Curriculum of the Master Degree Programme

"Landscape Architecture and Planning"

Code: 066 419

University of Natural Resources
and Life Sciences, Vienna

Center for International Relations

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Impressum

Center for International Relations
University of Natural Resources and Life Sciences, Vienna
Peter Jordan Strasse 82a, 1190 Vienna
Austria, Europe
Phone: (+43-1)-47654-2600
Fax: (+43-1)-47654-2606
e-mail: zib(at)boku.ac.at
http://www.zib.boku.ac.at/
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Curriculum of the Master degree programme
"Landscape Architecture and Planning"
At the University of Natural Resources and Life Sciences, Vienna

As at October 1th, 2010

§ 1 Qualification Profile

(1) Educational Aims and Goals

The Master degree programme Landscape Architecture and Planning is an applied engineering science based on the application of knowledge in the fields of planning, design, landscaping, ecology and social ecology. Landscape design and landscape architecture have to be regarded as being multidisciplinary, covering planning and design. These disciplines focus on the needs and utilisation of resources of people and are committed to the comprehensive goal of sustainability. As in other fields of science and research, the maxim of equality of the gender mainstreaming is being respected.

The Master degree programme Landscape Architecture and Planning serves the deepening and enlargement of the students' scientific and vocational education and training on the basis of the Bachelor degree programmes.

Students are to gain abilities, knowledge and understanding in the broad field of landscape architecture and planning with this Master degree programme. According to the general mission statement of the University of Natural Resources and Life Sciences, Vienna, the Master degree programme has the aim and goal to teach graduates for individual, interdisciplinary work, being equipped with subject specific problem-solving competences. Furthermore, this Master degree programme also provides room for training and practice as well as the implementation of problem-oriented tasks. One general part as well as six specialisations are offered. These are:

- Landscape Design and Public Space Design
- Landscape Architecture and Landscaping
- Applied Nature Conservation
- Recreation Design
- Water Management and Fluvial Topography
- Development of Rural Areas

Furthermore, the Master degree programme Landscape Architecture and Planning is concluded upon a scientific paper in the form of a Master thesis. This thesis serves the evidence of the student's ability to work on a scientific subject autonomously and in a way that is justifiable regarding content as well as methodology. Students are presented with necessary scientific research techniques and learn to write scientific papers in the course of the Master degree programme. A Master degree programme is a prerequisite for a Doctoral degree programme. The education and training of the Master degree programme is part of life-long learning processes and a period of personal development and the determination of one's own identity in our social surroundings.

The following general abilities are to be enlarged and deepened:

- Problem-solving competence, linked thinking and global acting,
- Analytical thinking,
- Critical, reflexive thinking, which includes the ability to question one's own as well as others' point of views,
- Social competences such as responsibility, teamwork, leader qualities, independence,
- The ability to vividly gain necessary information,
- The ability to apply gained knowledge,
- The ability to accurately and exactly present and pass on gained insights and results

The following specific abilities are to be taught and / or developed:

- Problem-solving competences in the field of social ecology, ecology and design
- Ability to develop and realize design ideas from idea to concept to a final design program
- Ability to supervise and lead the realisation of measures in the field of landscape design
- Ability to fulfil criteria stated under (2).

(2) Fields of Activity

Landscape architecture and planning comprises the following fields of activities:

- Landscape design and public space design
- Gender mainstreaming and feminine design
- Landscape architecture, public space design and landscaping
- Urban and regional planning, transport planning
- Water design and engineering biology
- Land use, landscape maintenance, landscape maintenance design
- Nature conservation and landscape ecology
- Recreation design, biological reserve management and visitors guidance
- Cross section-oriented environment design and professional accordance of environmental compatibility

Graduates of the Master degree programme Landscape Architecture and Planning are especially enabled to work in the following fields of work:

- Freelance or commercial self-employed work as civil engineer, engineering adviser for landscape design and landscape architecture or business licence for technical offices
- Work as consultant
- Employee in a design studio
- Executive position in a construction office
- Executive position in public administration such as the city or community administration, public authorities (county, province and federation)
- Educational and scientific institutions
- Unions, media

§ 2 Format of the Master Degree Programme

Overview	**Semester hours**	**ECTS**
Compulsory Courses	20	25,0
Optional Courses	36	54,0
Free Optional Courses	7	11,0
Total	63	90,0
Master Degree Thesis		30,0
Total		120,0

The Master degree programme in Landscape Architecture and Planning comprises four semesters and is made up of 63 semester hours. Of the total number of semester hours 20 are compulsory courses, 36 semester hours are optional courses and 7 semester hours free optional courses.

