



**Programme-specific Section of the
Curriculum for the MSc Programme in
Nature Management
(Landscape, Biodiversity and Planning)
at the Faculty of Science, University of Copenhagen
2012 (Rev. 2025)**

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1 Title and affiliation

A shared section that applies to all BSc, part-time MSc and MSc Programmes at the Faculty of Science is linked to this programme-specific curriculum.

1.1 Title

The MSc Programme in Nature Management (Landscape, Biodiversity and Planning) leads to a Master of Science (MSc) in Nature Management (Landscape, Biodiversity and Planning) with the Danish title: *Cand.scient. (candidatus/candidata scientiarum) i naturforvaltning (landskab, biodiversitet og planlægning)*.

1.2 Affiliation

The programme is affiliated with the Study Board of Geosciences and Management and the students can both elect, and be elected, to this study board.

1.3 Corps of external examiners

The following corps of external examiners is used for the central parts of the MSc Programme:

- Corps of External Examiners for Agricultural Science (*jordbrugsvidenskab*).

1.4 Language

The language of this MSc Programme is English.

2 Academic profile

2.1 Purpose

The programme aims at education graduates with competences in both scientific methods and practical management skills in the fields of nature, biodiversity, spatial planning and landscape management.

After finishing the programme graduates are capable of managing biodiversity, natural areas, ecosystems, entire landscapes, and rural districts based on integrative knowledge on natural and social sciences. Graduates are able to formula sound, balanced and sustainable solutions on management challenges related pertaining to species, ecosystems and landscapes. Graduates can manage humans as owners and users or other stakeholders of areas and formulate plans at all levels. Graduates are qualified for academic jobs within public administration, private consultancy, extension service, research, and education.

2.2 General programme profile

The programme integrates natural sciences with spatial planning, sociology and law. The graduates must act in a management and planning system targeted at species, ecosystems and cultural landscapes. The management systems comprise three components:

- i. The environment, landscapes, and ecosystems as specific physical and biological phenomena.
- ii. Humans as owners and users of these phenomena.
- iii. The regulation of the human interference with the environment as it is implemented through legislation, planning, economic incentives and communication. The graduates must have insight in the relationships between the three components, i.e. human impact on the environment, the limits and opportunities created by the environment, visions and strategies for the environment, monitoring, implementation of plans and the human impact on the regulatory system.

The concept of management employed at the programme is to define a framework for the human interference with the environment. Management is consequently understood as decisions regarding use and protection of species, ecosystems and landscapes, and the ecological, technological, legal, economic, social and planning-related frameworks for these decisions. Decisions will range in scale from individual landowners' decisions regarding land use, to international conventions, species, ecosystems, and landscapes. Landowners' and users' direct impact on the environment is denoted management in practice, whereas design, implementation and evaluation of legislation, policies and plans are denoted public management.

Ecology, restoration, conservation, human behaviour and planning are the key subject areas of the programme. The graduates have knowledge about the concepts of sustainability and are able to bridge concepts of sustainability and nature management in practice.

2.3 General structure of the programme

The MSc Programme is set at 120 ECTS.

There are no defined specialisations in this programme.

2.4 Career opportunities

The MSc Programme in Nature Management (Landscape, Biodiversity and Planning) qualifies students to become professionals within business functions and/or areas such as:

- The public sector. The public sector comprises e.g. nature and landscape management in municipalities and governmental agencies, and international bodies such as the UN and the EU.
- The private sector. The private sector comprises consultancy companies and extension service.
- Research and education institutions.
- A PhD programme
- Graduates may also be employed in practical management in landscapes, parks and other sectors with general management and project management, and planning.

3 Description of competence profiles

Students following the MSc Programme acquire the knowledge, skills and competences listed below. Students will also acquire other qualifications through elective subject elements and other study activities.

3.1 Generic competence profile

Graduates holding an MSc in Nature Management (Landscape, Biodiversity and Planning) have acquired the following regardless of the chosen specialisation:

Knowledge about:

- Biological diversity, in particular species diversity, and its organization locally, regionally, and globally.
- The functioning, dynamics and changes of natural and human influenced terrestrial and aquatic ecosystems on system, landscape and catchment scale, regionally and globally.
- Provision of ecosystems services such as clean water, carbon sequestration, biodiversity, recreation, cultural values, and maintenance of soil functioning.
- The structure, function and changes of cultural landscapes.
- The different attitudes among humans to the use and management of nature, landscapes and biodiversity and an understanding of the concepts of sustainability.

