



Universität für Bodenkultur Wien  
University of Natural Resources  
and Life Sciences, Vienna



# **MSc Natural Resources Management and Ecological Engineering NARMEE**

**- International Joint Master Programme –**

**Concept of the Programme**

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For legal purposes, only the version of the curriculum that has been published in the official journal (Mitteilungsblatt) of BOKU is binding and valid – this course concept is for information purposes only.

## I. Description of Programme

### CONCEPT

#### International Joint Master in Natural Resources Management and Ecological Engineering

This International Master Programme is based on a collaboration between BOKU, the University of Natural Resources and Life Sciences, Vienna, Lincoln University, New Zealand (LU), and CULS, Czech University of Life Sciences, Prague.

#### Homepages:

Lincoln University

[www.lincoln.ac.nz](http://www.lincoln.ac.nz)

Czech University of Life Sciences, Prague

[www.czu.cz/en](http://www.czu.cz/en)

#### General objective:

The focus is on preparing students for an international career in Natural Resources Management and Ecological Engineering by enhancing comparative studies at different universities, in the southern and in the northern hemisphere.

#### Course of Study:

The course of study is divided into four semesters, with the fourth being exclusively dedicated to final work on a Master's thesis. The programme comprises the following four **subjects**:

**Ecological Engineering (EE)**

**Nature Conservation & Wildlife Management (NC)**

**Risk Management (RM)**

**International Business and Sustainability (IB)**

In the third semester, a definite decision by the students on the **specialisation (subject)** has to be made. It is also recommended that the second semester be already related, at least partly, to the foreseen specialisation.

The final **Master's thesis** has to be related to the selected specialisation in the third semester. However, this does not imply that the topic of the thesis refers to a certain area only because interdisciplinary themes are also very much encouraged. The thesis is to be supervised jointly by professors from BOKU and LU or BOKU and CULS.

The first three semesters are subdivided into two periods each as indicated below, hence the course of study is subdivided into the following **sub-periods**:

- 1. Introduction and Basics**
- 2. General Skills**
- 3. Specialisation**
- 4. Thesis**

The following scheme illustrates the course of study with all the offered subjects and subdivisions:

## COURSE OF STUDY

### TABLE of SUBJECTS

Each student has to take the equivalent of **120 ECTS-Credits** (European Credit Transfer System) which are distributed as follows: (The number in brackets refers to the number of credits.)

The table also includes the number of teaching hours (hours of teaching per week). In Austria, a semester is usually 14 weeks, which means (23x14 + 20x14 + 22x14=) 910 teaching hours (45 minutes each) in total.

	Semester	ECTS (120)	SWS	International Master in Natural Resources Management and Ecological Engineering
Subjects	1	6	7	Introduction and Case Studies (6 ECTS)
		24	16	Basic Studies in EE, NC, RM, IB (24)
	2	30	20	General Skills (30)
Thesis and related subjects	3	30	12	Specialisation related to Thesis (18)
			6	Elective Field of Concentration (10)
			2	Master Thesis Seminar (2)
	4	30	-	Thesis (30)

Legend: Ecological Engineering (EE)  
 Nature Conservation & Wildlife Management (NC)  
 Risk Management (RM)  
 International Business and Sustainability (IB)

## Explanation of Semesters and Subjects:

### First semester: Introduction (Common Core)

The Common Core being offered at BOKU, LU and CULS is compulsory to all participants and aims at providing an introduction for the students. This introduction comprises of the context of the programme and provides a basis for scientific working. The Common Core should help to set the international scene for the degree and needs not be identical at both institutions.

The contents of the Introduction at BOKU are defined as follows:

- \* *Applied Research Methods*
- \* *Nature Resources Management, including social, economic and technical aspects*
- \* *International legislation and treaties with social economic problem solving approaches to environmental issues*
- \* *Case Studies supplement introduction*

The following are guidelines for completing the programme; however, they may be taken in different order to fit into the students' interests and schedules.

### Basics

The basics are designed in a way to provide a specific overview of the specialisations offered within the framework of the Master's programme to foster the holistic understanding of environmental management and engineering and to encourage interdisciplinary study. These courses are flexible and can be taken in the first and second semester.

### General Skills

General skills are offered at a level where students are asked to decide on the subject they wish to specialise in. There is room for flexibility, but the decision process is supervised and finally approved by the course director (Individual Course Plan).

### Specialisation

This part is devoted to intensive work in the selected specification. Subjects of specialisation have to be closely connected with the following Master's thesis.

### Thesis

The thesis should be an elaboration of the area of specialisation that was chosen by the end of the third semester, with interdisciplinary approaches being fully encouraged.

For this Master's programme a **Mentor System** will be established at BOKU, LU and CULS. A mentor guides a student through the decision making process during the course of studying. Any changes to the selected courses have to be reported to the mentor.

The Master's programme may be taken in accordance with **study periods** at Lincoln University or BOKU or CULS and BOKU respectively;

## II. Admission

### **General Requirements :**

#### **Bachelor in Natural Sciences**

Graduates of one of the Bachelor degree programmes at the University for Natural Resources and Applied Life Sciences, Vienna are admitted to the Master's degree programme Natural Resources Management and Ecological Engineering.

Graduates of other relevant Bachelor degree programmes have to prove basic knowledge in the field of natural sciences.