The 36 semester hours for optional courses have to be chosen from the specialisation modules. Apart of the possibility of choosing an individual collection of optional courses from the modules listed in § 7 to § 12, six specialisations can be chosen.

When a specialisation is chosen, 36 semester hours have to be chosen according to the following:

12 semester hours are compulsory per specialisation, from the other 24 semester hours 6 semester hours per module have to be chosen and 6 semester hours are of the student's own choice from all three modules.

If desired, the specialisation decided upon will also be stated in the Master degree graduation paper.

The Master degree programme Landscape Design and Landscape Architecture is concluded upon a scientific paper in the form of a Master thesis. This thesis serves the evidence of the student's ability to work on a scientific subject autonomously and in a way that is justifiable regarding content as well as methodology.

§ 3 Admission to the Master Degree Programme

Graduates of the Bachelor degree programme Landscape Architecture and Planning at the University for Natural Resources and Life Sciences are admitted to the Master degree programme Landscape Architecture and Planning. Furthermore, graduates of Bachelor degree programmes taken from the fields of design and planning, engineering sciences, life sciences, geosciences as well as graduates from equivalent international study programmes are admitted to this Master degree programme

§ 4 Academic Qualifications

The Master degree programme Landscape Architecture and Planning is an engineering degree. In accordance with this classification of engineering degrees, graduates of the Master degree programme will be awarded the academic qualification “Diplom-Ingenieur of technical sciences”, shortened to “Dipl.-Ing.” or “DI”.

§ 5 Types of Courses

Courses within this degree are defined as follows:

(1) Lectures (VO):

Courses in which portions of an academic discipline and the methods involved are didactically presented.

(2) Lectures with Practical Exercises (VU):

Courses in which portions of an academic discipline and the methods involved are didactically presented and intertwined with practical exercises actively engaging students.

(3) Lectures with Seminars (VS):

Courses in which portions of an academic discipline and the methods involved are didactically presented and intertwined with independent research of students.

(4) Lectures with Excursions (VX):

Courses in which portions of an academic discipline and the methods involved are didactically presented by means of excursions.

(5) Practical Exercises (UE):

Practical exercises are courses, which are in professional connection to a lecture. They serve to apply specific practical abilities and skills presented theoretically during the lectures. Furthermore, these practical exercises also serve the acquisition of specific practical knowledge.

(6) Practical Exercises with Excursions (UX):

Courses in which portions of an academic discipline and the methods involved that were presented by means of excursions are independently researched by the students through field work.

(7) Project Courses (PJ):

Courses characterised by problem-based learning. In small groups, students work on pre-defined case studies from the definition of the problem to actual implementation to a written report and presentation.

(8) Seminars (SE):

Seminars are courses, which assist in the development of academic abilities. They serve to acquire knowledge autonomously and deepen learned course content and scientific discussion. Students have to hand in a written paper and / or do presentations.

(9) Excursions (EX):

Excursions are courses held in Austria and abroad and focus on aspects of the Master degree programme Landscape Architecture and Planning.

(10) Practical Experience (PR):

These are characterised by problem-based learning. Within a certain topic, students work, primarily in small groups with assistance, through case studies involving the definition of a problem through realisation of the project to the production of written work.

If necessary courses can also be held out of the University of Natural Resources and Life Sciences, Vienna.

§ 6 Compulsory Courses for the Master degree Landscape Architecture and Planning[1]

Used abbreviations:

SST = Weekly semester hours

ECTS = European Credit Transfer System points

WS = Winter Semester

SS = Summer Semester

T2 = 2-year rotation 2 = Courses which take place on even academic years (every two years), for example 2008/09 and 2010/11.

[1] A more detailed description of all courses, including objective of the course, course contents, name of lecturer, prerequisites, recommended reading, teaching methods, assessment methods and language of instruction, is found in the BOKUonline: https://online.boku.ac.at/

Number	Type	Name	Language	Semester	SST	ECTS
Compulsory Courses						
852314	PJ	Landscape Architecture Design Project	German	WS or SS	5.0	7.5
852318	VS	Landscape Architecture II	German	WS	2.0	2.0
854317	VS	Socio-Economic Aspects in Landscape Planning and Landscape Architecture	German	WS	2.0	2.0
854318	PJ	Project on Spatial Development (Nature Conservation and Tourism, Landscape Planning, Spatial Planning and Aquatic Ecosystem Management)	German	WS	2.0	2.0
854324	VS	Landscape Planning II	German	WS	2.0	2.0
855302	VO	Spatial Planning: Legal and Planning Instruments	German	WS	2.0	2.0
874301	VS	Landscape Construction II	German	WS	2.0	2.0
855311	PJ	Spatial Planning Project	German	WS	5.0	7.5
874302	PJ	Landscape Planning Project	German	WS or SS	5.0	7.5

