

Preliminary teaching programme of the degree programmes at the Faculty of Biological and Environmental Sciences

Degree programme	Code	Name of the course	Scope (cr)	Teaching period	Languages of instruction	Mode of teaching	Additional information
All degree programmes of the Faculty	VIIKB-000/ VIIKB-000B	Research Practice for Exchange Students in the Faculty of Biological and Environmental Sciences	5-60 cr	any period	English	Work placement	After agreement with a potential supervisor. -000 grading scale 0-5, -000B pass/fail.
BSc in Biology	BIO-404	Adapted animal	5 cr	3 - 4	English	Contact teaching	
BSc in Environmental Sciences	ENV-381	Topical Issues in Urban Research	5 cr	2	English	Contact teaching	
BSc in Environmental Sciences	ENV-471	Global development and environment	5 cr	3 - 4	Swedish	Blended teaching	
BSc in Molecular Biosciences	MOLE-002A	Work project 1	5 cr	any period	English	Work placement	After agreement with a potential supervisor
BSc in Molecular Biosciences	MOLE-002B	Work project 2	5 cr	any period	English	Work placement	After agreement with a potential supervisor
BSc in Molecular Biosciences	MOLE-002C	Work project	5 cr	any period	English	Work placement	After agreement with a potential supervisor
BSc in Molecular Biosciences	MOLE-702	Immunobiology book exam	3-5 cr	any period	English	Literature examination	
BSc in Molecular Biosciences	MOLE-704	Immunobiology	5 cr	4	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-001	Ecology	5 cr	1 - 2	English	Blended teaching	
MSc in Ecology and Evolutionary Biology	EEB-019	Quantitative Methods in Ecology and Evolutionary Biology	5 cr	1	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-020	Evolutionary Biology	5 cr	1 - 2	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-021	Introduction to scientific computing	2 cr	any period	English	Online teaching	self-learning, not time-bound
MSc in Ecology and Evolutionary Biology	EEB-201	Laboratory Methods in Molecular Ecology	5 cr	3	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-203	Eco-Evolutionary Dynamics	5 cr	2	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-210	Population genomic data analysis	5 cr	2	English	Blended teaching	
MSc in Ecology and Evolutionary Biology	EEB-301	Fundamentals of Conservation Biology	5 cr	1 - 2	English	Blended teaching	
MSc in Ecology and Evolutionary Biology	EEB-302	Understanding and managing conservation conflicts	5 cr	4	English	Contact teaching	
MSc in Ecology and Evolutionary Biology	EEB-309	Problem-Solving in Conservation Biology and Wildlife Management	5 cr	4	English	Blended teaching	
MSc in Ecology and Evolutionary Biology	EEB-310	Macroecology and Global Change	5 cr	4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-001	Introduction to Sustainability Science	5 cr	1	English	Blended teaching	
MSc in Environmental Change and Global Sustainability	ECGS-002	Philosophical and Methodological Foundations of Sustainability Science	5 cr	1	English	Blended teaching	
MSc in Environmental Change and Global Sustainability	ECGS-003	Practical application of sustainability science: learning project	5 cr	4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-011	Advanced aquatic and sediment biogeochemistry	5 cr	4	English	Blended teaching	
MSc in Environmental Change and Global Sustainability	ECGS-013	Restoration of lake ecosystems	5 cr	3 - 4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-014	Diagnosis of environmental problems in aquatic ecosystems	5 cr	1	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-016	Fish research	5 cr	2	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-017	Fisheries management	5 cr	3	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-020	Nutrient Loading of Aquatic Ecosystems	5 cr	1	English	Field course	Weeks 40 & 41. Note that you may miss the first lectures of other courses starting in period 1.
MSc in Environmental Change and Global Sustainability	ECGS-023	Functional Marine Ecology	5 cr	4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-024	Technology in Ecological Research and Environmental Monitoring	5 cr	1	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-026	Portfolio for future	1-5 cr	any period	English	Online teaching	Not time-bound, max 5 exchange students
MSc in Environmental Change and Global Sustainability	ECGS-034	Seminar in northern ecosystems and environment	5 cr	4	English	Seminar	On-site, max 5 exchange students