The final decision, if the candidate fulfils the requirements, is taken by the programme coordinator, Prof. Haberl ([raimund.haberl@boku.ac.at](mailto:raimund.haberl@boku.ac.at))

If you want to know in advance if your pre-studies are sufficient, please write an e-mail to him including

- your CV
- a short description of your study programme
- your transcript of records

For all other questions, please contact Ulrike Piringer: [ulrike.piringer@boku.ac.at](mailto:ulrike.piringer@boku.ac.at)

#### **English language requirements for admission to an English Master programme at BOKU:**

English language certificates at a level of B2 or C1 of the European Reference Framework have to be submitted for the admission. Equivalent to these certificates are the following exams:

- BOKU language course (at least of level English III)
- Cambridge Certificate of Advanced English
- IELTS-Test results of 6.0 or better
- Completion of a study programme that was entirely taught in English

### **Admission Procedure :**

There is no special admission procedure for Narmee, please check the general BOKU admission regulations!

#### **Applicants with a relevant Bachelor degree from an Austrian university:**

Please find some general information about the application at <http://www.boku.ac.at/1323.html> (unfortunately only in German)

#### **Applicants with a relevant Bachelor degree from a non-Austrian university:**

Please use the general BOKU Application form :

<http://www.boku.ac.at/2524.html?&&L=1>

and read the "Information for applicants with a foreign school leaving certificate" very carefully!

You can find general information about admission at BOKU also at

<http://www.boku.ac.at/2521.html> ;

According to the cooperation agreement between LU and BOKU NON-EU/EEA+CH citizens have to apply at LU/New Zealand or CULS/Czech Republic.

## **Application at Lincoln or Prague:**

**LU Narmee Info** - <http://www.lincoln.ac.nz/Degrees-Diplomas-and-Certificates/Qualifications/Environment-and-Natural-Resources/Master-of-Natural-Resource-Management--Ecological-Engineering/>

## **LU Application**

You will find all information for "new students" at Lincoln University here:  
<http://www.lincoln.ac.nz/Studying-at-Lincoln/Entrance-and-enrolment/>

## **LU Calendar**

semester 1 (mid-February to mid-June)

semester 2 (July to October)

<http://www.lincoln.ac.nz/Studying-at-Lincoln/Key-dates/>

**CULS Info** – <http://www.czu.cz/en/> and <http://www.af.czu.cz/en/?r=1238>

## **CULS application form:**

<http://www.af.czu.cz/en/?r=1240>

## **Centre for International Relations:**

<http://www.af.czu.cz/en/?r=1261>

## **CULS Calendar**

Autumn Semester ( Mid September – January)

Spring Semester ( Mid February – June)

<http://www.czu.cz/en/?r=1714>

### III. Courses Offered

#### Types of Courses at BOKU:

VO	Vorlesung = lecture Seminar = seminar	teacher talks, possibility of student-questions special and profound lecture or/and students work out a report/paper, fewer students per course
SE		
UE	Uebung = exercise	practical exercises; labs;
EX	Exkursion = excursion	field trip
PR	Praktikum = practical course	practical course; lab
PJ	Projektarbeit = project work	project work or group work

#### There can also be combinations of different types of courses, e.g.:

VS	lecture + seminar
VU	lecture + exercises
VX	lecture + excursion
VY/VZ	lecture + practical exercises + excursion

### III.1. Courses offered at BOKU

#### Compulsory courses

The following courses from the sub-periods **Introduction and Case Studies** and **Master's Thesis Seminar**, offer a total of **8 ECTS**, all of which are **compulsory**:

Course Number	Lecture	Type	Teaching hours	WS/SS	ECTS
<b>Introduction and Case Studies</b>					
911.315	Introduction in Natural Resources Management and Ecological Engineering	VO	3.0	WS	3.0
811.354	Case Studies in Sanitary Engineering	SE	3.0	WS	3.0
<b>Master's Thesis Seminar</b>					
	Master's Thesis Seminar	SE	2.0		2.0

**Basic Studies** offers a total of 36 ECTS of which **24 ECTS** have to be chosen as compulsory courses:

<b>Basic Studies (a minimum of 24 ECTS has to be chosen)</b>					
Course Number	Lecture	Type	Teaching hours	WS/SS	ECTS
<b>ECOLOGICAL ENGINEERING (EE)</b>					

811.356	Water Supply and Wastewater Treatment	VO	2.0	WS	3.0
816.338	Water Resources Planning and Management	VO	2.0	WS	3.0
816.335	Introduction to Water and Soil (Soil Hydrological Processes)	VO	1.0	WS	1,5
911.316	Indicators for Natural Resources Management and Ecological Engineering in the International Context	VU	1.0		1,5
<b>NATURE CONSERVATION AND WILDLIFE MANAGEMENT (NC)</b>					
914.306	Assessing Diversity in Forest Stands	VW	2.0	WS	3.0
832.312	(Eco-) tourism & Management of Protected Areas	VX	2.0	SS	3.0
<b>RISK MANAGEMENT (RM)</b>					
816.336	Integrated Flood Risk Management	VO	2.0	WS	3.0
857.321	Remote Sensing and GIS in Natural Resource Management	VO	2.0	WS	3.0
857.320	Remote Sensing and GIS in Natural Resource Management	UE	2.0	WS	3.0
915.327	Project Management	VU	2.0	SS	3.0
<b>INTERNATIONAL BUSINESS AND SUSTAINABILITY (IB)</b>					
731.324	Resource and Environmental Economics	VO	2.0	SS	3.0
731.325	International Commodity Markets and Trade Policy ( <i>Agricultural and Food Policy II</i> )	VO	2.0	WS	3.0
732.326	Institutions and Policies of the EU ( <i>Introduction to the Law and Politics of the European Union</i> )	VO	2.0	SS	3.0

\* The course 911.316 is offered only every two years.