§ 7 Specialisation Landscape Design and Public Space Design

Number	Type	Name	Language	Semester	SST	ECTS
Compulsory Courses in Specialisation Landscape Design and Public Space Design						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
854319	PJ	Project with Field Trips of Landscape Planning	English	SS	6.0	9.0
854325	VS	Planning Instruments of Landscape Planning and Open Space Design	German	WS	2.0	3.0
854328	EX	Landscape Planning - Excursions	German	SS	2.0	1.0
Module 1: Landscape Design						
854300	VU	History of Landscape Planning	German	T2, WS	2.0	3.0
854301	PJ	Sectoral Planning and Landscape Planning	German	WS	3.0	4.5
854302	SE	Vegetation – and Land Use – Structure as Indicators in Landscape Planning	German	SS	5.0	7.5
854303	VO	Regional Economy and Subsistence Culture	German	T2, WS	2.0	3.0
854304	PJ	Regional Economy and Subsistence Culture	German	T2, SS	2.0	3.0
854305	VU	Special Aspects of Landscape Planning	German	T2, WS	2.0	3.0
854306	VS	Gender Mainstreaming in Planning and Professional Practice	German	WS	3.0	3.0
854307	SE	Feminist Criticism on Nature Sciences	German	T2, WS	2.0	4.5

854329	PJ	Landscape Structures and Mapping for Landscape Planning	German	SS	3.0	4.5
854330	VS	Landscape Planning and Implementation Strategies	German	SS	3.0	4.5
855102	VO	Land Consolidation and Land Development	German	WS	2.0	2.0
855305	VU	Land Management	German	SS	2.0	3.0
857302	UE	Aerial Photo Interpretation	German	SS	1.0	1.5

Module 2: Public Space Design						
852301	VU	Social Sciences applied to Landscape Architecture	German	SS	2.0	3.0
852302	PJ	Contemporary Landscape Architecture	German	WS	4.0	6.0
854308	SE	Reading and Interpreting of Texts on Landscape Planning Topics	German	WS	3.0	4.5
854309	VU	Participatory Processes in Landscape Planning	German	WS	2.0	3.0
854310	SE	Subsistence and Open Space Planning	German	WS	3.0	4.5
854311	PJ	Site Planning in Landscape Planning	German	WS	2.0	3.0
854312	PJ	Communal Planning and Landscape Planning	German	T2, SS	3.0	4.5
854313	VU	Women in the History of Landscape Design and Gardening	German	WS	2.0	3.0
854314	EX	Feminist Views on Town and Country	German	T2, SS	2.0	3.0
854320	SE	Feminist Basics for Landscape Planning and Open Space Planning	German	WS	2.0	3.0
874304	PJ	Project to Landscape Construction, Vegetation Engineering and Soil Bioengineering	German	SS	4.0	6.0
874305	VU	Bidding and Office Organisation	German	WS	2.0	3.0

Module 3: Cultivation and Land Use						
731312	VO	Agrarian History	German	WS	2.0	2.0
732314	VX	Forest History	German	WS	2.0	3.0
853301	VO	Strategies and Instruments of Recreational Planning	German	WS	2.0	3.0
853303	PJ	Nature Conservation Related Planning	German	WS	3.0	4.5
853309	VU	GIS in Landscape - Planning	German	WS	3.0	4.5
854315	VS	Alpine Landscape Planning	German	WS	2.0	3.0
854316	SE	LA 21 - Processes and Sustainable Urban and Regional Development	German	T2, SS	3.0	4.5
854321	VO	Peasant Economy for Sustained Economic Growth	German	WS	2.0	2.0
854322	SE	Peasant Economy for Sustained Economic Growth	German	WS	2.0	3.0
855303	VU	Spatial Impact Assessment	German	SS	2.0	3.0
856313	VU	Road Planning and Environmental Protection	German	WS	2.0	2.0

913309	VU X	Innovative Silvicultural Concepts - Theory and Practice	German	SS	3.0	4.5
933302	VS	Protection of Natural Resources by Organic Farming	English	T2, WS	2.0	3.0
952323	VU	Women in Rural Gardening and Agriculture	German	T2, WS	2.0	3.0

