

Water is life!

Humans depend on resources and ecological services provided by freshwater ecosystems, which are among the most threatened in the world. Human activities have led to the serious degradation of rivers, groundwater and lakes.

The AL Master's programme provides:

- fundamental understanding of the structure and functioning of freshwater ecosystems;
- expert skills to assess the ecological status of freshwater ecosystems, to plan & carry-out monitoring programmes and to implement suitable conservation measures; and
- professional skills to apply innovative methods and tools to reduce ecosystem degradation, to mitigate impacts, to evaluate management options and to implement appropriate restoration measures.

You are welcome to study the Master's Programme in Applied Limnology throughout at BOKU in Vienna, but as well most welcome to spice-up your experience by attending course modules at our partner universities Egerton University, Kenya and IHE-Delft, The Netherlands.



<http://short.boku.ac.at/al.htm>
al@boku.ac.at



University of Natural Resources
and Life Sciences, Vienna

**Applied
Limnology
MSc Programme**



CAREER PROSPECTS

Graduates of the Master's Programme are trained to integrate ecological, technical, socio-economic and cultural aspects within an international context and make substantial contributions in the following fields of work: private, governmental and non-governmental organisations - in particular in science and higher education, international organisations such as the European Commission, FAO, International River Commissions, technical and administrative planning institutions & companies, development cooperation agencies, non-profit organisations, national and international environmental associations, civil engineering, as well as consultancy.



STUDY PROGRAMME OUTLINE (120 ECTS)

COMPULSORY MODULES

BOKU (Austria)	ECTS
Basics in Limnology	9
Ecology of Aquatic organisms	6
Basis in applied limnology	6
Aquatic ecosystem management	7
Scientific methods	6
Research proposal & master seminar	6
Master's thesis	30

ELECTIVE MODULES (choose 36 ECTS)

BOKU (Austria)	ECTS
Ecohydromorphological monitoring	6
Fish monitoring and assessment	6
Benthic invertebrate monitoring and assessment	6
Aquatic plants	6
Environmental impacts on riverine ecosystems	6
Restoration & conservation of riverine landscapes	6
Planning and management	5,5
Inter- and transdisciplinarity	6
Fisheries management and aquaculture	6
Ecosystem modelling	6
Hydrology and morphology	6
Limnochemistry in human impacted aquatic ecosystems	6
Ecology and taxonomy of freshwater fish and benthic invertebrates	6
Evolutionary biology and conservation genetics	6
River-society interactions	9
Professional perspectives	6

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Egerton University (Kenya)	ECTS
Lake ecology	6
Ecology of Streams and Rivers	6
Wetlands for Water Quality	6
Fisheries and Aquaculture	6
Fieldtrip on sustainable management and utilization of coastal ecosystems	2

IHE-Delft (Netherlands)	ECTS
Data Analysis & Modelling for Aquatic Ecosystems	5.6
Aquatic Ecosystems Processes & Applications	5.6
Wetlands for Livelihoods & Conservation	5.6
Summer School	1.6
Groupwork Environmental Science	5.6

FREE ELECTIVES (14 ECTS)