



# Programme-specific Section of the Curriculum for the MSc Programme in Sustainable Forest and Nature Management at the Faculty of Science, University of Copenhagen 2010 (Rev. 2024)

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## 1 Title, affiliation and language

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

### 1.1 Title

The MSc programme in Sustainable Forest and Nature Management SUFONAMA leads to a double degree awarded with two of the following titles depending on choice of mobility-track:

- University of Copenhagen: Master of Science (MSc) in Forest, Ecosystems, Nature and Society with the Danish title: *Cand. scient. i bæredygtig skov- og naturforvaltning*.
- Bangor University: Master of Science (MSc) in Sustainable Forest and Nature Management.
- University of Göttingen: Master of Science (MSc) in Sustainable Forest and Nature Management.
- Swedish Agricultural University: Master of Science (MSc) in Forestry (120 credits) with a major in Forest Management/Masterexamen med huvudområdet skogshushållning.
- University of Padova: Master of Science (MSc) in Forest Science.

### 1.2 Affiliation

The programme is affiliated with the Study Board of Natural Resources, Environment and Animal Science, 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 main objective of the programme is to educate graduates qualified for coping with the huge challenges in contemporary forest and nature management in countries where the forest-nature paradigm has shifted in recent years. The aim is to provide the graduates with a firm theoretical foundation and understanding of the new paradigm in forest and nature management, including the social and environmental contexts, ability to apply theory and to implement and sustain an integrated management of forest and nature areas, and intercultural competences to function professionally in a complex international context of conflicting aims and interests. During their studies, the students are extensively exposed to realities of the sustainable forest and nature management – both during the elective Joint Summer Module in one of the consortium countries and in relation to thesis work.

### 2.2 General programme profile

The programme evolves around finding the balance between the sustainability of organic systems and human requirements. The programme is based on three areas: 1) Knowledge and understanding of the function, the productive opportunities and the ecological sustainability of biological systems; 2) knowledge of economics, financial management and optimization as well as methodologies for planning and considering interests; 3) knowledge of, tools and skills for handling ‘the human dimension’ – general management, project management, negotiation and conflict management. Knowledge within these three areas will enable the graduate to develop professionally sound solutions that can be put into action in a complex world of conflicting aims and interests.

The programme is characterised by strategic work with a long-time perspective. The long-time perspective is necessary for utilization of forests and natural areas. At the same time, the utilization

must be socially acceptable and in line with developments in society. Because of the long-time perspective, sustainability naturally becomes a general and controlling concept. Through the compulsory courses, the graduate gains an insight into a number of general tools to help do this and applies these in connection with case studies on forest and natural resources. These aspects and tools are equally relevant to strategic management within private companies in other lines of business.

Sustainable Forest and Nature Management is the key subject area of the programme.

### **2.3 General structure of the programme**

The MSc Programme is set at 120 ECTS.

The first year of study must take place at University of Copenhagen followed by a compulsory year of study at one of four partner institutions.

The MSc Programme in Sustainable Forest and Nature Management consists of the following elements:

- Basic course package, 60 ECTS, completed at University of Copenhagen.
- Specialisation, 60 ECTS, including the thesis.

The student must choose one of the following specialisations for their second year of study:

- Specialisation: Conservation Biology and Land Management (Bangor University)
- Specialisation: Forest and Nature Management in a Changing Climate (University of Göttingen)
- Specialisation: Sustainable Forestry in the Boreal and Temperate Zones of Northern Europe (SLU Alnarp)
- Specialisation: Sustainable Forest and Land Protection (University of Padova)

### **2.4 Career opportunities**

Students completing the MSc Programme in Sustainable Forest and Nature Management will be well prepared to either pursue a career in research by taking a PhD or by applying for a job in the private or public sector, e.g. ministry, government or county agency, district forest and nature office, forest and nature association, consultancy, NGO, ENGO, or international organisation. The programme provides students with a number of central control and management tools and a broad range of economic, ecological and social competences. This forms a good foundation for a possible management career in the private or public sector. The programme is typically aimed at positions as academic employees or as managers in private, commercial companies, in national or international organisations relating to the utilisation of forests and other natural resources, or in a public authority office/agency/company working with area management.

## **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 (University of Copenhagen)**

Graduates holding an MSc in Sustainable Forest and Nature Management have acquired the following:

#### Knowledge to:

- Describe the structure, development and variation of ecosystems as well as understand the causes and effects in a scientific perspective.