### Elective Courses

From the listed subjects **Ecological Engineering, Nature Conservation and Wildlife Management, Risk Management and International Business and Sustainability**, a minimum of **30 ECTS** have to be chosen from the sub-period **general skills** and from the sub-period **specialisation** a minimum of **18 ECTS** have to be chosen:

Course Number	Lecture	Type	Teaching hours	WS/SS	ECTS
<b>General Skills (a minimum of 30 ECTS has to be chosen)</b>					
<b>ECOLOGICAL ENGINEERING (EE)</b>					
771.304	Environmental Chemistry	SE	3.0	SS	4,5
811.357*	Biology, Chemistry and Microbiology for Civil Engineering*	VU	2.0	SS	3.0

816.342	Possible Impacts of Climate Change on Water Resources	VO	2.0	SS	3.0
816.340	Ecologically Oriented Methods and Monitoring in River Engineering	VU	2.0	SS	3.0
911.317	Soil Properties and Processes for Ecological Engineering	VU	2.0	SS	3.0
<b>NATURE CONSERVATION AND WILDLIFE MANAGEMENT (NC)</b>					
913.311	Multiple Criteria Decision Making in Natural Resource Management	VS	2.0	WS	3.0
933.302*	Protection of Natural Resources by Organic Farming**	VS	2.0	WS	3.0
832.302	Human Dimensions in Wildlife Research & Management	VO	1.0	SS	1,5
832.311	More Recent Conflict Species in Wildlife Management	VX	1.0	SS	1,5
<b>RISK MANAGEMENT (RM)</b>					
871.322	Science of Natural Mountain Disasters	VS	3.0	WS	4,5
871.304	Hazard and Risk Assessment	VS	3.0	SS	4,5
915.344	Technology Assessment	VS	2.0	WS	3.0
732.346	Social Studies of Risk	VS	2.0	WS	3.0
874.300	Soil- bioengineering techniques (slopes & gullies)	VY	2,5	SS	3,5
732.318	Forest Policy Analysis	VS	2.0	SS	3.0
<b>INTERNATIONAL BUSINESS AND SUSTAINABILITY (IB)</b>					
731.327	Principles of Empirical Research Methods in the Social Sciences	VO	2.0	SS	3.0
731.328	Valuation Methods for Natural Resources ( <i>Economic Valuation of Market Goods and Natural Resources</i> )	VO	2.0	SS	3.0
735.329	Decision Making in Management with Special Emphasis on Cultural Differences	VO	2.0	SS	3.0
731.347	Regional Economics and Regional Governance	VO	2.0	SS	3.0

\* The courses 811.357 and 933.302 are offered only every two years.

Course Number	Lecture	Type	Teaching hours		ECTS
<b>Specialisation (a minimum of 18 ECTS has to be chosen)</b>					
<b>ECOLOGICAL ENGINEERING (EE)</b>					
811.358	Planning and Design in Water Supply and wastewater Treatment	UE	2.0	SS	3.0
813.359	Waste Recycling and Composting	VO	2.0	SS	3.0
911.318	Ecology and Management of the Rhizosphere in Ecological Engineering	UE	3.0	WS	4,5
816.339	Sediment Regime and River Morphology	VO	2.0	SS	3.0
815.306	Applied Soil Physics	PR	3.0	SS	4.5
815.311	Simulation in Vadose Zone Environment	VU	2.0	WS	3.0
911.319	In-situ Treatment of Polluted Soils and Sediments: Phytoremediation, In-situ Fixation and Attenuation Techniques	UE	3.0	SS	4.5
811.332	Water Resources Management in Developing Co-operation	VU	2.0	SS	3.0
811.360	Modelling in Sanitary Engineering (Sewer, Treatment Plant + Receiver)	VU	3.0	WS	4.5
811.362	On Site Solutions for Water Supply and Sanitation	VO	2.0	WS	3.0
811.363	Industrial Water Management	VO	2.0	SS	3.0
816.332	Computer Based River Modelling	VU	2.0	WS	3.0
815.321	Soil Conservation and Soil Protection	VU	2.0	WS	3.0
852.316	Global Design Studio	PJ	4.0	SS	6.0
<b>NATURE CONSERVATION AND WILDLIFE MANAGEMENT (NC)</b>					
834.321	Biocultural Diversity in Rural Landscapes	VS	2.0	SS	3.0
912.324	Fire Ecology - Vegetation and Wildlife	VO	1.0	SS	1.5
832.321	BOKU International Wildlife Lectures	VS	2.0	WS und SS	3.0
913.302	Decision Support Systems	VS	2.0	WS	3.0
732.333	Innovations for sustainable Forest Management	VS	2.0	WS	3.0
911.322	Role of Soils in Nature Conservation and Wildlife Management	VU	1.0	WS	1.5
<b>RISK MANAGEMENT (RM)</b>					
871.319	Protection and Mitigation Measures against Natural Hazards	VX	3.0	SS	4.5
871.305	Integral Risk Management	VS	2.0	WS	3.0
911.320	Risk Management by Soil Protection and Remediation	VU	1.0	SS	1.5

911.320	Environmental Risk Analysis and Management	VO	2.0	SS	3.0
815.322	Soil erosion models and their application	VU	3.0	WS	4.5
816.347	Application of GIS in Hydrology and Water Management	VO	2.0	SS	3.0
<b>INTERNATIONAL BUSINESS AND SUSTAINABILITY (IB)</b>					
731.330	International Trade and Environment	VO	2.0	SS	3.0
731.331	WTO and International Environmental Agreements	VO	2.0	SS	3.0
731.333	Globalisation and Rural Development	VO	2.0	SS	3.0
731335	Game Theory in Environmental and Natural Resource Management	VO	2.0	SS	3.0

### **Elective Field of Concentration**

Additional 10 ECTS have to be chosen from the full offer of Master's courses at BOKU.