§ 8 Specialisation Landscape Architecture and Landscaping

Number	*Type*	*Name*	*Language*	*Semester*	*SST*	*ECTS*
Compulsory Courses in Specialisation Landscape Architecture and Landscaping						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
852300	EX	Field Trip to Landscape Architecture II	German	SS	2.0	3.0
852303	PJ	Landscape Architecture and Implementation Planning	German	WS or SS	8.0	12.0
874314	EX	Field Trip to Soil Bioengineering	German	SS	2.0	3.0
874317	EX	Field Trip to Landscape Construction and Science of Building Materials	German	WS & SS	1.0	3.0
Module 4: Theory and Conceptual Design						
852301	VU	Social Sciences applied to Landscape Architecture	German	SS	2.0	3.0
852302	PJ	Contemporary Landscape Architecture	German	WS	4.0	6.0
852305	VU	Landscape Architecture in Urban Planning	German	WS	3.0	4.5
852306	VO	History of Garden Art	English	WS	2.0	2.0
852307	VU	Preservation of Historic Gardens	German	SS	2.0	3.0
852308	VS	Aesthetics and Consciousness of Space	German	SS	3.0	4.5
852313	VU	Maintenance and Development of Open Spaces	German	T2, WS	2.0	3.0
852315	VS	Design Theory in Landscape Architecture	English	SS	2.0	3.0
853314	VU	Digital Visualisation Techniques	German	WS or SS	2.0	3.0
854306	VS	Gender Mainstreaming in Planning and Professional Practice	German	WS	3.0	3.0
854325	VS	Planning Instruments of Landscape Planning and Open Space Design	German	WS	2.0	3.0
Module 5: Design and Detailed Planning						
852309	PJ	CAD applied to Landscape Architecture Project	German	SS	3.0	4.5
852310	VU	Sketching	German	SS	2.0	3.0
852311	SE	Modeling	German	WS	2.0	3.0
852316	PJ	Global Design Studio	English	WS	4.0	6.0
852317	PJ	Design Aspects in Construction Details	German	WS	4.0	6.0
874304	PJ	Project to Landscape Construction, Vegetation Engineering and Soil	German	SS	4.0	6.0

		Bioengineering				
874318	VU	Handwork and Construction	German	T2, WS	4.0	6.0
892319	VU	Building Materials	German	WS	2.0	3.0
874320	VU	Technical Detailed Planning	German	SS	3.0	4.5
952321	PJ	Project: Planting Design	German	SS	3.0	4.5

Module 6: Management of Construction						
874325	VU	Irrigation Management	German	WS	1.0	2.0
852312	VO	The Legal Environment and Standardization in Landscape Architecture	German	WS	1.0	1.5
874305	VU	Bidding and Office Organisation	German	WS	2.0	3.0
874306	VU	Management	German	SS	2.0	3.0
874307	VU	Care and Assessment of Trees	German	WS	3.0	4.5
874308	VU	Management of Projects	German	T2, WS	2.0	3.0
874309	VU	Selected Issues to Soil Bioengineering	German	T2, WS	2.0	3.0
874310	PR	Practical Course to Soil Bioengineering Techniques	German	SS	2.0	3.0
874311	VU	Earth - Moving and Foundation Work in Landscaping	German	WS	2.0	3.0
874312	UE	Seed Identification Course	German	WS	1.0	1.5
874315	VO	The Nature of Tree Nursery	German	WS	2.0	2.0
874321	VO	Ecological and Economic Issues in Construction Engineering	German	SS	1.0	1.5
874323	VU	Selected Issues to Vegetation Engineering	German	T2, WS	2.0	3.0
874326	VU	Lighting Technology	German	T2, WS	3.0	4.5
874331	VU	Management of Construction and Building Supervision and Planning/Building Laws	German	WS	3.0	4.5

§ 9 Specialisation Applied Nature Conservation and Landscape Maintenance

Number	***Type***	***Name***	***Language***	***Semester***	***SST***	***ECTS***
Compulsory Courses in Specialisation Applied Nature Conservation and Landscape Maintenance						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
831305	VU	Rating and Mapping of Nature Conservation Aspects in Landscape Planning	German	WS	2.0	3.0
832302	VO	Human Dimensions in Wildlife Research & Management	English	SS	1.0	1.0
853109	VO	Nature- and Landscape Conservation Basic Methods and Instruments	German	SS	2.0	2.0
853303	PJ	Nature Conservation Related Planning	German	WS	3.0	4.5
853323	EX	Excursion - Nature Conservation Related Planning	German	SS	2.0	3.0

