



Universität für Bodenkultur Wien

ENVEURO at the University of Natural Resources and Life Sciences, Vienna

<http://www.boku.ac.at/int-master-ells-enveuro.html>

WELCOME TO BOKU!



Contacts at BOKU

- Programme coordinator:
Priv.-Doz. Dr. Markus Puschenreiter
markus.puschenreiter@boku.ac.at
- Deputy programme coordinator
Ao.Univ.Prof. Dr. Maria Fürhacker
maria.fuerhacker@boku.ac.at
- Administrative issues:
Ulrike Piringer
ulrike.piringer@boku.ac.at
Student consulting hours:
Mo-Fr, 10.00-12.00 + We 14.00-16.00





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Teacher Team at BOKU

- **Water Resources:**

Maria Fürhacker: maria.fuerhacker@boku.ac.at

- **Soil Resources and Land Use:**

Markus Puschenreiter: markus.puschenreiter@boku.ac.at

- **Ecosystems and Biodiversity:**

Karin Tremetsberger: karin.tremetsberger@boku.ac.at,

Johann Zaller: johann.zaller@boku.ac.at

- **Climate Change:**

Herbert Formayer: herbert.formayer@boku.ac.at



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Content

- Overview
- Programme Structure
- Basic Semester Package at BOKU
- Specialisations at BOKU + Courses
- Individual Course Plan
- Erasmus (or Alternatives)
- Master Thesis and Graduation





Universität für Bodenkultur Wien

EnvEuro is for students who want:

The best from two universities (double degree)

Choice between six specialisations

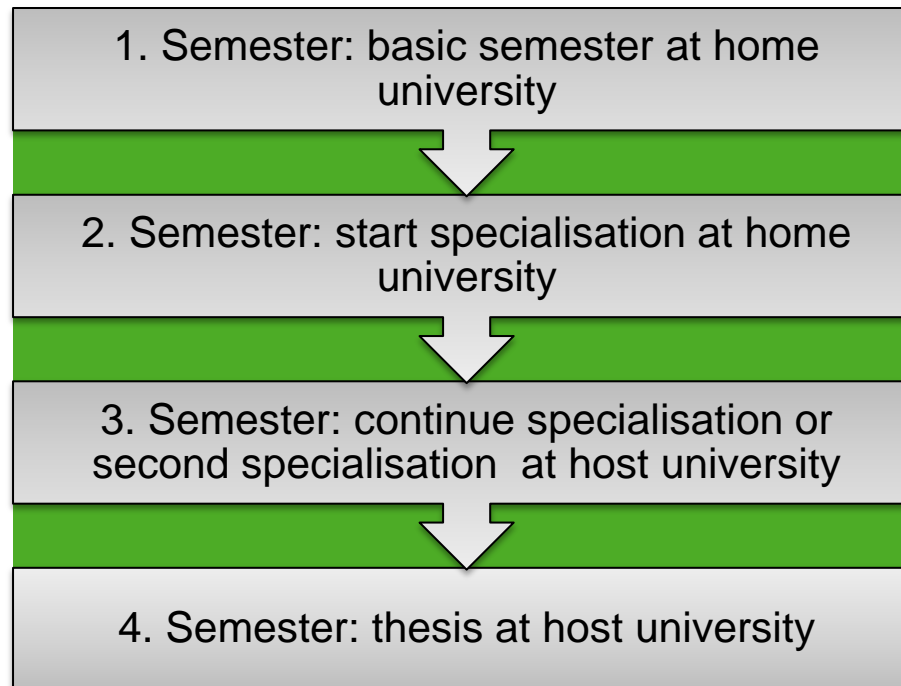
Tailor-made semester packages

International network, competences, outlook
and career prospects

Integrated study abroad and housing service

Jobs with environmental management, technology, research and
analysis in public and/or private sector

Structure of the Programme



Basic Semester at BOKU:

The aim of the **Basic semester** is to bring students to a **common level of knowledge**, introduce the **main concepts in Environmental Science**, and establish a **solid foundation for the specialisations in the Advanced Semester Packages**.

15 ECTS Environmental
Management in Europe

15 ECTS BOKU
courses

Basic Semester (min 30 ECTS)				
	Course ID	Course	BOKU	
Comp.	911349	Environmental Management in Europe (E-Learning, European environmental law and administration)	15	
Comp.	815340	Lecture series in soil, water and atmosphere	3	
	857321	Remote sensing and GIS in natural resource management	3	
	857320	Remote sensing and GIS in natural resource management	3	
	913311	Multiple criteria decision making in natural resource management	3	Requirements: See BOKUonline
	871324	Mountain hazard processes	6	Requirements: See BOKUonline
	735318	Decision support systems	3	
	915344	Technology assessment	3	Requirements: See BOKUonline
	857316	International land management	1,5	
	911322	Role of soils in nature conservation and wildlife management	1,5	
	811362	On site solutions for water supply and sanitation	3	
		Free elective lecture (free elective)	3	
Sum			48	