- Identify possibilities/limitations and the ecological tolerance in relation to people's utilisation of forests and nature.
- Understand interactions between physical and biological environments of forests and nature areas.
- Understand the implications of climate change on social and environmental systems related to forest and nature areas.
- Summarise economic and policy theory and demonstrate general knowledge of the planning tools applied in the economic management of forests and nature.
- Reflect on the concept of sustainable forest and nature management.
- Reflect on the societal and commercial consequences of legislation, regulations and principles of operation in national and international contexts.
- Explain key theories and methodologies for management, planning, negotiation and conflict management on the basis of the opinions, interests and values of people.

#### Skills in/to:

- Develop, quantify and apply theoretical and practical models for the productive functions of forests and natural resources – material as well as immaterial.
- Apply economic theory and utilise planning tools to analyse and model the welfare and business economic value production of forests and natural resources.
- Assess the possibilities and limitations of theories and methodologies.
- Develop long-term strategies, operational targets and concrete plans for sustainable utilisation and protection of forests and other green resources while bearing in mind social, ecological and economic objectives and limitations.
- Practise economic, dynamic and holistic management planning.
- Formulate, plan and implement projects.
- Incorporate negotiation and conflict resolution strategies and models in the role as manager, consultant or facilitator.
- Communicate professional problems and solutions – both orally and in writing – to different target groups.

#### Competences in/to:

- Turn demands on our natural surroundings into concrete actions and projects based on a natural science foundation.
- Transfer theories and principles to new situations and assume independent and professional responsibility.
- Manage operations and development tasks in the framework set out by society (legislation, regulations, realities).
- Display the competence, key skills, behaviour and attitudes required in a professional working life.
- Design decision-making, negotiation and collaboration processes that bear in mind the power and interests of the players. Lead and manage such processes based on knowledge of the interactions in relation to negotiation and conflict.
- Collaborate constructively with others in interdisciplinary and intercultural contexts.
- Independently evaluate and structure own learning processes and assume responsibility for own professional development with a view to life-long learning.
- Appropriate use of standard analyses to address sustainable forest and nature management problems.
- Participate in academic discussions of issues related to sustainable forest and nature management.
- Display the competences, key skills, behaviour and attitudes required in an interdisciplinary and intercultural professional working life.

- Communicate clearly, concisely and confidently in spoken and written formats with both academic audiences and in public discussions with non-specialists.

### **3.2 Specialisation: Conservation Biology and Land Management (Bangor University).**

Graduates holding an MSc in Sustainable Forest and Nature Management with a specialisation in Conservation Biology and Land Management have acquired the following:

#### Knowledge about:

- The principles of economic, social and environmental principles that underpin conservation and land management and the ability to synthesis this knowledge for sustainable use of countryside.
- The relationship between components of land use systems with particular emphasis on the impact of/on farming enterprises and their relationship to policy Frameworks.
- The nature of scientific investigation and the application of results into practice to help environmental conservation professionals with their work.
- Systems theory and the integration of knowledge across disciplines in conservation and natural resource management.
- The theory and practical challenges of conservation biology.
- The concept of evidence-based conservation which concerns the interface between conservation science, policy and practice.
- The resources required for conservation and land management and the effective utilisation of those resources within practical and legislative frameworks.
- Explain systems theory and the integration of knowledge across disciplines in conservation and natural resource management.
- Summarise the theory and practical challenges of conservation biology.
- Understand the concept of evidence-based conservation, which concerns the interface between conservation science, policy and practice.

#### Skills in/to:

- Formulate a hypothesis, plan and execute research or development work, evaluate the outcomes and draw valid conclusions.
- Transfer biological principles that underpin conservation and sustainable management of the countryside into practical guidelines.
- Apply subject knowledge and understanding to address familiar and unfamiliar problems.
- Analyse, synthesise and assimilate diverse information in a critical manner.
- Set quantifiable objectives for site based conservation within a management plan for protected sites using Conservation Management Systems methodology.
- Construct reasoned arguments to support a position on the implications and the potential impacts of scientific advances and appreciate the validity of different points of view.
- Communicate about a subject matter clearly, confidently and with accuracy
- Demonstrate a capacity for critical analysis and enterprise.
- Record, collate, analyse and report data collected in the laboratory or field.
- Access and interpret primary and secondary sources of information.
- Identify, formulate and operationalize interventions that are relevant to environmental resources and sustainable forest and nature management in particular locations.