- The legal framework within which nature management operates.
- The rationale behind national, European and global initiatives to conserve and manage nature and biodiversity.

Skills in/to:

- Perform analyses of fluxes of carbon, nitrogen, phosphorus and other elements on ecosystem and landscape level.
- Perform qualitative and quantitative assessments and evaluations of nature, landscape and biodiversity status and qualities, and use of indicators, e.g. for monitoring programs.
- Use science-based knowledge to describe, manage and evaluate ecological restoration projects.
- Use relevant upto-date tools.
- Identify and designate areas for various activities, protected areas and technical installations.
- Formulate aims and guiding principles and solve conflicts for use and protection of nature, biodiversity and landscapes.
- Employ theories, principles and scientific data to individually formulated hypotheses and theories.
- Formulate aims and guiding principles for use and protection of nature, biodiversity and landscapes, and evaluate the possibilities to manage and restore populations, habitats and landscapes.
- Identify, analyse, assess and communicate present and potential natural values and landscape values at the interface between biological science and sociology, politics, planning and economics including sustainable use of nature and landscapes.
- Communicate ideas and knowledge precisely orally and written to people within and outside the scientific community.
- Choose and use suitable information and communication technology in all steps of a work process.
- Communicate opinions of different interest groups in relation to the use of nature and landscape as a framework for a number of different functions or services based on analyses of various perceptions of nature.
- Discuss human needs and interests as point of departure for spatial planning as a tool to balance general interests of the society and individual interests.
- Discuss ecological and social sustainability aspects of the relationships between man and nature including use of resources, and promote other interests than production, balancing interests among user groups.

Competences in/to:

- Work in a problem based trans-disciplinary project organisation.
- Work quantitatively with environmental impacts, nature quality and biodiversity.
- Operate in an environment of different stakeholders and cooperate and discuss with relevant stakeholders aiming to reach consensus and formulate solutions.
- Manage complex and unpredictable development scenarios within nature, biodiversity and landscape management.
- Initiate and perform individual and collective work processes.
- Work independently and goal-oriented.
- Assess and structure own learning processes.
- Continuously acquire updated knowledge by use of scientific literature within the relevant disciplines.
- Understand and interpret literature within a scientific, management and political context.

4 Admission requirements

4.1 Bachelor's degrees that automatically fulfil the academic requirements

Applicants with one of the following Bachelor's degrees or Professional Bachelor's degrees automatically fulfil the academic requirements for admission to the MSc Programme in Nature Management:

- Natural Resources (*naturressourcer*), Geography and Geoinformatics (*geografi og geoinformatik*), Biology (*biologi*) or Landscape Architecture (*landskabsarkitektur*) from University of Copenhagen.
- Forest and Landscape Engineering from University of Copenhagen
- Urban Landscape Engineering from Zealand Institute of Business and Technology.

4.2 Other Bachelor's degrees

Applicants with a Bachelor's degree, Professional Bachelor's degree or equivalent from Danish or international universities other than those listed in 4.1 are qualified for admission to the MSc Programme in Nature Management if the programme includes the following:

- Ecology – at least 7.5 ECTS.
Ecology: Scientific competences within and knowledge of the structure and function of ecosystems. Relevant academic areas including e.g. plant physiology, population and community ecology, systems ecology, soil science, and biogeochemistry.
- Species knowledge – at least 7.5 ECTS.
Species knowledge: Fundamental knowledge and competences within botany or zoology.

4.3 Other applicants

The Faculty may also admit applicants who, after an individual academic assessment, are assessed to possess educational qualifications equivalent to those required in Subclauses 4.1-3.