## III.2. Courses offered at Lincoln University

Students have to study at Lincoln University for one semester. They have to choose 30 ECTS of LU Master courses (= 3 LU-units) + 10 ECTS for their thesis (called “dissertation” at LU) and make a first draft of their Narmee Individual Course Plan before they apply for the exchange with LU.

The Individual Course Plan has to be approved by the Narmee Programme Coordinator at BOKU before students leave.

There is also an LU-Learning Agreement which has to be signed from both coordinators, the Programme Coordinator from BOKU and from LU.

The Individual Course Plan can be changed after arrival if necessary.

**Compulsory courses:** One of the two courses from LU has to be chosen:

Either course        ERST 631  
or course            ERST 636.

**Students have to choose two additional Master’s courses – level 600.**

<http://www.lincoln.ac.nz/Degrees-Diplomas-and-Certificates/Courses-A---Z/>

### Recommendations:

#### **Ecological Engineering (EE)**

Subjects beginning with the prefixes ECOL, ENGN, ERST, MICR, PHSC, PLPT, SOCI, SOSC and TRAN chosen with the approval of the Academic Board from the subjects listed in the schedule of Master’s degree subjects offered at Lincoln University

#### **Nature Conservation and Wildlife Management (NC)**

Subjects beginning with the prefixes ECOL, ERST and PLPT chosen with the approval of the Academic Board from the subjects listed in the schedule of Master’s degree subjects offered at Lincoln University.

#### **Risk Management (RM)**

Subjects beginning with the prefixes ENGN, ERST, PHSC and SOSC chosen with the approval of the Academic Board from the subjects listed in the schedule of Master’s degree subjects offered at Lincoln University

#### **International Business and Sustainability (IB)**

Subjects beginning with the prefixes ECON, ERST, BMGT and SOCI chosen with the approval of the Academic Board from the subjects listed in the schedule of Master’s degree subjects offered at Lincoln University

### III.3. Courses offered at CULS Prague

#### Narmee coursework at CULS – requirements

- Total minimum: **40 ECTS**
- Minimum out of MSc-NRE at Prague: **30 ECTS**

#### There are the following options:

##### No. 1:

- **Minimum: 30 ECTS** from the CULS MSc Natural Resources and Environment (NRE)
- **+ 10 ECTS** from any other offered English master course

##### No. 2:

- **Minimum: 20 ECTS** from the CULS MSc Natural Resources and Environment (NRE)
- **+ 10 ECTS** for thesis work
- **+ 10 ECTS** from any offered English master course at CULS

#### 2 Semesters at CULS – State Exam

It is recommended that students study at CULS Prague for two semesters and earn a total of around 60 ECTS. For getting the MSc NRE degree from CULS students have to do a state exam when they finish Narmee (due to Czech Law).

The state exam at CULS is an oral, public exam in English lasting approx. one hour in front of a commission.

It begins with a presentation of the student's Master's thesis (10-minute powerpoint presentation) and continues with a scientific discussion on the thesis and the following topics:

<b>Natural Resources and Environment (AMN)</b>		
<b>Topics</b>	<b>Courses at CULS</b>	<b>Course Codes</b>
Soil and Environment	Soil and Chemical Relationship	APA19E
	Soil and Plant Relationship	AHA17E
	Soil Conservation and Protection	APA21E
Water and Environment	Hydrogeology for NRE	AIA05E
	Water in Landscape	ZBA06E
	Soil and Water Relationship	AIA04E
Atmosphere, Biosphere and Environment	Agrometeorology	AAA19E
	Agricultural + Environmental Microbiology	AMA09E
	Agricultural Ecology	AEA17E

**It is highly recommended to take the courses mentioned above because those will be the main topics of the state exam.**

#### Prerequisites for the state exam:

Students must have passed all the exams and must have also finished their theses. It is possible to sit the state exam at CULS before having the defence at BOKU, or the other way around doing the defence at BOKU before the state exam at CULS.

#### Programmes taught in English offered at CULS:

<http://www.czu.cz/en/?r=4875>

-> Master programme: Natural Resources and Environment

## IV. Master Thesis

(In NZ called “dissertation”!)

The master thesis has to be conducted with **two supervisors**, one from BOKU and the other from the partner university.

### Thesis at BOKU:

If students are planning to do the thesis at BOKU, the main supervisor will be a professor from BOKU, the co-supervisor from the partner university. The research for the thesis can also be conducted in a third country, supported by the KUWI-stipend from BOKU (Stipendium für kurzfristige wissenschaftliche Arbeiten im Ausland).

Students who are planning to do their Narmee exchange at LU already have to find a supervisor at BOKU before their exchange semester. To be able to look for a co-supervisor during their stay, they already need a confirmation of a BOKU professor that he/she is willing to supervise their master thesis for their application (including working title).