MSc in Environmental Change and Global Sustainability	ECGS-036	Arctic and human beings	5 cr	3 - 4	English	Contact teaching	Max 5 exchange students
MSc in Environmental Change and Global Sustainability	ECGS-039	Arctic climate change	5 cr	3	English	Contact teaching	Max 5 exchange students
MSc in Environmental Change and Global Sustainability	ECGS-049	Nature-based Solutions	5 cr	1	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-050	Science Communication and Thesis Writing	5 cr	2	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-068	Past environmental change	5 cr	3 - 4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-071	Advances in environmental chemistry	5 cr	2	English	Online teaching	Time-bound
MSc in Environmental Change and Global Sustainability	ECGS-073	Fate and transport of pollutants	5 cr	4	English	Online teaching	Time-bound
MSc in Environmental Change and Global Sustainability	ECGS-076	Urban ecotoxicology	5 cr	1	English	Online teaching	
MSc in Environmental Change and Global Sustainability	ECGS-078	Challenge Course	5 cr	3 - 4	English	Blended teaching	Introduction section, presentation section, groupwork in company
MSc in Environmental Change and Global Sustainability	ECGS-079	Chemicals in our society - simulations	5 cr	4	English	Blended teaching	Online teaching, group works and meetings
MSc in Environmental Change and Global Sustainability	ECGS-081	Analytical approaches to human environmental interaction	5 cr	4	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-084	Environment, technology and culture	5 cr	3 - 4	English	Online teaching	Not time-bound
MSc in Environmental Change and Global Sustainability	ECGS-201	Perspectives on sustainable consumption	5 cr	1	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-202	Sociotechnical (re)construction of consumer society	5 cr	3	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-203	Sustainability in everyday life	5 cr	2	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-204	Business in the natural environment	5 cr	1	English	Online teaching	Not time-bound
MSc in Environmental Change and Global Sustainability	ECGS-204	Business in the natural environment	5 cr	3	English	Online teaching	Not time-bound
MSc in Environmental Change and Global Sustainability	ECGS-901	Field course in Urban Environmental Ecology	5 cr	4	English	Contact teaching	Including field work
MSc in Environmental Change and Global Sustainability	ECGS-903	Urban Ecosystem Ecology	5 cr	3	English	Contact teaching	
MSc in Environmental Change and Global Sustainability	ECGS-907	Urban Biodiversity	5 cr	3	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-003A	Internship period 1	5 cr	any period	English	Work placement	After agreement with a potential supervisor
MSc in Genetics and Molecular Biosciences	GMB-003B	Internship period 2	5 cr	any period	English	Work placement	After agreement with a potential supervisor
MSc in Genetics and Molecular Biosciences	GMB-005	Research project	10 cr	any period	English	Work placement	After agreement with a potential supervisor
MSc in Genetics and Molecular Biosciences	GMB-006	Book exam	5 cr	any period	English, Swedish	Literature examination	
MSc in Genetics and Molecular Biosciences	GMB-006	Book exam	5-10 cr	any period	English	Literature examination	
MSc in Genetics and Molecular Biosciences	GMB-007	Elective Book exam	5 cr	any period	English, Swedish	Literature examination	
MSc in Genetics and Molecular Biosciences	GMB-008	Research project in biochemistry/structural biology	10 cr	any period	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-016	Participation in scientific meetings and seminars	1-3 cr	any period	English	Work placement	
MSc in Genetics and Molecular Biosciences	GMB-101	Enzymes, lectures	3 cr	any period	English	Online teaching	Not time-bound
MSc in Genetics and Molecular Biosciences	GMB-101	Enzymes, lectures and laboratory work	3-5 cr	4	English	Contact teaching	includes prior on-line course in Moodle
MSc in Genetics and Molecular Biosciences	GMB-105	Introduction to structural biology and biophysics	5 cr	2	English	Blended teaching	
MSc in Genetics and Molecular Biosciences	GMB-106	Protein Structure, Function and Folding	5 cr	4	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-107	Chemical Biology	5 cr	4	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-108	Advanced intensive course in Protein Characterization and Crystallization	3 cr	2	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-202	Essentials of gene regulation & epigenetics	5 cr	3	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-203	RNA-seq data analysis	5 cr	4	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-204	Population genetics and genomics	5 cr	2	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-207	genomics	5 cr	1	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-208	Human and cancer genetics	5 cr	3	English, Swedish	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-301	Advanced Cell Biology, lectures	3 cr	3	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-301	Advanced Cell Biology, lectures and journal club	5 cr	3	English	Contact teaching	