4.4 Language requirements

Applicants must be able to document English proficiency corresponding to one of the following:

- upper secondary school degree, bachelor's degree or master's degree in English from Australia, Canada, Ireland, New Zealand, United Kingdom or USA.
- Nordic entrance examination with an English level comparable to the Danish level B or higher
- International Baccalaureate (IB) from an international school
- European Baccalaureate (EB) from one of the approved schools
- English B or A as Single Subject Course in Denmark
- Abiturzeugnis from Germany
- IELTS test score of minimum 6.5
- TOEFL test score of minimum 83
- Cambridge Advanced English (CAE) or Cambridge English: Proficiency (CPE) passed at level C1 or C2

4.5 Supplementary subject elements

The qualifications of an applicant to the MSc programme are assessed exclusively on the basis of the qualifying Bachelor's degree. Supplementary subject elements passed between the completion of the Bachelor's programme and the admission to the MSc programme cannot be included in the overall assessment.

However, subject elements passed before the completion of the Bachelor's programme may be included in the overall assessment. This includes subject elements completed as continuing education as well as subject elements completed as part of a former higher education program. A maximum of 30 ECTS supplementary subject elements can be included in the overall assessment.

Subject elements passed before completing the Bachelor's programme which are to form part of the MSc programme to which the student has a legal right of admission (§15-courses) cannot be included in the overall assessment.

5 Prioritisation of applicants

There is no Bachelor's Programme with reserved access for this programme.

If the number of qualified applicants to the programme exceeds the number of places available, applicants will be prioritised according to the following criteria:

- Total number of ECTS in relevant courses in ecology and species knowledge
- Grade-point average achieved in qualifying degree.

6 Structure of the programme

The compulsory subject elements, restricted elective subject elements and the thesis constitute the central parts of the programme (Section 30 of the Ministerial Order on Bachelor and Master's Programmes (Candidatus) at Universities).

6.1 Programme components

The programme is set at 120 ECTS and consists of the following:

- Compulsory subject elements, 15 ECTS.
- Restricted elective subject elements, 45 ECTS
- Elective subject elements
 - 30 ECTS (thesis 30 ECTS)
 - 15 ECTS (thesis 45 ECTS)
- Thesis, 30 or 45 ECTS.

6.1.1 Compulsory subject elements

All of the following subject elements are to be covered (15 ECTS):

Course Code	Course Title	Block	ECTS
NBIK12007U	Thematic Course 1: Ecology and Management of Nature and Semi-Nature Areas	Block 1	15 ECTS

6.1.2 Restricted elective subject elements

45 ECTS are to be covered as subject elements from following three lists.

1) 15 ECTS are to be covered by one of the following subject elements:

Course Code	Course Title	Block	ECTS
LNAK10100U	Thematic Course II: Rural Landscape - Management and Planning	Block 4	15 ECTS
NIGK14057U	Temakursus IIB: Rurale landskaber - Forvaltning og Planlægning	Block 4	15 ECTS

2) 7.5 ECTS must be covered by subject elements from the following list:

Course Code	Course Title	Block	ECTS
NIFB14009U	Miljø- og planlovgivning - natur og vand (Bachelor level)	Block 2	7.5 ECTS
NIFB14005U	EU Law – Environment, Agriculture and Food (Bachelor level)	Block 3	7.5 ECTS
LNAK10072U	Global Environmental Governance	Block 3	7.5 ECTS

3) 22.5 ECTS are to be covered by subject elements from the following list:

Course Code	Course Title	Block	ECTS
NPLK14021U	Soil and Water Pollution, Concepts and Theory	Block 1	7.5 ECTS
LNAK10099U	Biodiversity in Urban Nature	Block 1	7.5 ECTS
NIGK18000U	Biodiversity in Managed Forests	Block 1	7.5 ECTS
NIFK16002U	Ethics, Environment and Society	Block 1	7.5 ECTS
NIGK13003U	Tropical Forest Restoration	Block 1	7.5 ECTS
NIGK14052U	Landscape and Restoration Ecology	Block 2	7.5 ECTS
NIGK23010U	Strategic Planning for Urban Nature	Block 2	15 ECTS
NIGK23009U	Rural Landscapes: Transformation and Governance	Block 2	7,5 ECTS
LNAK10081U	Nature Perception – Theories and Methods for Investigation	Block 2	7.5 ECTS
NBIK12003U	Conservation Biology	Block 2	7.5 ECTS
LFFK10265U	Conflict Management	Block 2	7.5 ECTS
SGBK20002U	Macro Ecology and Community Ecology	Block 2	7.5 ECTS
NIGK13007U	Ecosystem Services from Forests and Nature	Block 2	7.5 ECTS
NFYK13011U	Applied Statistics: From Data to Results	Block 2	7.5 ECTS
NIGK16000U	Applied Ecosystem Ecology	Block 3	7.5 ECTS
NIFK14029U	Motivation and Pro-Environmental Behaviour -Managing Change	Block 3	7.5 ECTS
LNAK10066U	Planlægning i det åbne land	Block 3	7.5 ECTS
NIGK14002U	Geographical Informations Systems (GIS)	Block 3	7.5 ECTS
NIGK17000U	Land Use and Environmental Modelling	Block 3	7.5 ECTS
NIGK23008U	People, Nature and Recreation	Block 3	7.5 ECTS
NFYK13000U	Climate Change Mechanisms and Tipping Points	Block 3	7.5 ECTS
SGBK20011U	International Nature Conservation	Block 3	7.5 ECTS
NDAK16003U	Introduction to Data Science (IDS)	Block 3	7.5 ECTS
NIGK15002U	Aerial and Near-Field Remote Sensing	Block 3	7.5 ECTS
NIGK17018U	Feltkursus i naturforvaltning	Block 5	7,5 ECTS

6.1.3 Elective subject elements

15 ECTS (thesis, 45 ECTS) or 30 ECTS (thesis, 30 ECTS) are to be covered as elective subject elements.

- All subject elements at MSc level may be included as elective subject elements in the MSc Programme.
- BSc subject elements corresponding to 7.5 ECTS may be included in the MSc Programme.
- All courses at GLOBE Institute SUND, affiliated with a SCIENCE Study Board, are preapproved as elective courses.
- Projects. See 6.1.4 Projects.

6.1.4 Projects

Projects outside the course scope (PUK), projects in practice (PIP) and thesis preparation projects (PREP) may not exceed 45 ECTS of the programme.

- PUK may be included in the elective section of the programme by up to 15 ECTS. The primary supervisor must be employed at either SCIENCE or GLOBE Institute SUND. The regulations are described in Appendix 5 to the shared section of the curriculum.
- PIP may be included in the elective section of the programme by up to 15 ECTS. The primary supervisor must be employed at SCIENCE. The regulations are described in Appendix 4 to the shared section of the curriculum.
- PREP may be included in the elective section of the programme with up to 15 ECTS. The primary supervisor must be employed at either SCIENCE or GLOBE Institute SUND. The regulations are described in Appendix 6 to the shared section of the curriculum.

6.1.5 Thesis

The MSc Programme in Nature Management (Landscape, Biodiversity and Planning) includes a thesis corresponding to 30 or 45 ECTS as described in Appendix 2 to the shared curriculum. The thesis must be written full time and the topic of the thesis must be within the academic scope of the programme.

The primary supervisor must be employed at either SCIENCE or GLOBE Institute SUND.

6.1.6 Academic mobility

The curriculum makes it possible to follow subject elements outside the Faculty of Science.

The academic mobility for the MSc Programme in Nature Management (Landscape, Biodiversity and Planning) with a thesis corresponding to 30 ECTS is placed in block 1+2 of the 2nd year.

Academic mobility requires that the student follows the rules and regulations regarding pre-approval and credit transfer.

In addition, the student has the possibility to arrange similar academic mobility in other parts of the programme.

7 Exemptions

In exceptional circumstances, the study board may grant exemptions from the rules in the curriculum specified solely by the Faculty of Science.

8 Commencement etc.

8.1 Validity

This subject specific section of the curriculum applies to all students enrolled in the programme – see however Appendix 2.

8.2 Transfer

Students enrolled on previous curricula may be transferred to the new one as per the applicable transfer regulations or according to an individual credit transfer by the study board.

8.3 Amendment

The curriculum may be amended once a year so that any changes come into effect at the beginning of the academic year. Amendments must be proposed by the study board and approved by the Dean.

Notification about amendments that tighten the admission requirements for the programme will be published online at www.science.ku.dk one year before they come into effect.