Module 7: Basics and Tools						
732303	VO	Nature Protection - and Environmental Law	German	SS	2.0	3.0
812326	VO	General Ecology of Aquatic Environments	German	WS	2.0	3.0
814302	VU	Bioclimatology	German	WS	2.0	3.0
831303	SE	Methods of Species and Habitat Conservation	German	WS	2.0	3.0
831306	VU	Urban Ecology	German	SS	2.0	3.0
831307	EX	Austrian Habitats	German	T2, SS	3.0	4.5
833109	VS	Biodiversity of Animals in Cultural Landscapes	German	WS	2.0	3.0
833308	VU	Selected Animals of Central European Landscapes	German	SS	4.0	4.0
853301	VO	Strategies and Instruments of Recreational Planning	German	WS	2.0	3.0
853306	VU	Environmental Impact Assessment	German	WS	2.0	3.0
853308	PJ	Landscape Ecology Field Course	German	SS	3.0	4.5
855102	VO	Land Consolidation and Land Development	German	WS	2.0	2.0
856313	VU	Road Planning and Environmental Protection	German	WS	2.0	2.0

Module 8: Landscape Conservation						
731349	VO	Management of Rural Development	German	WS	2.0	3.0
731380	VO	Sustainable Development I	German	WS	2.0	3.0
812301	UE	Practices in Ecological River Landscape Management	German	SS	1.0	1.5
812321	VO	Ecological River landscape management	German	SS	1.0	1.5
831308	VX	Ecology and Sociology of Grassland	German	T2, SS	3.0	4.5
832301	VO	Wildlife Management Issues in Protected Areas in Central Europe	German	WS	1.0	1.5
833301	VO	Soil Ecology	German	WS	2.0	3.0
853318	VO	Cultural Landscape and Ecotourism	German	WS	1.0	1.0
853319	VU	Leisure and Recreation Planning	German	SS	2.0	3.0
854316	SE	LA 21 - Processes and Sustainable Urban and Regional Development	German	T2, SS	3.0	4.5
854321	VO	Peasant Economy for Sustained Economic Growth	German	WS	2.0	2.0
854322	SE	Peasant Economy for Sustained Economic Growth	German	WS	2.0	3.0
912116	VU	Forest Ecology	German	SS	3.0	3.0
913315	VS	Integrated Landscape Management	German	WS	4.0	6.0

Module 9: Assessment, Design and Implementation						
731317	VO	Applied Nationalpark Planning	German	SS	2.0	2.0
831310	EX	Great Botanical-Ecological Excursion	German	SS	4.0	6.0
834300	SE	Nature Conservation in Practice	German	SS	3.0	4.5
853305	PJ	Nature - and Recreation Planning	German	WS	4.0	6.0
853309	VU	GIS in Landscape - Planning	German	WS	3.0	4.5
853310	VU	Applied Landscape Management	German	SS	3.0	4.5
853311	VS	Programs and Subsidies for Landscape Development	German	WS	2.0	3.0
853312	VU	Impact Mitigation Planning (Landscape Orientated Integration of Technical Infrastructure)	German	WS	2.0	3.0
855102	VO	Land Consolidation and Land Development	German	SS	2.0	2.0
874313	UE	Willow Identification Course	German	WS & SS	1.0	3.0
874314	EX	Field Trip to Soil Bioengineering	German	SS	2.0	3.0

§ 10 Specialisation Recreation Design

Number	*Type*	*Name*	*Language*	*Semester*	*SST*	*ECTS*
Compulsory Courses in Specialisation Recreation and Design						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
832302	VO	Human Dimensions in Wildlife Research & Management	English	SS	1.0	1.5
853313	VO	Tourism as a Factor for Rural Development	German	SS	2.0	2.0
853319	VU	Leisure and Recreation Planning	German	SS	2.0	3.0
853320	EX	Excursion - Recreation Planning	German	SS	1.0	1.5
853325	VO	Introduction in Leisure and Tourism Theory	German	WS	2.0	2.0
855309	VU	Tourism and Leisure Planning	German	WS	2.0	3.0

Module 10: Design and Management of Parks and Protected Areas						
731317	VO	Applied Nationalpark Planning	German	SS	2.0	2.0
832301	VO	Wildlife Management Issues in Protected Areas in Central Europe	German	WS	1.0	1.5
853109	VO	Nature- and Landscape Conservation Basic Methods and Instruments	German	SS	2.0	2.0
853301	VO	Strategies and Instruments of Recreational Planning	German	WS	2.0	3.0
853303	PJ	Nature Conservation Related Planning	German	WS	3.0	4.5
853305	PJ	Nature- and Recreation Planning	German	WS	4.0	6.0
853310	VU	Applied Landscape Management	German	SS	3.0	4.5
853311	VS	Programs and Subsidies for Landscape Development	German	WS	2.0	3.0