#### Competences in/to:

- Work both independently and in collaboration with others.
- Take responsibility for self-managed learning and personal/professional development.
- Undertake field and/or laboratory investigations in a responsible, safe and ethical manner.
- Translate information into instructions that can be given to others at an appropriate level.
- Write management plans for conservation projects to meet defined objectives.
- Construct scenarios of possible futures and consider their importance in current management.

### **3.3 Specialisation: Forest and Nature Management in a Changing Climate (University of Göttingen)**

Graduates holding an MSc in Sustainable Forest and Nature Management with a specialisation in Forest and Nature Management in Changing Climate have acquired the following:

#### Knowledge about:

- Contexts of the global climate system and scientific basis of climate and climate change and their application to nature management systems.
- The appropriate use of management systems in nature management and their adaptation to different climate change scenarios.
- The effects of climate change on forest and forest health and feedbacks with provision of multiple ecosystem services.
- Scientific methods and tools for monitoring and management of multiple goals in the temperate forests and the transfer into the global context.

#### Skills in/to:

- Research planning, data collection and using a range of field methods, simulation tools and data analysis techniques.
- Critically identify sustainability issues in relation to climate change and forest and nature management.
- Construct reasoned arguments to support a position on the implications and the potential impacts of scientific advances and appreciate the validity of different points of view.
- Communicate about a subject matter clearly, confidently and with accuracy.
- Demonstrate a capacity for critical analysis and enterprise.
- Record, collate, analyse and report data collected in the laboratory or field.
- Access and interpret primary and secondary sources of information.
- Compare and analyse differences in forestry practices between the countries, against the background of similar natural settings for forestry but diversity of social norms, management traditions, approaches to policy-making etc.

#### Competences in/to:

- Work both independently and in collaboration with others.
- Plan and implement forest and nature management interventions in a professional capacity in private sector companies, government bodies, non-governmental organisations, research institutions, or development agencies.
- Display independence and integrity, as well as awareness of ethical and moral questions related to forestry, agriculture and ecology and take these into account when working in different cultural settings.
- Continuously acquire new skills and knowledge when working in complex field settings as well as in interdisciplinary teams in intercultural environments.
- Take responsibility for self-managed learning and personal/professional development.
- Translate information into instructions that can be given to others at an appropriate level.
- Construct scenarios of possible futures and consider their importance in current management.

### **3.4 Specialisation: Sustainable Forestry in the Boreal and Temperate Zones of Northern Europe (SLU Alnarp)**

Graduates holding an MSc in Sustainable Forest and Nature Management with a specialisation in the Boreal and Temperate Zones of Northern Europe have acquired the following:

#### Knowledge about:

- Key aspects of contemporary economic oriented forestry in the boreal and temperate zones of Northern Europe, objectives, strategies and organisations.
- Influence on how forestry is affected by the ownership structure.

- Dependency between socioeconomic settings and values of non-timber products and other ecosystem services.
- Strategies for conservation and enhancement of nature values in economic oriented forestry.
- In-depth understanding of global forests and land-use dynamics.
- Processes behind the development of national and international forest policies.

#### Skills in/to:

- Formulate a hypothesis, plan and execute research or development work, evaluate the outcomes and draw valid conclusions in relation to Scandinavian and Eastern European forestry.
- Ability to compare and analyse differences in forestry practices between the countries, against the background of similar natural settings for forestry but diversity of social norms, management traditions, approaches to policy-making, etc.
- Transfer scientific research on silvicultural measures into practical forestry and evaluate the effects of actions.
- Apply subject knowledge and understanding to address familiar and unfamiliar problems.
- Analyse, synthesise and assimilate diverse information in a critical manner.
- Construct reasoned arguments to support a position on the implications and the potential impacts of scientific advances and appreciate the validity of different points of view.
- Communicate about a subject matter clearly, confidently and with accuracy.
- Synthesize and building a holistic view.
- Demonstrate a capacity for critical analysis and enterprise.
- Record, collate, analyse and report data collected in the laboratory or field.
- Use GIT (Geographical Information Technology) to present results from different assignments.
- Access and interpret primary and secondary sources of information.
- Compare and analyse differences in forestry practices between the countries, against the background of similar natural settings for forestry but diversity of social norms, management traditions, approaches to policy-making etc.