If amendments are made to this curriculum, an interim arrangement may be added if necessary to allow students to complete their MSc Programme according to the amended curriculum.

Appendix 1 The recommended academic progression

The table illustrates the recommended academic progression. The student is allowed to plan an alternative progression within the applicable rules.

Table – MSc Programme in Nature Management (Landscape, Biodiversity and Planning) (thesis 30 ECTS)

Period	Block 1	Block 2	Block 3	Block 4
1st year	Thematic course I: Ecology and Management of Nature and Semi-Nature Areas	Restricted elective	Restricted elective	Restricted elective
		Restricted elective	Restricted elective	
2nd year	Elective	Elective	Thesis	
	Elective	Elective		

Table – MSc Programme in Nature Management (Landscape, Biodiversity and Planning) (thesis 45 ECTS)

thesis is ECTS)				
Period	Block 1	Block 2	Block 3	Block 4
1st year	Thematic course I: Ecology and Management of Nature and Semi-Nature Areas	Restricted elective	Restricted elective	Restricted elective
		Restricted elective	Restricted elective	
2nd year	Elective	Thesis		
	Elective			

Appendix 2 Interim arrangements

The Shared Section that applies to all BSc, part-time MSc and MSc Programmes at the Faculty of Science applies to all students.

The interim arrangements below only consist of parts where the current curriculum differs from the rules and regulations that were previously valid. Therefore, if information about relevant rules and regulations are missing, it can be found in the curriculum above.

1 General changes for students admitted in the academic year 2022/23 or 2021/22

Students admitted to the MSc Programme in the academic year 2022/23 or 2021/22 must finish the programme as listed in the curriculum above with the following exceptions.

Restricted elective subject elements

45 ECTS are to be covered as subject elements from the following three lists.

1) 15 ECTS are to be covered by one of the following subject elements:

Restricted elective subject elements offered as part of list 1 in this curriculum (see above)

2) 7.5 ECTS must be covered by subject elements from the following list:

Restricted elective subject elements offered as part of list 2 in this curriculum (see above)

3) 22.5 ECTS are to be covered by subject elements from the following list:

Restricted elective subject elements offered as part of list 3 in this curriculum (see above)			
LNAK10073U	Rural Landscapes: Methods and Approaches in Policy Making	Discontinued*	7.5 ECTS
NIGK14010U	Outdoor Recreation: Planning and Management	Discontinued*	7.5 ECTS

*See discontinued courses below.

2 Discontinued courses

Course Code	Course Title	ECTS	Interim arrangement
NIGK14010U	Outdoor Recreation: Planning and Management	7.5	The course was restricted elective in the academic year 2022/23 and 2021/22. The course was offered for the last time in the academic year 2022/23. Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.
LNAK10073U	Rural Landscapes: Methods and Approaches in Policy Making	7.5	The course was restricted elective in the academic year 2022/23 and 2021/22. The course was offered for the last time in the academic year 2022/23. Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2023/24.

Appendix 3 Description of objectives for the thesis

After completing the thesis, the student should have:

Knowledge about:

- Scientific problems in relation to the thesis subject area.
- Theories and models supporting the thesis subject area.

Skills in/to:

- Identify scientific problems within the study programme's subject areas.
- Summarise a suitable combination of methodologies/theories based on international research for use in his/her work with the problem formulation.
- Discuss theories/models on the basis of an organised value system and with a high degree of independence.
- Apply and critically evaluate theories/methodologies, including their applicability and limitations.
- Assess the extent to which the production and interpretation of findings/material depend on the theory/methodology chosen and the delimitation chosen.
- Discuss academic issues arising from the thesis.
- Draw conclusions in a clear and academic manner in relation to the problem formulation and, more generally, considering the topic and the subject area.
- Discuss and communicate the academic and social significance, if any, of the thesis based on ethical principles.

If the thesis includes experimental content/own data production, the student will also be able to:

- Substantiate the idea of conducting experimental work/producing own data in order to shed light on the topic as formulated in the problem formulation.
- Process data through a choice of academic analysis methods and present findings objectively and in a concise manner.
- Assess the credibility of own findings based on relevant data processing.

Competences in/to:

- Initiating and performing academic work in a research context.
- Solving complex problems and carrying out development assignments in a work context.