First Year



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1 Compulsory Course: 815.340 Lecture series in water, soil and atmosphere

<i>Standardgruppe</i>							
Fr	05.10.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	12.10.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	19.10.2018	13:15	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	09.11.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	16.11.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	23.11.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	30.11.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	07.12.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	14.12.2018	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	18.01.2019	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	
Fr	01.02.2019	13:00	15:15	MUG3-SR 13 (MUG3-EG/07)	Abhaltung	fix	



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By the **end of December 2018** you have to choose:

- your **Specialisation I** (Advanced Semester Package 1)
done at the home university
- your **Specialisation II** (Advanced Semester Package 2)
done at the **host university**
- can also be the continuation of Specialisation 1

 your host university

Please check: www.enveuro.eu for more information on the courses offered
(E-mail will be sent out by enveuro@science.ku.dk)

Each partner university offers four specialisations according to the following scheme:

Specialisation	BOKU	UHOH	UCPH	SLU
Water Resources	X			X
Environmental Impacts		X	X	
Soil Resources and Land Use	X	X	X	X
Ecosystems and Biodiversity	X	X	X	
Environmental Management		X	X	X
Climate Change	X	X*	X	

* only ASP-2

Water Resources

Main objective: to provide a sound understanding of water management issues in a river basin.

The **competing interest** of water utilization and resulting conflicts are analysed.

Focus is on integrated water shed management and ecological engineering.

Knowledge of sustainable water management is instructed.

The **legal framework** is an integral part of the courses taught.



Specialisation I: Water Resources (min 30 ECTS)

	Course ID	Course	BOKU	
Comp.	816343	Environmental risk analysis and management	3	
Comp.	815342	Rural water management (advanced)	3	
	816342	Possible impacts of climate change on water resources	3	
	811358	Planning and design in water supply and wastewater treatment	3	Requirements: See BOKUonline
	816347	Application of GIS in hydrology and water management	3	Requirements: See BOKUonline
	771304	Environmental chemistry	4,5	offered only every second year
	811357	Biology, chemistry and microbiology for civil engineering	3	
	816339	Sediment regime and river morphology	3	
	874300	Soil-bioengineering techniques (slopes and gullies)	3	
	815313	Physical and selected chemical methods of soil analysis	4,5	Requirements: See BOKUonline
	871314	Protection and mitigation measures against natural hazards	3	Requirements: See BOKUonline
	731328	Valuation methods for natural resources	3	
	811332	Water resources management in developing cooperation	3	
	811363	Industrial water management	3	
	816354	Advanced topics on hydroclimatology	3	
	915327	Project management	3	
		Free elective lecture (free elective)	6	
Sum			57	

Soil Resources and Land Use



The main objective of the specialisation in Soil Resources and Land Use is to understand the soil functions in ecosystems and crop production systems.

Focus is on soil fertility for biomass production, soil filter capacity, habitat for flora and fauna, source of raw materials, physical basis for human activity and construction and protection of cultural heritage.

Specialisation I: Soil Resources and Land Use (min 30 ECTS)			
	Course ID	Course	BOKU
Comp.	911341	Biogeochemistry of soils	3
Comp.	911301	Soil protection	3
	933308	Soil fertility and soil ecology in organic agriculture	3
	874300	Soil-bioengineering techniques (slopes and gullies)	3
	911343	In-situ treatment of polluted soils and sediments: phytoremediation, in-situ fixation and attenuation techniques	3
	871327	Mountain risk engineering	6
	813301	Global waste management II	3
	815313	Physical and selected chemical methods of soil analysis	4,5
	911336	Soil pollution and remediation	3
	911324	Soil management in tropical and subtropical developing regions	3
	731328	Valuation methods for natural resources	3
	911317	Soil properties and processes for ecological engineering	3
	771304	Environmental chemistry	4,5
	911346	Description, functions of soil structure and its changes in agricultural landuse	3
	816343	Environmental risk analysis and management	3
	911333	Soil microbiology course	4
	911314	Molecular microbial ecology of soils	3
	811357	Biology, chemistry and microbiology for civil engineering	3
	915327	Project management	3
		Free elective lecture (free elective)	6
Sum			70

Requirements: See BOKUonline

Requirements: See BOKUonline

Requirements: See BOKUonline

Requirements: See BOKUonline

Requirements: See BOKUonline

offered every second year

Ecosystems and Biodiversity

Focus is placed on the performance of ecological studies, and on the spatial and temporal variation in populations, including the human influence and possibilities for sustainable management of ecological resources.