#### Competences in/to:

- Work both independently and in collaboration with others.
- Take responsibility for self-managed learning and personal/professional development
- Undertake field and/or laboratory investigations in a responsible, safe and ethical manner.
- Translate information into instructions that can be given to others at an appropriate level.
- Write management plans to meet defined objectives.
- Construct scenarios of possible futures and consider their importance in current management.

### **3.5 Specialisation: Sustainable Forest and Land Protection (University of Padova)**

Graduates holding an MSc in Sustainable Forest and Nature Management with a specialisation in Mountain Forestry and Watershed Management in Mountain Areas have acquired the following:

#### Knowledge about:

- Structure, dynamic, management and logging of mountain forests, multifunctional role of responsible management of forests according to the European institutional setting.
- Appropriate use of standard economic analyses to address sustainable forest and nature management considering wood and non-wood forest products, environmental and social services.
- Natural river morphology and mountain catchments restoration including actions for a low-impact management of sediment dynamics and for a sustainable mitigation of floods and hillslope instabilities.
- Market-based instruments for valuing ecosystem services in forested watersheds.

### Skills in/to:

- Formulate a hypothesis, plan and execute research or development work, evaluate the outcomes and draw valid conclusions in relation to sustainable forest and land protection.
- Critically identify sustainability issues in relation to watershed management in forested areas.
- Ability to analyse, compare and evaluate different effects of forestry practices and watershed management actions from a silvicultural, engineering, economic and management perspective.
- Transfer scientific research on silvicultural measures into practical forestry and evaluate the effects of actions.
- Apply subject knowledge and understanding to address familiar and unfamiliar problems.
- Analyse, synthesise and assimilate diverse information in a critical manner.
- Construct reasoned arguments to support a position on the implications and the potential impacts of scientific advances and appreciate the validity of different points of view.
- Communicate about a subject matter clearly, confidently and with accuracy.
- Synthesize and building a holistic view.
- Demonstrate a capacity for critical analysis and enterprise.
- Record, collate, analyse and report data collected in the laboratory or field.
- Access and interpret primary and secondary sources of information.
- Compare and analyse differences in forestry practices between the countries, against the background of similar natural settings for forestry but diversity of social norms, management traditions, approaches to policy-making etc.

### Competences in/to:

- Work both independently and in collaboration with others Take responsibility for self-managed learning and personal/professional development Undertake field and/or laboratory investigations in a responsible, safe and ethical manner.
- Understand the role of forests and nature to owners and society (in a wide context), and evaluate options for improving the role through sustainable forest and nature management.
- Plan and implement forest and nature management interventions in a professional capacity in private sector companies, government bodies, non-governmental organisations, research institutions, or development agencies.
- Display independence and integrity, as well as awareness of ethical and moral questions related to agriculture and ecology and take these into account when working in different cultural settings.
- Prepare and appraise forested watersheds and nature management plans / projects to meet the objectives of stakeholders.
- Translate information into instructions that can be given to others at an appropriate level.
- Construct scenarios of possible futures and consider their importance in current management.

## **4 Admission requirements**

In compliance with Ministerial Order on the International Education Activities of Universities (No 247 of 13 March 2015) joint admission requirements and procedures have been established and are implemented by the five partner institutions involved in the delivery of the MSc Programme in Sustainable Forest and Nature Management.

### **4.1 Bachelor's degrees that automatically fulfil the academic requirements**

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



- Biology (*biologi*), Geography and Geoinformatics (*geografi og geoinformatik*) or Natural Resources (*naturressourcer*) from University of Copenhagen.
- Forest Sciences and Forest Ecology, Ecosystem Management or Ecosystem Sciences from University of Göttingen
- Forest Science or Biology from Swedish University of Agricultural Sciences
- Forestry and Environmental Sciences from University of Florence, Marche Polytechnic University, University of Naples Federico II, University of Basilicata, Palermo University, University of Turin or University of Tuscia.
- Forestry and Environmental Technologies from University of Molise or University of Padova.
- Biology, Geography or Agrobiography from Aarhus University.
- Biology or Geography from Aalborg University
- Biology, Technological and Socio-Economic Planning (*TekSam-Miljøplanlægning*), Natural Sciences or Geography from Roskilde University
- Natural Sciences (international Bachelor's degree) from Roskilde University
- Biology from University of Southern Denmark
- Forest and Landscape Engineering (*skov- og landskabsingeniør*) or Urban Landscape Engineering (*urban landskabsingeniør*) from University of Copenhagen.