853321	VU	Monitoring and Modelling of Visitor Flows	German	WS	2.0	3.0
913315	VS	Integrated Landscape Management	German	WS	4.0	6.0

Module 11: Regional Planning, Cultivated Landscape and Tourism						
731318	VU	Regional and Environmental Economics	German	SS	3.0	4.5
731342	SE	Core Seminar Rural Development	German	WS	2.0	3.0
731337	VO	Methods and Tools for Rural Management	German	WS	2.0	3.0
853304	VU	Eco-Counseling	German	WS	3.0	4.5
853306	VU	Environmental Impact Assessment	German	WS	2.0	3.0
853309	VU	GIS in Landscape – Planning	German	WS	3.0	4.5
853318	VO	Cultural Landscape and Ecotourism	German	WS	1.0	1.0
854316	SE	LA 21 - Processes and Sustainable Urban and Regional Development	German	T2, SS	3.0	4.5
856313	VU	Road Planning and Environmental Protection	German	WS	2.0	3.0
855303	VU	Spatial Impact Assessment	German		2.0	3.0

Module 12: Recreational Infrastructure Design						
852308	VS	Aesthetics and Consciousness of Space	German	SS	3.0	4.5
852317	PJ	Design Aspects in Construction Details	German	WS	4.0	6.0
853312	VU	Impact Mitigation Planning (Landscape Orientated Integration of Technical Infrastructure)	German	WS	2.0	3.0
853314	VU	Digital Visualisation Techniques	German	WS or SS	2.0	3.0
853322	VU	Recreation Infrastructure Planning	German	SS	3.0	4.5
855314	VO	Construction and Landscape	German	WS	2.0	2.0
874305	VU	Bidding and Office Organisation	German	WS	2.0	3.0
874320	VU	Technical Detailed Planning	German	WS	3.0	4.5
874326	VU	Lighting Technology	German	T2, WS	2.0	3.0

§ 11 Specialisation Water Management and Fluvial Topography

Number	***Type***	***Name***	***Language***	***Semester***	***SST***	***ECTS***
Compulsory Courses in Specialisation Water Management and Fluvial Topography						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
812301	UE	Practices in Ecological River Landscape Management	German	SS	1.0	1.5
812311	VO	European Water Legislation - Water Framework Directive	German	WS	1.0	1.0
812320	VO	Hydrobiology II	German	SS	1.0	1.5
812321	VO	Ecological River Landscape Management	German	SS	1.0	1.5
812324	VO	Applied Running Water Ecology	German	WS	1.0	1.5

812328	VX	Advanced River landscape planning	German	SS	2.0	3.0
816101	VO	Water Resources Management, Hydrology and River Basin Planning	German	WS	3.0	3.0

Module 13: Water Ecology and Assessment						
812304	VO	Ecology and Taxonomy of Macrozoobenthic Invertebrates	German	WS	1.0	1.0
812305	UE	Taxonomy of Macrozoobenthic Invertebrates	German	WS	1.0	1.5
812306	PR	Practical Work in Fish Ecology	German	SS	3.0	4.5
812307	VO	Methods of Fish Biology	German	SS	1.0	1.0
812308	UE	Methods of Fish Biology	German	SS	2.0	3.0
812309	VX	Historical Data on the Development and Biology of Rivers	German	SS	1.0	1.5
812325	UE	Practices in Applied Running Water Ecology	German	SS	1.0	1.5
812326	VO	General Ecology of Aquatic Environments	German	WS	2.0	3.0
812329	VO	Selected Chapters in Ecology of Aquatic Habitats	German	WS	2.0	3.0
812368	UE	Water Quality Assessment	German	WS	2.0	1.5
812369	VO	Water Quality Assessment	German	WS	1.0	1.5
812373	VO	Ecology of Native Fish Species	German	SS	2.0	2.0
831301	VU	Methods of Species and Biotope Conservation	German	SS	2.0	3.0
831305	VU	Rating and Mapping of Nature Conservation Aspects n Landscape Planning	German	WS	2.0	3.0
833301	VO	Soil Ecology	German	WS	2.0	3.0
812302	EX	General Hydrobiology	German	SS	2.0	3.0

