

Study plan

Faculty offering the field of study:	Faculty of Biology and Environmental Protection
Field of study: <i>(title of the field of study must correspond to the</i>	environmental protection
Level of study: <i>(first cycle, second cycle, long cycle)</i>	second cycle
Degree profile: <i>(general academic, practical)</i>	general academic
Mode of study: <i>(full-time programme, part-time programme)</i>	full time programme
Specialisation:	-
Number of semesters:	120
Number of ECTS credits:	1010
Total number of teaching hours:	Master of Science

I semestr

Course code in USOS system	Module/course title	Class type ¹	Hours	ECTS credits	Assessment method ²
	Statistics and modelling in environmental sciences	Lecture	20	2	Exam
	Statistics and modelling in environmental sciences	Laboratory	20	2	Passing the assessment
	Ecological consequences of running waters regulation	Lecture	15	1	Passing the assessment
	Ecological consequences of running waters regulation	Laboratory	15	2	Passing the assessment
	Evolution	Lecture	20	3	Exam
	Evolutionary ecology	Lecture	15	1	Passing the assessment
	Evolutionary ecology	Laboratory	20	2	Passing the assessment
	Specialisation laboratory	Laboratory	45	5	Passing the assessment
	Work safety regulations and ergonomics	Laboratory	10	1	Passing the assessment
	Seminar	Seminar	30	4	Passing the assessment
	Optional courses	Lecture	45	3	Passing the assessment
	University-wide courses	Lecture	40	4	Passing the assessment
Total:			295	30	

Optional courses (You must select one of the modules):

Module	Course title	Leading classes	Hours Lecture	Hours Laboratory	ECTS credits
Module 1A	Microorganisms of extreme environments	dr hab. M. Walczak	15		1
	Environment of Baltic Sea. "Baltic University"	dr P. Napiórkowski	15		1
	Management of water resources	dr M. Czarnecka	15		1
Module 1B	Metabolic theory of plant ecology	dr Anna Wojciechowska	15		1
	Urban ecology	Prof. A. Nienartowicz	15		1
	Management of protected areas	Prof. A. Nienartowicz	15		1

Note: Limit given for a maximum of 60% of students in a given year.

¹ Each subsequent semester should be described as set out in the template for semester I.

¹ Class type in relevant courses/modules must comply with NCU rules for determining the responsibilities and duties of academic staff, the particular types of courses to be taught within such duties, including the workload for each position, and the rules for calculating teaching hours.

² Course credit, examination

II semestr

Course code in USOS system	Module/course title	Class type ³	Hours	ECTS credits	Assessment method ⁴
	Numerical methods in ecology and environmental sciences	Lecture	15	1	Passing the assessment
	Numerical methods in ecology and environmental sciences	Laboratory	15	1	Passing the assessment
	Environmental biotechnology	Lecture	15	2	Exam
	Environmental biotechnology	Laboratory	20	2	Passing the assessment
	Spatial planning	Lecture	15	1	Exam
	Spatial planning	Laboratory	15	2	Passing the assessment
	Specialisation laboratory	Laboratory	45	5	Passing the assessment
	Seminar	Seminar	30	4	Passing the assessment
	Optional courses	Lecture	40	4	Passing the assessment
	Optional courses	Laboratory	60	8	Passing the assessment
Total:			270	30	

Optional courses (You must select one of the modules):

Module	Course title	Leading classes	Hours Lecture	Hours Laboratory	ECTS credits
Module 2A	Selected problems of soil and aquatic systems restoration	dr hab. R. Wiśniewski, prof. UMK	10	15	3
	Biocultural evolution of human	dr hab. T. Kozłowski	10	15	3
	Methods of evaluation of biodiversity	Prof. dr hab. Jarosław Buszko	10	15	3
	Spatial analysis in landscape ecology	dr M. Kunz	10	15	3
Module 2B	Land reclamation and renaturalisation of the environment	dr A. Lewandowska-Czarnecka, dr hab. A. Pernik	10	15	3
	Ecology of the past antropocene	dr hab. T. Kozłowski	10	15	3
	Research methods of invertebrate fauna in land-water ecotones	dr M. Poznańska	10	15	3
	Spatial analysis in research of natural environment	dr M. Deptuła	10	15	3

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⁴ Course credit, examination

III semestr

Course code in USOS system	Module/course title	Class type ⁵	Hours	ECTS credits	Assessment method ⁶
	Environmental protection policy	Lecture	30	2	Exam
	Environmental protection policy	Laboratory	15	1	Passing the assessment
	Toxicology	Lecture	15	2	Exam
	Toxicology	Laboratory	15	1	Passing the assessment
	Toxicology of water environment	Lecture	15	1	Passing the assessment
	Toxicology of water environment	Laboratory	15	1	Passing the assessment
	Microbiology of water and sludge	Lecture	15	2	Exam
	Microbiology of water and sludge	Laboratory	20	2	Passing the assessment
	Scientific writing and publishing	Lecture	5	0,5	Passing the assessment
	Scientific writing and publishing	Laboratory	10	1,5	Passing the assessment
	Basics of individual entrepreneurship	Lecture	10	1	Passing the assessment
	Raising and accounting of funds for environmental protection research projects	Lecture	10	0,5	Passing the assessment
	Raising and accounting of funds for environmental protection research projects	Laboratory	15	1,5	Passing the assessment
	Specialisation laboratory	Laboratory	50	5	Passing the assessment
	Seminar	Seminar	30	4	Passing the assessment
	Optional courses	Lecture	35	4	Passing the assessment
	Optional courses	Laboratory	30	4	Passing the assessment
Total:			335	34	

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⁶ Course credit, examination

Optional courses (You must select one of the modules):

Module	Course title	Leading classes	Hours Lecture	Hours Laboratory	ECTS credits
Module 3A	Ecology and conservation of marine ecosystems	dr P. Napiórkowski	10	15	3
	Ecological modelling	Prof. A. Nienartowicz	10	15	3
	Plant production under stress condition	dr hab. A. Piernik	15		2
Module 3B	Ecology of microorganisms	dr hab. M. Walczak	10	15	3
	Contemporary methods of ecological groups analysis	Prof. W. Ulrich	10	15	3
	Basics in population ecology, viability analysis, and demography	Prof. W. Ulrich	15		2

Note: Limit given for a maximum of 60% of students in a given year.

IV semestr

Course code in USOS system	Module/course title	Class type ⁷	Hours	ECTS credits	Assessment method ⁸
	Ecological technologies in agriculture and forestry	Lecture	15	1	Passing the assessment
	Ecological technologies in agriculture and forestry	Laboratory	15	1	Passing the assessment
	Specialisation laboratory	Laboratory	50	5	Passing the assessment
	Seminar	Seminar	30	4	Passing the assessment
	Preparation of MSc thesis			12	Passing the assessment
	MSc exam			3	Exam
Total:			110	26	

This study programme is effective from I semester of the academic year 2015/2016.

This study programme was adopted by the Board of Faculty Biology and Environmental Protection on 5.12.2014 r.

Dean's signature

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⁸ Course credit, examination