The main objective is to provide an understanding of the ecological processes that govern the distribution and abundance of organisms, the structure of organism communities and the dynamics of matter and energy in ecosystems

Specialisation I: Ecosystems and Biodiversity (min 30 ECTS)

	Course ID	Course	BOKU	
Comp.	833314	Urban ecology	3	
Comp.	812360	Ecology restoration and conservation of aquatic and riparian vegetation	2	
Comp.	912337	Biodiversity and conservation of mountain forests	2	
	912328	Agroforestry in mountain regions	3	
	812317	Recreation in riverine landscapes	3	
	816340	Ecologically oriented methods and monitoring in river engineering	3	
	771304	Environmental chemistry	4,5	offered every second year
	874300	Soil-bioengineering techniques (slopes and gullies)	3	
	731328	Valuation methods for natural resources	3	
	933308	Soil fertility and soil ecology in organic agriculture	3	
	834310	Conservation genetic analysis methods	1	
	834312	Conservation genetic lab	2	
	169318	Systems science for participatory management of dynamic socio-ecosystems	2	
	812359	Ecology of algae	2	
	811357	Biology, chemistry and microbiology for civil engineering	3	
	834321	Biocultural diversity in rural landscapes	3	
	816342	Possible impacts of climate change on water resources	3	
	169317	Participatory methods in development research and practice	3	Requirements: See BOKUonline
	913327	Fire management in mountain forest ecosystems - prophylaxis and control	2	Requirements: See BOKUonline
	911324	Soil management in tropical and subtropical developing regions	3	
	831338	Plant populations and conservation genetics	1	offered only every second year
	833313	Scientific writing	1,5	
	915327	Project management	3	
	831301	Ecology of aquatic plants	2	
		Free elective lecture (free elective)	6	
Sum			67	

Climate Change

Focus is on understanding the impacts of climate change on natural and managed ecosystems and human society. Students will learn to choose and apply technical, managerial and economic and political tools relevant for adapting to climate change and reducing greenhouse emissions at global, regional and local scales.



The main objective of the specialisation in Climate Change is to provide the theoretical knowledge, analytical tools and practical competences to understand climate change and to address the challenges of climate change adaptation and mitigation.

Specialisation I: Climate Change (min 30 ECTS - sum of BOKU and LIFE ECTS)				
	Course ID	Course	BOKU	
Comp.	816342	Possible impacts of climate change on water resources	3	
Comp.	814101	Atmospheric pollution and climate change	3	
	871327	Mountain risk engineering	6	Requirements: See BOKUonline
	816354	Advanced topics on hydroclimatology	3	
	816343	Environmental risk analysis and management	3	
	871314	Protection and mitigation measures against natural hazards	3	
	731333	Globalisation and rural development	3	Requirements: See BOKUonline
	731328	Valuation methods for natural resources	3	
	816340	Ecologically oriented methods and monitoring in river engineering	3	
	857304	Remote sensing and image processing	6	Requirements: See BOKUonline
	731324	Resource and environmental economics	3	
	816347	Application of GIS in hydrology and water management	3	Requirements: See BOKUonline
	816325	Flood forecasting and flood protection	3	
	915327	Project management	3	
		Free elective lecture (free elective)	6	
Sum			54	

Environmental Management

More specifically the specialisation focuses on agri-environmental systems analysis and modelling, sustainable food systems, landscape ecology, environmental and natural resources economics, and environmental policy and legislation.



The **main objective** of the specialisation in Environmental Management is to provide theoretical, analytical and practical competences to address the challenges associated with management of natural resources and the environment.

The **specialisation** introduces bio-physical and technical approaches to a more sustainable management of the agricultural environment, analytical tools to assess the sustainability of agri-food systems and the economic and legal aspects of environmental management.

Environmental Impacts



The main objective of the specialisation in Environmental Impacts is to provide a solid understanding of the impacts of human activities on the environment and natural resources.

Focus is on the analysis of environmental impacts at the scales from organisms to landscapes, the analysis of ecosystem functioning and ecosystem disturbances, the analysis of implications for human well-being, and the development of technologies to reduce and remediate environmental pollution, resource depletion and environmental change.



Stick to the curriculum

Individual Course Plan

- Download at: <http://www.boku.ac.at/int-master-ells-env-icp.html>
- Helps you to keep track on the courses that you have done already and that you still have to do
- Has to be signed by administrative AND programme coordinator
- Is needed for your graduation

- Deadline for submission: BOKU Home: June 1; BOKU Host: November 30 (changes possible afterwards)

- Sent the filled-in document by e-mail to enveuro@boku.ac.at and - as soon as the tutor tells you - come to see me during my office hours to check it together

ICP_Enveuro_BOKUHome_2018 [Kompatibilitätsmodus] - Microsoft Excel

Datei Start Einfügen Seitenlayout Formeln Daten Überprüfen Ansicht Acrobat

G110

Individual Course Plan
Learning Agreement
ENVEURO (2018)

NAME:

Student ID BOKU:

Home University: BOKU

Host University:

Field of Specialisation:

Start of Programme:

Estimated Graduation:

Comp. = Compulsory Courses

Please delete all lines of the courses (whole lines), you do not take.