Module 14: Related Disciplines						
811332	VU	Water Resources Management in Developing Cooperation	English	SS	2.0	3.0
812312	VU	Multi-Scale Modelling of Aquatic Ecosystems	English	WS	2.0	3.0
814302	VU	Bioclimatology	German	WS	2.0	3.0
815300	VU	Hydromechanics	German	WS	2.0	3.0
816304	VO	Possible Impacts of Climate Change on Water Resources	German	T2, SS	2.0	3.0
816309	VU	Computer Based River Modelling	German	WS	2.0	3.0
816317	VO	Sediment Regime and River Morphology	German	SS	2.0	3.0
851300	VS	Statistical Data Analysis with SPSS	German	WS or SS	2.0	3.0
855303	VU	Spatial Impact Assessment	German	SS	2.0	3.0
857302	UE	Aerial Photo Interpretation	German	SS	1.0	1.5

874310	PR	Practical Course to Soil Bioengineering Techniques	German	SS	2.0	3.0
874314	EX	Field Trip to Soil Bioengineering	German	SS	2.0	3.0

Module 15: Design and Management						
731380	VO	Sustainable Development I	German	WS	2.0	3.0
812300	VO	Strategies for Implementation of Ecological Targets in Project Management	German	WS	2.0	2.0
812323	SE	Seminar on Advanced River Landscape Planning	German	WS	2.0	3.0
812330	VO	Selected Topics of Aquatic Ecology and River Management	English	SS	2.0	3.0
816308	VO	Decision Support for Solving Conflicts between Ecology and Engineering	German	WS	2.0	3.0
			German			
816318	VO	Monitoring in River Engineering	German	SS	2.0	3.0
816328	UE	Water Resources Planning and Management	German	WS	1.0	1.5
834301	SE	Mediation	German	SS	2.0	3.0
853306	VU	Environmental Impact Assessment	German	WS	2.0	3.0
871192	VX	Torrent and Avalanche Control	German	SS	3.0	3.0
874305	VU	Bidding and Office Organisation	German	WS	2.0	3.0
874308	VU	Management of Projects	German	T2, WS	2.0	3.0

§ 12 Specialisation Development of Rural Areas

Number	***Type***	***Name***	***Language***	***Semester***	***SST***	***ECTS***
Compulsory Courses in Specialisation Development of Rural Areas						
100	SE	Master's Thesis Seminar	German	WS or SS	2.0	3.0
855303	VU	Spatial Impact Assessment	German	SS	2.0	3.0
855304	VU	Sustainable Rural Development	English	WS	2.0	3.0
855305	VU	Land Management	German	SS	2.0	3.0
855308	VO	Politics of Spatial and Regional Planning	German	WS	2.0	3.0
855315	EX	Excursion in Spatial Planning	German	SS	2.0	3.0

Module 16: Methods of Planning						
731349	VO	Management of Rural Development	German	SS	2.0	3.0
731360	SE	Management of Rural Development	German	SS	1.0	1.5
853301	VO	Strategies and Instruments of Recreational Planning	German	WS	2.0	3.0

854306	VS	Gender Mainstreaming in Planning and Professional Practice	German	WS	3.0	3.0
855309	VU	Tourism and Leisure Planning	German	WS	2.0	3.0
855312	VO	Spatial Planning in Alpine Areas	German	SS	2.0	3.0
855316	SE	Spatial Development Seminar	German	SS	1.0	1.5
855317	VO	Rural Development Planning	German	SS	2.0	3.0
855318	VU	Managing Rural Development Processes	German	SS	2.0	3.0
855319	VU	Methods of Spatial Planning	German	T2, WS	2.0	3.0
856304	SE	Design of a Transport Plan	German	WS	2.0	3.0
856313	VU	Road Planning and Environmental Protection	German	WS	2.0	2.0
857308	VU	Geo Data for GIS Application in Austria	German	WS	2.0	3.0

Module 17: Rural Development						
731312	VO	Agrarian History	German	WS	2.0	2.0
732314	VX	Forest History	German	WS	2.0	3.0
853303	PJ	Nature Conservation Related Planning	German	WS	3.0	4.5
854301	PJ	Sectoral Planning and Landscape Planning	German	WS	3.0	4.5
854303	VO	Regional Economy and Subsistence Culture	German	T2, WS	2.0	2.0
854304	PJ	Regional Economy and Subsistence Culture	German	T2, SS	2.0	3.0
854316	SE	LA 21 - Processes and Sustainable Urban and Regional Development	German	T2, SS	3.0	4.5
855102	VO	Land Consolidation and Land Development	German	WS	2.0	2.0
855301	UE	Land Consolidation and Land Development	German	SS	1.5	2.5
855314	VO	Construction and Landscape	German	WS	2.0	2.0
855320	PJ	Rural Development Project	German	SS	4.0	6.0

