



## Semester Package - BIOECONOMY

University of Natural Resources and Life Sciences, Vienna



### Master Courses - Winter Term

Course	Course Number	ECTS	Prerequisite
<a href="#">Cereal technology</a>	752327	2	Basics of inorganic, organic chemistry and biochemistry, microbiology and process engineering (expected learning outcomes and achieved competences based on 217 Food- and Biotechnology, UG2002/13U, Bachelor curriculum).
<a href="#">Applied Quality Management Practical Course</a>	754319	5	-
<a href="#">Medicinal and aromatic plants</a>	951316	3	-
<a href="#">Soils and Global Change</a>	911327	4	-
<a href="#">Innovations for Sustainable Forest Management</a>	732337	4	-
<a href="#">Technology Assessment</a>	915344	3	Additionally attending the lecture 915.315 Systems Engineering in timber harvest is recommended!
<a href="#">Global Waste Management I</a>	813300	3	-
<a href="#">Chemistry and technology of sustainable resources</a>	774301	2	Basic knowledge of chemistry
<a href="#">Aspects of product quality in plant production</a>	957310	4	Basic knowledge of crop production, plant breeding and chemistry
<a href="#">Wood and Fibre Quality</a>	891338	2	-
<a href="#">Wood-Industrial Processes: Wood- and Fibre-based Materials</a>	891327	2	-
<a href="#">Computer Simulation in Energy and Resource Economics</a>	731369	3	-
<a href="#">Processes in Enzyme Technology</a>	752332	2	-



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Course	Course Number	ECTS	Prerequisite
<a href="#">Plant and environment</a>	831312	3	-
<a href="#">Mechanical and thermal process technology II</a>	893303	3	Lecture in Mechanical and Thermal Process Technology I (LVA 893.122)
<a href="#">Composite</a>	891333	2	It is expected that students intending to take the exam in this lecture are familiar with the lectures 'Natural Fibers', 'Wood Physics', and 'Natural Fiber Materials and Technologies
<a href="#">Engineered wood products</a>	891334	2	Basic knowledge in mechanics and statistics
<a href="#">Renewable energy resources</a>	893311	3	Fundamentals of physics and thermodynamics
<a href="#">Applied measurement and control systems</a>	893308	3	Basic knowledge on measurement and control technology (VO MRT I)
<a href="#">Practical course in energy engineering</a>	893306	3	Basic knowledge in energy technologies, but also in the fields of mechanics, fluid mechanics, thermodynamics and measurement engineering. Following LVA's are recommended for the practical course: 1) Process engineering I and II 2) Energy and environment engineering 3) Energy engineering
<a href="#">Crop production systems in organic agriculture</a>	933307	3	Basic knowledge in organic plant production (crop rotation)
<a href="#">Innovation processes in the forest-based bioeconomy</a>	735344	2	Familiarity with good practice in methods of scientific work is strongly recommended
<a href="#">Research design</a>	891325	2	Basics in statistics, interest and experience in research and experimental working
<a href="#">Wood materials modification</a>	891336	2	Solid knowledge in wood physics, wood chemistry, and wood anatomy is required to follow this course.
<a href="#">Post-harvest technology</a>	931315	2	principles of thermodynamics
<a href="#">Product design</a>	891347	2	-



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### Master Courses - Summer Term

Course	Course Number	ECTS	Prerequisite
<a href="#">Food Biotechnology</a>	752324	5	Basic knowledge of microbiology, biochemistry and molecular biology
<a href="#">Atmospheric pollution and climate change</a>	814101	3	-
<a href="#">Intercultural communication</a>	735336	3	-
<a href="#">Resource and Environmental Economics</a>	731324	3	-
<a href="#">Global Waste Management II</a>	813301	3	-
<a href="#">Forest soil biology</a>	911348	3	-
<a href="#">Agricultural engineering in plant production - seminar</a>	931300	4	The prerequisite for participation in the course is a solid foundation in agricultural engineering and agricultural production, as well as in plant production.
<a href="#">Soil protection</a>	911301	3	Fundamentals of soil science (at least bachelor level, ideally the level after passing the exam of 911.014 - Soil Science Refresher)
<a href="#">Mechanical and thermic process engineering</a>	893122	5.5	-
<a href="#">Energy engineering</a>	893360	3	Physics including thermodynamics (e.g. VO 892.104 + VO 893.103 or VO 892.105 + VO 893.112)
<a href="#">Processing systems</a>	891341	2	-
<a href="#">Adhesive technology</a>	891343	2	-
<a href="#">Advanced planning systems in forest based industries</a>	734328	3	Principles of production and operations management
<a href="#">Project management</a>	915327	3	None. Beginners as well as students who bring basic project management knowledge are welcome.
<a href="#">Biochemical Technology</a>	752340	2	Basic knowledge of microbiology and biochemistry (main metabolic pathways in microorganisms) as well as in biotechnology (cultivation of microorganisms, fermentation technology)
<a href="#">Resource efficiency and bioeconomy of bio-based materials</a>	970020	3	General understanding of the forest-based industry sector



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**Master Courses - Winter or Summer Term**

Course	Course number	ECTS	Prerequisite
<a href="#">Analysis of Bio-Hazards in Foods</a>	970301	3	Basic knowledge of analytical chemistry, in particular of instrumental analytical chemistry.

**How to look for courses:**

[boku.ac.at/int-in-boku-howtolookforcourses-en.html](http://boku.ac.at/int-in-boku-howtolookforcourses-en.html)

**For more information please contact**

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Updated Mar 2021