GMB-217	Laboratory Course in Plant Biotechnology	5	3.-4. period	English	contact teaching	No	yes	yes	Preference given to students from GMB, and AGRI students that are completing the Plant Breeding module.	IPS-123
GMB-302	Methods in cell biology	5	2. period	English	contact teaching	No	yes	yes	GMB students, priority given to Cell and Developmental Biology study track, students from other GMB study tracks and other programs welcome if there is space	-
GMB-303	Plant Physiology for a Sustainable Future	5	1. period	English	Contact teaching	No	yes	yes	Compulsory for students in AGRI/Plant production sciences	IPS-113
GMB-304	Methods in functional genetics and development	5	3. period	English	contact teaching	No	yes	yes	Priority given to students of the GMB cell and developmental biology study track	-
GMB-305	Stem cells and organogenesis	5	3. period	English	includes both contact and distance teaching (aka. blended teaching)	No	yes	yes	Priority given to students of the GMB cell and developmental biology study track	-
GMB-307	Plant growth and development	5	2. period	English	contact teaching	No	yes	yes	-	-
GMB-331	Mechanisms of regeneration and aging	5	4. period	English	contact teaching	No	yes	yes	-	IPS-111
GMB-401	Integrative health biosciences	5	2.-3.	English	contact teaching	No	no	yes	Master students of the study track Molecular and Physiological Basis of Health (10 cr). Open to students of other GMB or NEU tracks (5 cr), or other Master's level students if there is space.	-
GMB-901	Introduction to Research Career	2	4. period	English	contact teaching	No	yes	yes	Open to all GMB students.	-
GMB-902	HILIFE Research Project	13	4. period	English	contact teaching	No	no	no	Open to first-year students only. The application procedure will take place in fall 2026. All first-year students will be informed about this separately. Selection will be based on a motivation letter, CV, and fit with the available host groups. Participation to GMB-901 is mandatory for the selected students.	-
GMB-003A	Internship period 1	5	1.-4. period	-	independent work	No	no	no	-	-
GMB-003B	Internship period 2	5	1.-4. period	-	independent work	No	no	no	-	-
GMB-014	Project work	5-15	1.-4. period	-	independent work	No	no	no	-	-
GMB-013	Teaching practice	1-5	1.-4. period	-	independent work	No	no	no	-	-
GMB-006	Book exam	5	1.-4. period	English	Moodle exam	No	no	no	-	-
GMB-007	Elective Book exam	5	1.-4. period	English	Moodle exam	No	yes	no	-	-