

Course structure diagram 2015 - 2016

International Master's Degree Programme in Ecology and Population Genetics Master of Science Degree (MSc) in Biology 2 years, 120 ECTS credits

MSc degree specialisation is ecology or bioscience. MSc degree (120 ECTS) includes minimum 80 ECTS major studies in Ecology or Genetics. Degree does not include compulsory minor. Instead student can choose 40 ECTS optional advanced major courses, optional minors and single courses which are important for the student's personal study plan.

Specialisation Ecology and major Ecology:

ECOz = specialising in animal ecology or ECOB = specialising in plant ecology.

Specialisation Bioscience, major Genetics BTg.

	MASTER OF SCIENCE, ECOGEN, 120 ECTS	ECOLOGY ECOz ECOb	GENETICS BTg
1st autumn	Compulsory studies:	10	5
	755625S Methods in ecology I	5	
	757611S Molecular methods I	5*	5
	Optional studies:	20	25
	751673S Identification of animals (begins)	3/5	
	756642S Identification of plant species	3-4	
	756644S Plant ecology	7	
	756351A Basics in population ecology	5	
	755631S Biodiversity in human changed environments (every 2 years)	5	
	757314A Basics of Bioinformatics	5*	5
	757616S Quantitative genetics and plant and animal breeding		5
	750699S Optional examinations in environmental protection	2-6	
	750629S Kaamos symposium	2	2
	750653S Special seminar in biology	2-5	2-5
	750654S Special lecture in biology	2-5	2-5
	750613S Research training	2-14	2-14
	750661S Research group seminar	2-4	2-4
	Sum:	30	30
1st spring	Compulsory studies:	10	15
	757613S Introduction to population genetics		5
	756650S Introduction to molecular ecology	5	
	755629S Methods in ecology II	5	
	757618S DNA analysis in population genetics		10
	Optional studies:	20	15
	757618S DNA analysis in population genetics	10	

	MASTER OF SCIENCE, ECOGEN, 120 ECTS	ECOLOGY ECOz ECOb	GENETICS BTg
	756647S Conservation of biodiversity	5	
	755624S Functional animal ecology	5	
	751673S Identification of animals (ends)	2/5	
	752608S Advanced identification of plant species I	6	
	750677S Winter ecology and physiology	5	
	756648S Ecological responses to global change and air pollution in the subarctic	5-8	
	756604S Plant ecophysiology in changing environments	5-10	
	756649S Symbiosis	5	
	757620S Methods in genomics and genomics evolution		5
	757619S Advanced course in bioinformatics		5
	750613S Research training	2-14	2-14
	750661S Research group seminar	2-4	2-4
	750653S Special seminar in biology	2-5	2-5
	750654S Special lecture in biology	2-5	2-5
	750649S Examination on optional topics	2-10	2-10
	750615S Practical training	10	10
	030008P Information skills for foreign degree students	1*	1*
	Sum:	30	30
1st summer	Optional studies:		
	755621S Field course in aquatic animals	5	
	756643S Field course in ecological botany	5	
	755622S Field course in terrestrial animals	5	
	752662S Botanical collection	2-6	
	750615S Practical training	10	10
2nd autumn	Compulsory studies:	27	27
	750656S Final examination in biology	10	10
	750678S Master of science seminar (begins)	2/5	2/5
	750658S Master of science thesis in biology (begins)	15/40	15/40
	Optional studies:	3	3
	752616S Macro fungi	3	
	752625S Advanced identification of plant species II	5-8	
	757621S Experimental course in evolutionary genomics		5
	Sum:	30	30

	MASTER OF SCIENCE, ECOGEN, 120 ECTS	ECOLOGY ECOz ECOb	GENETICS BTg
2nd spring	Compulsory studies:	28	28
	750678S Master of science seminar (ends)	3/5	3/5
	750658S Master of science thesis in biology (ends)	25/40	25/40
	750632S Maturity exam	0	0
	Optional studies:	2	2
	Sum:	30	30
	Total sum of Master's degree	120	120

* Other studies (not included in the major)