Module 18: Socio-Economics and Management of Resources						
731314	SE	Sustainable Development II	German	WS	2.0	3.0
731318	VU	Regional and Environmental Economics	German	SS	3.0	4.5
734323	VU	Business Management	German	WS	2.0	3.0
834302	VO	Precautionary Environmental Management	German	WS	2.0	2.0
834303	SE	Precautionary Environmental Management - Seminar	German	SS	2,0	3.0
854321	VO	Peasant Economies and Sustainable Development	German	SS	2.0	2.0
854322	SE	Peasant Economies and Sustainable Development	German	SS	2.0	3.0
874305	VU	Bidding and Office Organisation	German	WS	2.0	3.0
931143	VX	Energy from Agricultural and Forestry Raw Materials	German	SS	3.0	4.5
933111	VS	Organic Farming and Regional	German	SS	2.0	3.0

		Development				
933302	VS	Protection of Natural Resources by Organic Farming	English	T2,WS	2.0	3.0
731380	VO	Sustainable Development I	German	WS	2.0	3.0

§ 13 Free Optional Courses

In the course of the Master degree programme Landscape Architecture and Planning 7 semester hours (11 ECTS - points) must be completed successfully. These can be chosen from the complete course programme offered by all recognised national and international universities.

§ 14 Thesis for the Master Degree

(1) The thesis for the Master degree is an integral part of the Master degree programme.

(2) The scientific subject of the graduation paper has to be chosen from a subject relevant and related to the Master degree programme Landscape Architecture and Planning.

(3) The copyright act, BGBl. Nr. 111/1936 has to be respected while working on the thesis for the Master degree and its supervision.

(4) It has to be both, possible and reasonable for the student to work on and finish the thesis for the Master degree within six months as far as the assignment of tasks is concerned.

(5) The supervision and grading of the candidate's work are incumbent upon the university professor who has assigned the chosen subject for the graduation paper.

(6) At the end of the Master degree programme the thesis has to be handed in at the dean's office.

(7) 30 ECTS - points are granted for the thesis for the Master degree.

§ 15 Graduation Requirements

(1) The Master degree graduation consists of two parts.

(2) The first part of the Master degree graduation comprises those courses stated under § 6 to § 12 to the extend of 63 semester hours. These 63 semester hours are divided into 20 compulsory hours, 36 hours of optional courses and 7 hours of free optional courses. The first part of the Master degree examination is concluded upon the successful completion of all these courses.

(3) Evaluation of courses takes place as course exams. Course examination may be oral and / or written, as defined by the lecturer. According to UniG 2002 at least three exam dates have to be fixed. Special attention has to be paid to blocked courses.

(4) Free Optional Courses: 7 semester hours have to be completed successfully as free optional courses. These can be chosen from the complete course programme offered by all recognised national and international universities. Students are advised to take study specific courses stated in § 7 to § 12.

(5) Courses held in foreign languages: students are recommended to attend study specific courses held in foreign languages of at least 4 semester hours.

(6) The second part of the Master degree graduation is an oral and commissioned exam which has to include an exam taken from the subject the topic of the thesis for the Master degree was taken from with content relation to the Master degree thesis. And from one additional subject which can be regarded as a focus of the Master degree programme. The registration to the second part of the Master degree graduation requires:

- Positive completion of the exams according to the courses under § 15 (2)
- Positive evaluation of the Master degree thesis

(7) According to the European Credit Transfer System (ECTS) the individual amount of ECTS - points accredited to each course is governed by § 6 to § 12.

§ 16 Commencement

The Master degree programme Landscape Architecture and Planning comes in force on October 1, 2004.

§ 17 Transitional Regulations

(1) Regular students, who are permitted to follow the diploma degree programme according to their degree course scheme on the basis of the UniStG from October 1 2001, may continue to follow their degree programme.

(2) From the effective date of the new degree programmes for Bachelor and Master degrees, these students are permitted to complete their degree within the legal duration period, with the addition of one extra semester, according to §80 b (2) UniStG. Furthermore, students are permitted to change their old degree course scheme to the new one by means of an irrevocable statement. This statement has to be sent for the attention of the University Head Office.

(3) For regular students, who started their studies before the commencement of the degree course scheme on the basis of the UniStG and who continue their studies according to the requirements according to §80 paragraph 2-4 UniStG there is no change in their transitional regulations.

(4) For students continuing their degree according to a diploma degree programme there is an equivalence list which shows which courses or groups of courses from the offer of the Master degree programme of the respective diploma degree programme are equivalent to the Master degree programme. Successfully completed exams according to the old degree course scheme are accredited according to this equivalence list. All modules of the Master degree study programme are also accredited as modules of the Diploma study programme.