Please fill in the course number and the title of the Free elective course that you take.

Basic Semester (min 30 ECTS)			
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	871324	Mountain hazard processes	6
	735318	Decision support systems	3
	915344	Technology assessment	3

Requirements: See BOKUonline

Requirements: See BOKUonline

Requirements: See BOKUonline

Studyplan

Bereit

80 %



First Year



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Studying at the host university with Erasmus

It is **compulsory** to spend the 3rd and 4th semester at a host university:
SCIENCE, UHOH or SLU

➔ use ERASMUS+

Duration: max. 12 months abroad
(October -> September)
12 months per study cycle



Erasmus+

Information: www.boku.ac.at/int-out-e-en.html



First Year



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Scholarship

Only an additional allowance (not a full grant)

- Denmark, Sweden: € 400,-*
- Germany: €350,-*

[Euro per month, additionally to „Studienbeihilfe“]

* Amounts for study year 2018/2019



First Year



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ERASMUS Application

Online: Mobility Online

www.boku.ac.at/int-out-e-en.html

(Use your BOKUonline login)

**Application period: December 13th 2018 to January 22nd 2019
(18:00)**

for the upcoming academic year 2019/2020



First Year



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Required documents

- **Transcript of records**

Grade point average below 3.0

- **English language proficiency certificate**

TOEFL, IELTS, Cambridge Certificate, etc.

BOKU language course (min. Engl.II), school leaving certificate, lectures given in Engl.(min.30 ECTS), ...

- **Motivation letter**

What are you studying? What are your special interests? Why did you choose this host university (connection to your study)? What do you expect from your Erasmus exchange?



First Year

Required steps



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1. Go to the portal: Choose your host university
2. Give in your data (e.g. university + motivation)
3. Receive a registration e-mail (+ individual login link)
4. Upload:
 - Passport sized photograph
 - Transcript of Records (signed by Study services = registration office, including grade point average)
 - Language Certificate
 - Motivation Letter
5. Confirm dates = send application
6. Receive E-Mail that application has arrived



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After the application

- Nomination by March
- Infosession in March
- Application at host university
- Further steps in Mobility-Online and ERASMUS online
- ...



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Erasmus - Contact

Information: <http://www.boku.ac.at/int-out-e-howtoapply-en.html>

Lisa Kargl

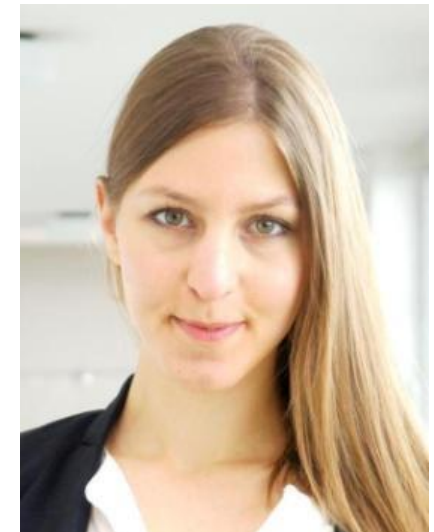
erasmus@boku.ac.at

Student inquiry:

Mon, Tue, Wed, Thur, Fri: 10:00 – 12:00

Additionally Wed 14:00 – 16:00

Exceptions see: <https://www.boku.ac.at/lisakargl.html>





First Year



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1st years: Master's Thesis + Graduation

- The Master's thesis will be written and defended at the host university
- You need a co-supervisor at BOKU (start looking for him when you are still here!)
- You do not have to register your thesis at BOKU
- Graduate at host university first – then submit the documents needed at BOKU
- More Information:
 - <http://www.boku.ac.at/int-master-ells-env-thesis.html>
 - EnvEuro master thesis guide



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Contact

**Zentrum für Internationale Beziehungen (ZIB)
Center for International Relations**

<http://www.boku.ac.at/international-en.html>

Peter Jordan-Straße 82a

1190 Wien

Tel.: 047654 32021

international@boku.ac.at

Office hours: Mo-Fr, 10.00-12.00 + We 14.00-16.00

Exceptions see: <http://www.boku.ac.at/piringerulrike.html>



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**THANK YOU FOR YOUR ATTENTION!
HAVE A NICE STAY HERE AT BOKU!**

**DANKE FÜR IHRE AUFMERKSAMKEIT!
EINEN SCHÖNEN AUFENTHALT HIER AN DER BOKU!**