#### 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 is qualified for admission to the MSc Programme in Sustainable Forest and Nature Management if the programme includes at least one of the following:

- 20 ECTS within forestry
- 20 ECTS within biology
- 20 ECTS within ecology
- 20 ECTS within natural resource management
- 20 ECTS within nature management
- 20 ECTS within physical geography

#### 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 Subsection 4.1-2.

#### 4.4 Language requirements

Applicants must document English language qualifications. Accepted tests and required minimum scores are published online at [www.science.ku.dk](http://www.science.ku.dk).

#### 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 (§12-courses) cannot be included in the overall assessment.

## 5 Prioritisation of applicants

There is no BSc 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:

- Grades achieved in relevant courses\*
- Grade-point average achieved in qualifying degree.

\*Relevant courses include courses in botany, zoology, population/community ecology, systems ecology, plant physiology, cytology, soil science and biogeochemistry.

## 6 Structure of the programme

The compulsory subject elements, restricted elective subject elements and the thesis constitute the central parts of the programme (Section 27 of the Ministerial Order on Bachelor and Master's Programmes (Candidatus) at Universities).

Before the beginning of the MSc Programme the student must choose destination and specialisation for their second year of study.

### 6.1 Basic course package: University of Copenhagen

Basic course package is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 30 ECTS.
- Restricted elective subject elements, 30 ECTS.

#### 6.1.1 Compulsory subject elements (University of Copenhagen)

All of the following subject elements are to be covered (30 ECTS):

Course Code	Course Title	Block	ECTS
NIGK21036U	Thematic Course: Ecology and Management of Forests and other Semi-natural Terrestrial Systems	Block 1	15 ECTS
LOJK10282U	Applied Economics of Forest and Nature	Block 2	7.5 ECTS
LFKK10265U	Conflict Management	Block 2	7.5 ECTS

#### 6.1.2 Restricted elective subject elements (University of Copenhagen)

30 ECTS are to be covered as subject elements from the following list:

Course Code	Course Title	Block	ECTS
SGBK20011U	International Nature Conservation	Block 3	7.5 ECTS
NIGK21007U	Integrated Water Resources Modelling	Block 3	7.5 ECTS
NIGK16000U	Applied Ecosystem Ecology	Block 3	7.5 ECTS
NIGK22002U	Tropical Botany	Block 3	7.5 ECTS
LTEK10157U	Natural Resource Sampling and Modelling	Block 3	7.5 ECTS
LOJK10248U	Economic Valuation Methods and Cost-Benefit Analysis	Block 3	7.5 ECTS
NIFK14003U	Incentives and Regulation	Block 3	7.5 ECTS
NIGK23008U	People, Nature and Recreation	Block 3	7.5 ECTS
LFKK10278U	Project Management	Block 3	7.5 ECTS
LNAK10072U	Global Environmental Governance	Block 3	7.5 ECTS

Course Code	Course Title	Block	ECTS
LNAK10104U	Location Specific Knowledge and Fieldwork in Temporary Forest and Nature Management*	Block 3	7.5 ECTS
LNAK10098U	Forest and Nature Management Planning	Block 4	15 ECTS
NIFK13003U	Applied Environmental and Natural Resource Economics	Block 4	7.5 ECTS
NIFK21000U	Gender, Environment and Sustainable Development	Block 4	7.5 ECTS
LNAK10010U	Environmental Impact Assessment	Block 4	7.5 ECTS
NIGK15005U	Ecological Modelling	Block 4	7.5 ECTS
	Project in practice	Block 1-5	15 ECTS
NIFK13008U	Sustainable Forest and Nature Management*	Block 5	7.5 ECTS

\* Students receiving an Erasmus Mundus scholarship must pass both courses.

### 6.3 Specialisation: Conservation Biology and Land Management (Bangor University)

The specialisation is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 20 ECTS
- Restricted elective subject elements, 10 ECTS
- Thesis, 30 ECTS

List of subject elements offered as part of the specialisation is published online at [www.em-sufonama.eu](http://www.em-sufonama.eu).