### Thesis at LU:

A thesis done at LU will just be allowed if students apply for it prior departure and get it approved by a professor from LU. This professor from LU will also be the main supervisor. A research fee of NZ\$ 750 (approx. € 390) has to be paid.

### Thesis at CULS:

It is also possible to do the thesis at CULS with the main supervisor either from CULS or from BOKU. Please use a front page for your thesis that is valid for both universities (draft provided by the administrative coordinator at BOKU).

### Co-supervision:

The co-supervisor will give his feedback on your thesis and might have suggestions for further improvement. Of course, he/she will work in close co-operation with the main supervisor.

Students who are planning to do their Narmee exchange at LU are encouraged to conduct a topic with a north/south context, either at BOKU or at LU.

### Topic:

The topic of the thesis has to be related to one of the Narmee courses the student took at BOKU. The teacher of this course will be the main supervisor and advisor. This professor will also be the main examiner at the final defence and the diploma exam, respectively.

### Process:

- Make a concept with the main supervisor
- Contact your co-supervisor at LU /CULS
- Register your thesis at BOKU's Dean's office (room no. 2.5) using a provisional “working title” which can be changed if necessary (changes must be approved by the Dean's office). Also at the same time you will need to name the related Narmee course, which will be the main field of the defence and a second course that will be the second field of examination;
- Work on your thesis
- Get your review and grades from your main supervisor at BOKU
- Get a statement from your co-supervisor (= official signed and stamped letter including a short statement about the thesis plus grade)
- Inform yourself about the turn-in procedures at the Dean's office (room no. 2.5)

## V. Programme Co-ordination

### Co-ordinators at BOKU

<b>Programme Co-ordinator</b>	Prof. Raimund <b>Haberl</b>	<a href="mailto:raimund.haberl@boku.ac.at">raimund.haberl@boku.ac.at</a>
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### Subject Co-ordinators at BOKU:

<b>Ecological Engineering (EE)</b>	Prof. Willibald <b>Loiskandl</b>	<a href="mailto:willibald.loiskandl@boku.ac.at">willibald.loiskandl@boku.ac.at</a>
	Prof. H-P. <b>Nachtnebel</b>	<a href="mailto:hans_peter.nachtnebel@boku.ac.at">hans_peter.nachtnebel@boku.ac.at</a>
<b>Nature Conservation &amp; Wildlife Management (NC)</b>	Prof. Georg <b>Gratzer</b>	<a href="mailto:georg.gratzer@boku.ac.at">georg.gratzer@boku.ac.at</a>
<b>Risk Management (RM)</b>	Prof. Winfried <b>Blum</b>	<a href="mailto:winfried.blum@boku.ac.at">winfried.blum@boku.ac.at</a>
<b>International Business and Sustainability (IB)</b>	Prof. Markus <b>Hofreither</b>	<a href="mailto:markus.hofreither@boku.ac.at">markus.hofreither@boku.ac.at</a>
	Prof. Stefan <b>Vogel</b>	<a href="mailto:stefan.vogel@boku.ac.at">stefan.vogel@boku.ac.at</a>

### Administrative Co-ordination at BOKU:

<b>General Information</b>	<a href="mailto:narmee@boku.ac.at">narmee@boku.ac.at</a>
<b>For enrolled Narmee Students</b>	<a href="mailto:ulrike.piringer@boku.ac.at">ulrike.piringer@boku.ac.at</a>

All BOKU Narmee students have to report to Mag. Ulrike Piringer to get the “Narmee Individual Course Plan” and the individual degree course scheme.

### Co-ordinators at LU

#### First contact point for Narmee students:

Prof. Ian <b>Spellerberg</b>	<a href="mailto:spelleri@lincoln.ac.nz">spelleri@lincoln.ac.nz</a>
Prof. Graeme <b>Buchan</b>	<a href="mailto:buchan@lincoln.ac.nz">buchan@lincoln.ac.nz</a>

### Co-ordinators at CULS

Prof. Svatopluk <b>Matula</b>	<a href="mailto:matula@af.czu.cz">matula@af.czu.cz</a>
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## VI. Exchange Process

As an unalterable requirement courses at BOKU and LU or at BOKU and CULS have to be taken. A minimum of 40 ECTS credits at the partner university have to be taken, 10 of which are earned for the thesis.

The course of study needs not be identical with the sequence of the courses which are chosen by the individual students, it can be rather understood as a curriculum.

### Academic Calendar approximately (academic year 2011/12)

<b>BOKU:</b>	Winter semester:	01.10.2011 - 03.02.2012
	Summer semester:	27.02.2012 - 01.07.2012
<b>LU:</b>	Semester 2, 2011:	07.07.2011 - 05.11.2011
	Semester 1, 2012:	27.02.2012 - 21.06.2012
	Semester 2, 2012:	09.07.2012 - 03.11.2012
	See:	<a href="http://www.lincoln.ac.nz/Studying-at-Lincoln/Key-dates/">http://www.lincoln.ac.nz/Studying-at-Lincoln/Key-dates/</a>

### CULS

#### Academic year 2011/12:

Winter semester:	Orientation week:	26.09.2011 - 30.09.2011
	Course period:	03.10.2011 - 08.01.2012
	Examination period:	09.01.2012 - 12.02.2012
Spring semester:	Orientation week:	06.02.2012 - 10.02.2012
	Course period:	13.02.2012 - 04.05.2012
	Examination period:	07.05.2012 - 03.07.2011
See:	<a href="http://www.czu.cz/en/?r=1714">http://www.czu.cz/en/?r=1714</a>	

### VI.1. General

Students need an exact study plan which is called “**Narmee Individual Course Plan**” (It used to be called Learning Agreement but that led to confusion with the Erasmus Learning Agreement). The Individual Course Plan has to be completed prior to departure and has to be signed first by the administrative coordinator and then by the programme coordinator of BOKU and after arrival by the programme coordinator at the partner university.