MSc in Genetics and Molecular Biosciences	GMB-302	Methods in cell biology	5 cr	2	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-304	Methods in functional genetics and development	5 cr	3	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-305	Stem cells and organogenesis	5 cr	3	English	Contact teaching	A letter of motivation at registration
MSc in Genetics and Molecular Biosciences	GMB-306	Seminar in cell and developmental biology	5 cr	2	English	Contact teaching	
MSc in Genetics and Molecular Biosciences	GMB-401B	Integrative Health Biosciences B	5 cr	2 - 3	English	Contact teaching	Possible only for those staying the whole year
MSc in Genetics and Molecular Biosciences	GMB-901	Introduction to Research Career	2 cr	4	English	Contact teaching	
MSc in Neuroscience	NEU-101	Cellular physiology	5 cr	1	English	Contact teaching	
MSc in Neuroscience	NEU-102	Cellular neurobiology	5 cr	1	English	Contact teaching	
MSc in Neuroscience	NEU-103	Systems Neuroscience	5 cr	2	English	Blended teaching	A letter of motivation at registration
MSc in Neuroscience	NEU-104	Integrative neurobiology	5 cr	2	English	Contact teaching	
MSc in Neuroscience	NEU-203	Systems Physiology	5 cr	2	English	Blended teaching	
MSc in Neuroscience	NEU-207	Regulatory Networks in Metabolism	5 cr	2	English	Blended teaching	
MSc in Neuroscience	NEU-231	Mechanisms of regeneration and aging	5 cr	3 - 4	English	Contact teaching	
MSc in Neuroscience	NEU-251	Molecular Nutrition	5 cr	any period	English	Blended teaching	
MSc in Neuroscience	NEU-511	Systems and Cognitive Neuroscience	5 cr	any period	English	Online teaching	Not time-bound
MSc in Neuroscience	NEU-512	Animal models in behavioural neuroscience	5 cr	3 - 4	English	Blended teaching	
MSc in Neuroscience	NEU-521	Basic mechanisms of nervous system diseases	1-5 cr	3	English	Online teaching	Time-bound
MSc in Neuroscience	NEU-531	Developmental neuroscience	5 cr	3	English	Contact teaching	
MSc in Neuroscience	NEU-541	Introduction to neurobiophysics	5 cr	3 - 4	English	Contact teaching	
MSc in Neuroscience	NEU-542	Electrophysiological techniques	5 cr	3	English	Contact teaching	
MSc in Neuroscience	NEU-543	Brain slice electrophysiology	3-5 cr	3 - 4	English	Contact teaching	
MSc in Neuroscience	NEU-551	Sensory Biology	3-5 cr	3 - 4	English	Blended teaching	
MSc in Neuroscience	NEU-603	Laboratory Animal Science Theory	2 cr	any period	English	Online teaching	Not time-bound
MSc in Neuroscience	NEU-603	Laboratory Animal Science Laboratory work	1 cr	2 & 4	English	Contact teaching	
MSc in Neuroscience	NEU-603	Laboratory Animal Science Design	2 cr	2	English	Blended teaching	
MSc in Neuroscience	NEU-604	Functional lipidomics seminar	5-10 cr	any period	English	Seminar	Seminars, report and optional presentation
MSc in Neuroscience	NEU-606	Neuroscience seminar series	2 cr	any period	English	Seminar	Seminars and report
MSc in Integrative Plant Sciences	IPS-113	Advanced Plant Physiology	5 cr	1	English	Contact teaching	
MSc in Integrative Plant Sciences	IPS-003	Design and Planning of Biological Experiments	5 cr	2	English	Contact teaching	
MSc in Integrative Plant Sciences	IPS-121	Plant Biochemistry (odd years)	5 cr	2	English	Contact teaching	
MSc in Integrative Plant Sciences	IPS-122	Plant Biotechnology and Molecular Biology	5 cr	2	English	Contact teaching	
MSc in Integrative Plant Sciences	IPS-124	Laboratory Course in Plant Molecular Biology and Biochemistry	5 cr	4	English	Contact teaching	After agreement with a potential supervisor
MSc in Integrative Plant Sciences	IPS-125	Plant Genetics and Environmental Responses	5 cr	4	English	Contact teaching	
MSc in Integrative Plant Sciences	IPS-153	Flora of Subarctic Europe (web course)	5 cr	any period	English	Online teaching	
MSc in Integrative Plant Sciences	IPS-171	Boreal Bryophytes and Lichens (web course)	5 cr	any period	English	Online teaching	
MSc in Integrative Plant Sciences	IPS-174	Temperate and Tropical Flora (web course)	5 cr	any period	English	Online teaching	
MSc in Integrative Plant Sciences	IPS-177	Fennoscandian Flora (web course)	5 cr	any period	English	Online teaching	
MSc in Integrative Plant Sciences	IPS-178	Threatened Vascular Plants of Finland (web course)	5 cr	any period	English	Online teaching	
MSc in Integrative Plant Sciences	IPS-008	Advanced Training in a Research Group	5-10 cr	any period	English	Work placement	After agreement with a potential supervisor
MSc in Integrative Plant Sciences	IPS-009	Practical Training	5-10 cr	any period	English	Work placement	After agreement with a potential supervisor
MSc in Integrative Plant Sciences	IPS-012	Plant Biology Journal Club	1-5 cr	any period	English	Blended teaching	
MSc in Integrative Plant Sciences	IPS-013	Symposia and Seminars	1-5 cr	any period	English	Blended teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-201	Microbial ecology	5 cr	3	English	Blended teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-302	Food and environmental hygiene and control	5 cr	2	English	Contact teaching	Only for exchange students majoring in microbiology, biotechnology or food science
MSc in Microbiology and Microbial Biotechnology	MMB-401	Seminar in evolution of microbial pathogenesis	5 cr	2	English	Contact teaching	

MSc in Microbiology and Microbial Biotechnology	MMB-403	Seminar in molecular microbiology	5 cr	3	English	Contact teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-504	Microbial Genetics and Evolution - lecture course	5 cr	4	English	Contact teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-505	Principles of RNA Biology	5 cr	1	English	Contact teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-601	Fungi in sustainable biotechnology on renewable nat	5 cr	4	English	Contact teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-805	Viruses lectures	5 cr	3	English	Contact teaching	
MSc in Microbiology and Microbial Biotechnology	MMB-901	Microbial Metagenomics	5 cr	2	English	Contact teaching	