#### 6.3.1 Thesis

The MSc Programme in Sustainable Forest and Nature Management with a specialisation in Conservation Biology and Land Management includes a thesis corresponding to 30 ECTS. The topic of the thesis must be within the academic scope of the programme and the thesis must be carried out in accordance with the rules defined by the cooperating university (Section 19 of the Ministerial Order on the International Education Activities of Universities).

### 6.4 Specialisation: Forest and Nature Management in a Changing Climate (University of Göttingen)

The specialisation is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 24 ECTS
- Restricted elective subject elements, 6 ECTS
- Thesis, 30 ECTS

List of subject elements offered as part of the specialisation is published online at [www.em-sufonama.eu](http://www.em-sufonama.eu).

#### 6.4.1 Thesis

The MSc Programme in Sustainable Forest and Nature Management with a specialisation in Forest and Nature Management in a Changing Climate include a thesis corresponding to 30 ECTS. The topic of the thesis must be within the academic scope of the programme and the thesis must be carried out in accordance with the rules defined by the cooperating university (Section 19 of the Ministerial Order on the International Education Activities of Universities).

### 6.5 Specialisation: Sustainable Forestry in the Boreal and Temperate Zones of Northern Europe (Swedish Agricultural University)

The specialisation is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 15 ECTS
- Restricted elective subject elements, 15 ECTS.
- Thesis, 30 ECTS.

List of subject elements offered as part of the specialisation is published online at [www.em-sufonama.eu](http://www.em-sufonama.eu).

### **6.5.1 Thesis**

The MSc Programme in Sustainable Forest and Nature Management with a specialisation in Sustainable Forestry in the Boreal and Temperate Zones of Northern Europe include a thesis corresponding to 30 ECTS. The topic of the thesis must be within the academic scope of the programme and the thesis must be carried out in accordance with the rules defined by the cooperating university (Section 19 of the Ministerial Order on the International Education Activities of Universities).

## **6.6 Specialisation: Sustainable Forest and Land Protection (University of Padova)**

The specialisation is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 24 ECTS
- Restricted elective subject elements, 6 ECTS
- Thesis, 30 ECTS

List of subject elements offered as part of the specialisation is published online at [www.em-sufonama.eu](http://www.em-sufonama.eu).

### **6.6.1 Thesis**

The MSc Programme in Sustainable Forest and Nature Management with a specialisation in Sustainable Forest and Watershed Management in Mountain Areas includes a thesis corresponding to 30 ECTS. The topic of the thesis must be within the academic scope of the programme and the thesis must be carried out in accordance with the rules defined by the cooperating university (Section 19 of the Ministerial Order on the International Education Activities of Universities).

## **7 Exemptions**

In exceptional circumstances, the study board may grant an exemption from the regulation on compulsory completion of the second year of study at one of four partner institutions: Bangor University (UK), University of Göttingen (GER), Swedish Agricultural University (SE) or University of Padova (ITA).

In exceptional circumstances, the study board may also 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 Amendments**

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](http://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 is only shown for the stay at University of Copenhagen.

**Table – Basic course package: University of Copenhagen**

	<b>Block 1</b>	<b>Block 2</b>	<b>Block 3</b>	<b>Block 4</b>
<b>1st year</b>	<b>Thematic Course: Ecology and Management of Forests and other Semi-natural Terrestrial Ecosystems</b>	<b>Conflict Management</b>	<b>Restricted elective*</b>	<b>Restricted elective*</b>
		<b>Applied Economics of Forest and Nature</b>	<b>Restricted elective*</b>	<b>Restricted elective*</b>
<b>2nd year</b>	<b>Partner University</b>			

\*+ summer course in block 5

## 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

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

#### 1.1 Specialisation 2: Management of Forest and Nature for Society (UCPH)

This specialisation – available to students who have completed their first year of study at Bangor University or University of Göttingen - is set at 60 ECTS and consists of the following:

- Compulsory subject elements, 7.5 ECTS.
- Restricted elective subject elements, 22.5 ECTS
- Thesis, 30 ECTS.