### Please get into contact with the Narmee administrator at BOKU

#### Mag. Ulrike Piringer

Center for International Relations

BOKU - University for Natural Resources and Applied Life Sciences, Vienna

Peter Jordan - Str. 82A, 1190 Wien, Vienna, Austria

Phone: +43-1-47654-2621

FAX: +43-1-47654-2606

[ulrike.piringer@boku.ac.at](mailto:ulrike.piringer@boku.ac.at)

Office hours:

Monday – Friday            10.00-12.00 am

Additionally Wednesday    2.00-4.00 pm

## VI.2. Exchange to LU – limited number of free study places

BOKU offers free study places at LU and/or a BOKU Narmee Scholarship. You have to apply for both!

### 1. Free Study Places:

**BOKU has a quota of 10 students per academic year who can study at LU for free. All others have to pay a tuition fee of NZ\$ 5,500 (approx. €2,500) per semester at LU.**

The “Scholarship Nomination Council” (Auslandsbeirat) of BOKU will make the final decision about those students who can study at LU within the quota and thus will not have to pay tuition fee.

### 2. Narmee Scholarship:

BOKU also offers a Narmee scholarship of € 1,750 for 10 students per year.

The decision about the award of scholarship will also be done by BOKU’s “Scholarship Nomination Council”.

### Requirements

As a minimum requirement for the exchange with LU, students have to have done 20 ECTS of Narmee courses at BOKU.

### Application

Applicants have to use the same application materials as it is required for Joint Study:

- Instead of the “Äquivalenzliste”, you need your confirmed Narmee “Individual Course Plan” (=Learning Agreement)  
Please contact the Narmee administrator, Mag. Piringer, in advance in order to get the “Individual Course Plan” on time. It is needed for the application.
  
- Additionally you need a confirmation of a BOKU professor that he/she is willing to supervise your master thesis (including working title).

The application form can be downloaded at [www.boku.ac.at/jointstudyout.html](http://www.boku.ac.at/jointstudyout.html)

### For the exchange to LU please apply to:

**Ruth Girstmair, Bakk.techn.**

Center for International Relations

BOKU - University for Natural Resources and Life Sciences, Vienna

Peter Jordan - Str. 82A, 1190 Wien, Vienna, Austria

Phone: +43-1-47654-2605

FAX: +43-1-47654-2606

[Ruth.girstmair@boku.ac.at](mailto:Ruth.girstmair@boku.ac.at)

Office hours:

Wednesday 2.00-4.00 pm

Thursday, Friday 10.00-12.00 am

### Application deadlines with LU:

31<sup>st</sup> of October for semester 1 at LU

1<sup>st</sup> of April for semester 2 at LU

## VI.3. Exchange to CULS

### Application for CULS Prague

#### ERASMUS

If students want to get an Erasmus scholarship they have to apply for it at ZIB with Mag. Agnes Liebl.

- Deadline: Mid of January (for the following academic year)
- Narmee restplaces (for the following summer semester): Mid May

#### Application process and material for CULS

Please note: students who have already been abroad with Erasmus will not get another Erasmus grant but a free study places.

The same application material is used as it is used for Erasmus. Please mark clearly "Narmee". For the application you also need your confirmed Narmee "Individual Course Plan" (=Learning Agreement)

Please contact the Narmee administrator Mag. Piringer in advance in order to get the "Individual Course Plan" on time. It is needed for the application.

Additionally you need a confirmation of a BOKU professor that he/she is willing to supervise your master thesis (including topic, e-mail is sufficient).

#### Application process

- **First: at BOKU**

Please apply with Mag. Agnes Liebl. Find information about the required application material at: <http://www.boku.ac.at/3447.html>

Mag. Agnes Liebl  
Center for International Relations  
BOKU - University for Natural Resources and Applied Life Sciences, Vienna  
Peter Jordan - Str. 82A, 1190 Wien, Vienna, Austria  
Phone: +431-47654-2602  
FAX: +431-47654-2606  
[agnes.liebl@boku.ac.at](mailto:agnes.liebl@boku.ac.at)

Office hours:

Monday – Friday            10.00-12.00 am  
Wednesday additionally    2.00-4.00 pm

➤ **Second: at CULS**

After your nomination by BOKU you have to apply directly at CULS  
<http://www.czu.cz/en/?r=1715>

Required documents:

- Please use the **CULS application form** that is used for Erasmus students.  
➔ mark clearly MSc NRE
- **Transcript of records** (in English) from the Dean's Office of BOKU
- Signed **Narmee Individual Course Plan** (Please check with the programme coordinator and deliver a copy)

**Address, the application should be sent to:**

Ms. Marie Kafkova  
Czech University of Life Sciences Prague  
International Relations office CULS  
Kamýcká 129  
165 21 Praha 6 - Suchdol  
Czech Republic  
[kafkova@af.czu.cz](mailto:kafkova@af.czu.cz)

**Reservation for Accommodation:**

Responsible person at CULS:  
Eva Techniková  
E-mail: [technikova@rektorat.czu.cz](mailto:technikova@rektorat.czu.cz)

## **VII. Visa Requirements**

### **VII. 1. Visa Information for New Zealand**

As soon as you get the “Offer of Study” from Lincoln University you can apply for a student visa at the embassy of New Zealand in Berlin, Germany (The NZ embassy in Vienna does not deal with visa at all.)

