



## THESE MODULES WILL BE STUDIED

	Compulsory Modules	Personal Profiling Modules	Elective Modules **
1. Sem. (Winter)	P01 Bioeconomy and Regional Development	P02a Basics of Business Administration I P02b Economics – Microeconomics P02c Basics of Biology and Biochemistry I *	Biotechnology, Microbiology, Structural Analysis of Biological Macromolecules, Proteomics and Microbiology, Protein Structure/Interactions, Bioactive Molecules of Nature, Plant Physiology, Landscape Ecology and Economics, Mathematics and Statistics, Economic Geography, Rural Regions, Regional Development, Marketing, Finance, Markets/Market Failure, Location Planning, Health Care Management, Endogenous Growth, Regional Economics
2. Sem. (Summer)		P03a Basics of Business Administration II P03b Economics – Macroeconomics P003c Basics of Biology and Biochemistry II	
3. Sem. (Winter)	P04 Biotechnology P05 Entrepreneurship P06 Case Study Interdisciplinary Report P07 Internship		
4. Sem. (Summer)	Master's Dissertation		

## CONTACT AND INFORMATION

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Consultations are possible outside of office hours.



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# BIOECONOMY

## Master of Science



The Draw of  
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## YOU SHOULD BRING THE FOLLOWING SKILLS WITH YOU

This study course is aimed mainly at graduates with a bachelor's degree in a subject from the fields of biochemistry, biology, pharmacy, geography, business administration, economics, agriculture and forestry, or similar. Graduates from similar degree courses can also be granted admission from the examination board following an individual assessment (based on the Transcript of Records). Applicants require proven English language skills at level B2 of the 'Common European Framework of Reference for Languages' or alternatively, proof of at least seven years of English lessons at school.

## THIS SUBJECT IS ABOUT

Bioeconomy is a cross-sector economic concept, which aims to shift the dominance of fossil raw materials to biogenic alternatives. By using innovative procedures, bioeconomy endeavours to increase the creation of value in local regions, as well as the amount of sustainable industry, and is linked to larger scale transformation processes.

The international degree course M.Sc. Bioeconomy provides its students with in-depth knowledge and practical skills, training experts, who will be able to advance, develop, implement and spread the transformation process in multiple sectors of society, commerce, industry, politics, and research. They learn how to consider regional, national and global perspectives and how to develop suitable, efficient and sustainable schemes for using biogenic resources.

## GRADUATES FROM THIS MASTER'S DEGREE COURSE

The degree course qualifies students to take on demanding analytical tasks in research and practice at private and public sector employers, or to found their own companies. The main aim is to provide students with the subject expertise for research-related tasks and managerial positions. Students gain qualifications for future employment in the private sector, in particular, for positions in the field of biotechnology, but also in the pharmaceutical and chemical industry, as well as consultancies. In the public sector, graduates are able to take on positions in business and regional development agencies, as well as in research at higher education and non-university research institutes. Furthermore, they can gain employment at associations, international organisations and non-governmental organisations.

## GENERAL INFORMATION ON THE DEGREE COURSE

The main aim of the degree's teaching is to convey fundamental aspects of bioeconomy with a focus on coastal and rural regions in the context of the Baltic Sea region. In the field of natural sciences, teaching focuses on molecular biotechnology. Furthermore, students receive tuition on relevant topics related to marine biotechnology, including new usage concepts for plant-based biomass. The inter- and transdisciplinary training is complemented by teaching contents from subject areas in the fields of business studies, the humanities and social sciences. The degree course aims to convey both the basic principles of bio-based sustainable industry and central bio-based value chains, as well as the fundamentals of decision making from a business administration and economics perspective. Based on practical examples, students learn about requirements for founding and managing enterprises, innovations, commercial exploitation and sustainability, also receiving the required background knowledge on relevant legal provisions and business policies.

## OUR KEY FIELDS OF RESEARCH

In accordance with the individual specialisation and previous knowledge of the students, the degree course's spectrum of methods is diverse and ranges from biotechnological and microbiological laboratory methods, to field methods and methods used in empirical economic and social science research. Interdisciplinary collaboration skills are tested during the Case Study, in which students with existing knowledge from various disciplines jointly solve a practice-based problem. In the master's dissertation, students consolidate their academic methodology by independently tackling a complex issue. The internship provides students with insights into future professions in the field of bioeconomy. Furthermore, students gain practical skills and knowledge for founding own companies.