**Table – Specialisation 2: Management of Forest and Nature for Society (UCPH)**

	Block 1	Block 2	Block 3	Block 4
1st year	Partner University			
2nd year	Planning Interdisciplinary Research (NIFK18001U)	Restricted elective	Thesis	
	Restricted elective	Restricted elective		

#### Restricted elective subject elements

22.5 ECTS of the following subject elements are to be covered:

Course Code	Course Title	Block	ECTS
NIFK14031U	Behavioural and Experimental Economics	Block 1	7.5 ECTS
LNAK10099U	Biodiversity in Urban Nature	Block 1	7.5 ECTS
LOJK10272U	Applied Econometrics	Block 1	7.5 ECTS
NIFK22002U	Global Forests and People	Block 1	7.5 ECTS
NIGK18000U	Biodiversity in Managed Forests	Block 1	7.5 ECTS
LNAK10052U	Silviculture of Temperate Forests	Block 2	7.5 ECTS
LOJK10282U	Applied Economics of Forest and Nature	Block 2	7.5 ECTS
NIFK16006U	Participatory Natural Resource Governance	Block 2	7.5 ECTS
NIGK13007U	Ecosystem Services from Forests and Nature	Block 2	7.5 ECTS
LTEK10157U	Natural Resource Sampling and Modelling	Block 3	7.5 ECTS
	Project in Practice	Block 1-5	15 ECTS
NIFK17002U	Conflict Analysis and Negotiation Design	Discontinued*	7.5 ECTS

\*See discontinued courses below

### 2 General changes for students admitted in the academic year 2021/22

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

## 2.1 Specialisation 2: Management of Forest and Nature for Society (UCPH)

This specialisation – available to students who have completed their first year of study at Bangor University or University of Göttingen - is set at 60 ECTS and consists of the following.

**Table – Specialisation 2: Management of Forest and Nature for Society University of Copenhagen**

	Block 1	Block 2	Block 3	Block 4
1st year	Partner University			
2nd year	Planning Interdisciplinary Research	Restricted elective	Thesis	
	Restricted elective	Restricted elective		

### Restricted elective subject elements (University of Copenhagen)

22.5 ECTS of the following subject elements are to be covered:

Course Code	Course Title	Block	ECTS
NIFK14031U	Behavioural and Experimental Economics	Block 1	7.5 ECTS
LNAK10099U	Biodiversity in Urban Nature	Block 1	7.5 ECTS
LOJK10272U	Applied Econometrics	Block 1	7.5 ECTS
NIFK22002U	Global Forests and People	Block 1	7.5 ECTS
NIGK18000U	Biodiversity in Managed Forests	Block 1	7.5 ECTS
LNAK10052U	Silviculture of Temperate Forests	Block 2	7.5 ECTS
LOJK10282U	Applied Economics of Forest and Nature	Block 2	7.5 ECTS
NIFK16006U	Participatory Natural Resource Governance	Block 2	7.5 ECTS
NIGK13007U	Ecosystem Services from Forests and Nature	Block 2	7.5 ECTS
LTEK10157U	Natural Resource Sampling and Modelling	Block 3	7.5 ECTS
	Project in Practice	Block 1-5	15 ECTS
NIFK14013U	Tropical Forests, People and Policies	Discontinued*	7.5 ECTS
NIFK17002U	Conflict Analysis and Negotiation Design	Discontinued*	7.5 ECTS

\*See discontinued courses below.

### 3 Discontinued courses

Course Code	Course Title	ECTS	Interim arrangement
NIFK14013U	Tropical Forests, People and Policies	7.5	The course was restricted elective in the academic year 2021/22.  Offered for the last time: 2021/22 The course is identical to NIFK22002U Global Forests and People.
NIFK17002U	Conflict Analysis and Negotiation Design	7.5	The course was restricted elective in the academic year 2023/24 and earlier.  Offered for the last time: 2023/24 Last exam if applicable (cf. SCIENCE's Teaching and exam rules): 2024/25.



## Appendix 3 Description of objectives for the thesis

After completing a thesis at the University of Copenhagen, the student should have:

### Knowledge about:

- Identification and formulation scientific problems within the study programme's subject areas.
- Identification of suitable combination of methodology and theory based on international research for use in his/her work with the problem formulation.

### Skills in/to:

- Apply and critically evaluate theories/methodologies, including their applicability and limitations, on the basis of an organised value system and with a high degree of independence.
- 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:

- Initiate and perform academic work in a research context.
- Solve complex problems and carry out development assignments in a work context