The visa process is your own responsibility.

<http://www.nzembassy.com/Germany>

### **VII.2. Visa Information for Czech Republic**

EU-citizens do not need a visa, whereas non European citizens need a visa for Czech Republic.

If you have a multiple Schengen Visa for Austria it is fine for Czech Republic as well. Please inform yourself at the embassy of Czech Republic in Vienna.

**Address:**

Embassy of the Czech Republic in Vienna  
Penzingerstraße 11-13  
1140 Vienna

Tel.: +43189958111

Fax: +4318941200

e-mail.: [vienna@embassy.mzv.cz](mailto:vienna@embassy.mzv.cz)

[http://www.mzv.cz/mission.vienna/en/czech\\_embassy\\_in\\_austria\\_visa\\_and/index.html](http://www.mzv.cz/mission.vienna/en/czech_embassy_in_austria_visa_and/index.html)

## VIII. Finishing Narmee - Graduation

### Process in brief:

#### At BOKU

- After students come back from their study abroad period they have to enter the results of their courses in BOKUonline (exception: students going with ERASMUS who have an "Äquivalenzliste")
- You have to make a final check of your Narmee Individual Course Plan with the Narmee administrator. This is for your own benefit to ensure that all requirements have been met.
- Inform yourself about the turn-in procedures at the Dean's office (room no. 2.5)
- Finish your thesis – get your final reviews and grades (BOKU/CULS: Please use a front page for your thesis that is valid for both universities - draft provided by the administrative coordinator at BOKU)
- Get a statement from your co-supervisor (= official letter, signed and stamped, including a short statement about the thesis and a grade)
- Finish your last exams
- Apply for your diploma exam respectively for your defence at the Dean's office

After your positive defence/diploma exam you will get your Narmee Graduation Certificate and a date for your graduation ceremony at BOKU.

At BOKU students will get a Certificate (Bescheid) in English and German of the degree "**Diplom-Ingenieur**" of the Master's programme Narmee and a "Master Certificate" in English with all of the courses and grades a student did.

#### Certificate from the Partner University

#### MSc Certificate from LU

There is no final exam at LU. Students earn the degree of MSc.

Please send scanned copies of the following documents to the Narmee administrator at BOKU: [Ulrike.piringer@boku.ac.at](mailto:Ulrike.piringer@boku.ac.at) - one pdf per document!:

- Your BOKU Narmee certificate (Bescheid)
- Master certificate
- Your Narmee Individual Course Plan (= Learning Agreement), signed by Prof. Haberl
- The statement from your co-supervisor (= official letter, signed and stamped, including a short statement about the thesis and a grade)
- Your permanent address where the certificate shall be sent to
- Information if you want to participate in the graduation ceremony at LU

**The certificate/parchment, when ready, will be sent to your address directly by Lincoln University.**

Please inform your NARMEE administrator at BOKU as soon as you have received the graduation documents.

## MSc Certificate from Prague – State Exam

It is recommended that students study at CULS Prague for two semesters and earn a total of around 60 ECTS. For getting the MSc NRE degree from CULS students have to do a state exam when they finish Narmee (due to Czech Law).

**Dates:** For 2011: in the week of 23<sup>rd</sup> of May – 27<sup>th</sup> of June 2011

**Registration Deadline:** 4 weeks before state exam

Registration per E-Mail to Mrs. Kafkova: [kafkova@af.czu.cz](mailto:kafkova@af.czu.cz)

### Exam:

The state exam at CULS is an oral, public exam in English lasting approx. one hour in front of a commission.

It begins with a presentation of the student's master's thesis (10-minute-powerpoint presentation) and continues with a scientific discussion on the thesis and **on each** of the following topics and courses:

Natural Resources and Environment (AMN)		
Topics	Courses	Course Codes
Soil and Environment	Soil and Chemical Relationship	APA19E
	Soil and Plant Relationship	AHA17E
	Soil Conservation and Protection	APA21E
Water and Environment	Hydrogeology for NRE	APA23E
	Water in Landscape	LBX32E
	Soil and Water Relationship	APA20E
Atmosphere, Biosphere and Environment	Agrometeorology	AAA19E
	Agricultural + Environmental Microbiology	AMA09E
	Agricultural Ecology	AEA17E

**Students are highly encouraged to take those courses during their study abroad period at CULS or an equivalent course at BOKU!**

### Prerequisites:

Students must have passed all the exams and must have finished their theses. It is possible to do the state exam at CULS before the defence at BOKU, or the other way round doing the defence at BOKU before the state exam at CULS.

### Registration for the state exam:

The following documents have to be sent to Mrs. Kafkova [kafkova@af.czu.cz](mailto:kafkova@af.czu.cz)

- Pdf of the thesis (original thesis in English has to be already in final form = hard covered and must be available in this form for the State Commission at state exam)
- Please use a front page for your thesis that is valid for both universities (draft provided by the administrative coordinator at BOKU)
- Grade of Master Thesis, given at BOKU – will be fully accepted for the state exam
- 2 written statements (supervisor and co-supervisor, in ENGLISH)
- Transcript of records from BOKU and CULS
- If already available: Master certificate from BOKU (it is not necessary); as soon as the Master Certificate is available it has to be turned in as well.

### Graduation ceremony at CULS:

The ceremony will take place in June.

## IX. Annex A

### Short description of the four Subjects (BOKU):

**Subject:**     Ecological Engineering (EE)

**Co-ordinator(s):**     Prof. Willibald **Loiskandl**  
                                  Prof. Hans-Peter **Nachtnebel**

### Problem Setting:

Engineering measures sometimes substantially modify the environment and influence our natural resources, such as water and soil, while trying to serve human requirements. Due to the long lifetime of civil engineering structures it is necessary to develop techniques which are environmentally sound, technically feasible, socially acceptable and economically attractive. Ecology has to be necessarily integrated in all these considerations. This approach demands for a broad framework for the assessment of engineering activities and to identify those techniques which serve human needs without creating adverse environmental impacts.

Therefore, it is necessary to group the set of potential courses into engineering techniques, planning and assessment tools.

### Course Objectives:

The aim of the module ECOLOGICAL ENGINEERING is to elaborate a set of planning and decision making tools, together with engineering techniques, which consider both human requirements and ecologically sound approaches. This requires an integrated approach which will provide the basics of economical evaluation, the fundamentals of impact analysis and management tools that are able to handle several objectives including risk and uncertainty.

The focus will be on the protection of soil and water resources. A good background in engineering sciences is requested.

**Subject: Nature Conservation & Wildlife Mgmt. (NC)**

**Co-ordinator(s): Prof Georg Gratzner**

**Problem Setting:**

Sustainability and biodiversity appear as keywords in present nature conservation and wildlife management issues/demands, as a pronounced goal or/and criterion. But sustainability is not necessarily a principle in nature or an ecosystems' characteristic, although something like "wise use" (often used as a term instead of/ besides sustainability) makes sense to realise/ implement it in the best feasible way in cultural and production landscapes, as well as for partial practices in natural and wildlife resources management. Insofar, the question or problem arises, for instance, how far ecosystems development and wildlife population dynamics should develop unrestrictedly in wilderness areas and national parks, even if these are only limited islands/ fragments, surrounded and influenced by intensively used and altered cultural landscapes in the vicinity. The mobility of – especially larger and migratory – wildlife species makes them users of biotopes with quite different carrying capacities and economic tolerance levels/thresholds. On the other hand, livestock pasturing may also improve grazing capacities for wildlife species – but where lies the balance between economic interests and conservation postulations?

**Course Objectives:**

The various lectures and excursions shall try to mediate the controversial issues/views concerning sustainable use (hunting, fishing, bird watching etc.), prophylactic control (of damages), and sufficient conservation (of species and biodiversity). Insofar, major questions to be addressed are: If and how does sustainability help nature? What amount of nature and biodiversity is needed, or sufficient, in cultural and production landscapes? What are the main criteria and adequate monitoring efforts of an integrative natural resources management? How does rural and industrial development sustainably fit together with nature conservation and vice versa?

**Subject:** Risk Management (RM)

**Co-ordinator(s):** Prof. Blum

**Problem Setting:**

In the previous decades, land use intensity and tourism activities in mountainous areas of many countries significantly increased, leading to greater vulnerability of settlements and infrastructure. Despite rough living conditions in mountain regions, which supported only a low population in former years, millions of tourists in the summer and winter season now enjoy their leisure time in the mountains. However, with this intensification of land use, the demand of protection against natural hazards became more and more a political issue that concerns all of our society. Therefore, land use planning became an important tool for hazard mitigation and hazard prevention. Essential for successful protection measures is the basic understanding of the hazard processes, as well as, a broad overview of possible protection concepts. On the other hand, human activities may have negative impacts on the mountain environment.

**Course Objectives:**

The Subject MOUNTAIN RISK MANAGEMENT provides some basic understanding of processes in mountain areas like floods, debris flow, avalanches and rock fall. Other types of risk relate to the effect of human activities on the mountain environment.

Risk analysis methods and elementary concepts of protection and mitigation measures will be elaborated both in its theoretical, as well as, practical dimensions. The practical application focuses on hazard mapping and land use planning, which are efficient tools for risk mitigation in areas endangered by mountain hazards. Ideally, decision about acceptable risk levels and about mitigation concepts is a process involving a number of different stakeholders. Therefore, it is important to understand how public, political and social aspects can be taken into account in the process of risk evaluation and risk management.

**Subject: International Business & Sustainability (IB)**

**Co-ordinator(s): Prof. Stefan Vogel**

**Problem Setting:**

Sustainability is one of the main factors driving business today. Business and Sustainability are usually considered to be linked through the question whether business is conducted in a sustainable way. However, the question also has to be raised, whether sustainability provides opportunities for business. Businesses have to respond to this challenge within the commercial and political realities of the market. While the primary responsibility may be seen with respect to the economic objectives of organisations, its customers, and its shareholders, there is also a requirement to contribute towards the environmental, social and perhaps the macroeconomic objectives of society. The bottom line is that for sustainability to make good environmental sense it must also make good business sense by incorporating growth, innovation, customer relations and fair competition.

**Course Objectives:**

The course INTERNATIONAL BUSINESS AND SUSTAINABILITY, firstly, aims at providing some basic understanding of the interrelationship between business activities (production, trade, consumption, etc.) and the related demand for natural resources and the environment. Secondly, the relationship between international business and the environment will be elaborated both in its theoretical as well as practical dimensions. Thirdly, the two questions raised at the outset – sustainability of business and/or business of sustainability – are to be addressed in detail at the business level.