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TRANSLATION OF

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Administrative Bulletin of the Public Sector and the Foundation

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— Subject-specific Annex 5.15d Sustainability Science: Entrepreneurship, Agency and Leadership to the Framework Examination Regulations (FER) for the Master's Programs at the Leuphana Graduate School of the Leuphana University of Lüneburg

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Subject-specific Annex 5.15d Sustainability Science: Entrepreneurship, Agency and Leadership to the Framework Examination Regulations for the Master's Programs at the Leuphana Graduate School of the Leuphana University of Lüneburg

Based on § 41 para. 1 sentence 1 of the Lower Saxony Higher Education Act (NHG) in the version of February 26, 2007 (Nds. GVBl. p. 69), last amended by Art. 7 of the Act of March 23, 2022 (Nds. GVBl. p. 218), the Faculty Council of the Faculty of Sustainability on November 08. 2023 adopted the following Subject-Specific Annex 5.15d to the Framework Examination Regulations for the Master's Programs at the Graduate School of Leuphana University of Lüneburg of September 17, 2008 (Leuphana Gazette No. 15/08 of October 06, 2008), last amended on April 19, 2023 (Leuphana Gazette No. 49/23 of June 16, 2023). The Presidential Board approved the subject-specific annex in accordance with § 44 para. 1 sentence 3 and § 37 para. 1 sentence 3 no. 5b) NHG on December 13, 2023.

Section I

To §2 FER, Aim of the study programme, purpose of the examination

Professional Competences:

Successful graduates of the master's degree

- have a profound and reflected understanding of the most important theories, methods and discourses in sustainability science.
- have in-depth knowledge of current concepts, methods and research projects in the fields of sustainable entrepreneurship, sustainability behavior and sustainability transformation research at the individual and organizational level with the two interacting focuses of (i) individual change behavior and psychology of sustainability, and (ii) management of sustainability transformations of organizations through entrepreneurship.
- possess an in-depth understanding of drivers and barriers to individual and organizational sustainability transformation.
- are able to analyze issues and problems in the implementation of sustainability goals in companies, in the public sector as well as in civil society and to structure and drive solution processes with the participation of relevant stakeholders.
- know methods and concepts of inter- and transdisciplinary research and are able to apply them in international and national working contexts and to identify, process and solve sustainability-relevant questions with experts from different disciplines as well as practical actors.

Personal Competences:

Successful graduates of the master's program are able to

- work responsibly in teams of experts and fruitfully apply current findings of sustainability science in organizations.

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- apply their in-depth knowledge of the intersection of sustainability entrepreneurship, sustainability behavior and sustainability transformation research to systematically analyze complex problem situations, develop participatory approaches to solutions and successfully accompany their implementation.
- to deal with problems in a team with foresight and to lead and take responsibility for heterogenic group processes.
- to represent complex sustainability-related problems and solutions to experts in a transdisciplinary dialogue and to develop them further with them.

TO § 3 FER, Modularisation, study structure and scope, standard period of study

The standard period of study is two years. The scope of study is 120 credit points.

Module overview Master Sustainability Science: Entrepreneurship, Agency and Leadership

(cf. Also the subject-specific Annex 8 Complementary Studies)

Master forum 5 CP	Master thesis 25 CP				
Elective 5 CP	Market Oriented Sustainability Management and Market Transformation 5 CP	Consumers as Agents for Sustainability Development 5 CP	Social Entrepreneurship 5 CP	Elective 5 CP	Complementary studies 5 CP
Transdisciplinary Research Project 10 CP		Introduction II: Individual Change Agency and Psychology 5 CP	Practices of Sustainable Entrepreneurship 5 CP	Elective 5 CP	Complementary studies 5 CP
Sustainability Science 5 CP	Transdisciplinary Research Design 5 CP	Methods 5 CP	Introduction I: Organizational Sustainability Transformation Management and Entrepreneurship 5 CP	Elective 5 CP	Complementary studies 5 CP

	Profile Modules
	Integration
	Electives
	Complementary studies

In the first semester the following modules must be taken:

- Sustainability Science (MA-NaWi-3, 5 CP)
- Transdisciplinary Research Design (MA-Sust-2a, 5 CP)
- Methods (MA-Sust-3, 5 CP)

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- Introduction I: Organisational Sustainability Transformation Management and Entrepreneurship (MA-EAL-1, 5 CP)

as well as one module of the following electives:

- Introduction to Biodiversity and Ecosystem Functions (MA-EBS-1, 5 CP)
- Introduction to Psychology & Sustainability (MA-P&S-2, 5 CP)
- Resources, Materials, Products and Sustainable Chemistry (MA-RMC-1, 5 CP)

the second semester the following modules must be taken:

- Introduction II: Individual Change Agency and Psychology (MA-EAL-2, 5 CP)
- Transdisciplinary Research Project (MA-NaWi-6, 10 CP)
- Practices of Sustainable Entrepreneurship (MA-EAL-3, 5 CP)

as well as one module of the following electives:

- Research Methods: Multivariate Approaches (MA-P&S-1, 5 CP)
- Sustainability Psychology: Research & Application (MA-P&S-7, 5 CP)
- Current Topics of Sustainability Science I (MA-Sust-4, 5 CP)
- Sustainable Corporate Governance & Audit (MA-SAF-5, 5 CP)
- Selected Topics in Psychology (MA-P&S-9, 5 CP)

In the third semester the following modules must be taken:

- Social Entrepreneurship (MA-EAL-6, 5 CP)
- Consumers as Agents for Sustainable Development (MA-EAL-5, 5 CP)
- Market Oriented Sustainability Management and Market Transformation (MA-EAL-4, 5 CP)

as well as two modules of the following electives:

- (Non) Financial Reporting (MA-SAF-2, 5 CP)
- Communication of Scientific Results (MA-NaWi-11b, 5 CP)
- Psychology and the Individual: Self-Regulation and Sustainability (MA-P&S-3, 5 CP)
- Current Topics of Sustainability Science II (MA-Sust-5, 5 CP)

To § 5 FER, Academic degrees

Master of Arts (M. A.)

To § 6 para. 10 FER

The language of teaching and examination is exclusively English.

To § 8 para. 1, Master's thesis

The processing time for the Master's thesis is 5 months.

To § 8 para. 8, Oral examination

There will be an oral examination complementary to the Master's thesis. The grade for the oral examination is be included in the overall grade of the Master's thesis with a proportion of one fifth.

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Modules Master Sustainability Science: Entrepreneurship, Agency and Leadership

Compulsory Modules

Modul	Content	Types of taught components (type and number of courses, CH)	Module requirements	CP	Comments
1st semester					
Sustainability Science (MA-NaWi-3)	Beginning with an overview of the existing theoretical foundations of sustainability science and research, the seminar deals with the historical development, current challenges and future potential of this research field. Key aspects include an examination of coupled human-environment systems, sustainable development, and global change. The interaction of disciplinary, interdisciplinary and transdisciplinary research in sustainability science and the fundamentals of a problem- and solution-oriented research field are also discussed.	1 seminar (1 CH) 1 lecture (1 CH)	Combined assessment	5	English
Transdisciplinary Research Design (MA-Sust-2a)	This module provides the theoretical and epistemological fundamentals of transdisciplinary sustainability research. It introduces integrative approaches to socially-relevant problems, transformative methods of sustainability research, collaboration skills, and team roles. In parallel to the lecture, students begin to familiarize themselves with the strand-specific case (i.e., context, structures and processes, historical development), and explore possible joint research objects.	1 lecture (2 CH) 1 seminar (1 CH)	Combined assessment	5	English
Methods (MA-Sust-3)	Within this module students will gain an overview of the wide array of research methods that are applied in sustainability science. The module will also teach the students to how obtain information on how to learn more about methods, and how to learn new methods and apply these in their specific work. The course is designed to enable students to develop methodological designs with a mixed methods approach. Building on a broad and diverse conceptual basis students will work in smaller groups, thereby learning the collaborative skills necessary to utilise the diverse knowledge of the participants.	1 lecture (3 CH)	Combined assessment	5	English
Introduction I: Organisational Sustainability Transformation Management and Entrepreneurship (MA-EAL-1)	This course provides an introduction to sustainability transformation management and entrepreneurship for organisations. Sustainability transformation management aims to change an existing company fundamentally towards being both sustainable at the organisational level and to contributing effectively to a sustainable market, society and natural environment beyond organisational boundaries. Sustainable entrepreneurship initiates and establishes sustainability transformations at the meso-level of markets, regions, associations, etc. and the macro-level of societies and planetary ecosystems by founding and scaling new business units or independent organisations, which may be profit- or non-profit oriented or hybrid organisations. By discussing processes, actors and methods of sustainability transformation this course offers an overview of approaches, opportunities and limitations to foster sustainable development for and with organisations.	1 lecture (2 CH)	Combined assessment	5	English

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Modul Modul	Inhalt Content	Veranstaltungsformen (Art, Anzahl, SWS) Types of taught components (type and number of courses, CH)	Modulanforderungen und Prüfungsleistung Module requirements	CP	Kommentare Comments
2nd semester					
Transdisciplinary Research Project (MA-NaWi-6)	In this module, students implement the research plan, that they developed in the module 'TD Research Design', and autonomously apply methods of transdisciplinary research. In cooperation with practice partners, they work with different strategies and proposals on the co-production of knowledge and solutions for sustainable development. With the help of regular coaching and input from the lecturers, the students work independently to solve the previously identified case-specific problem and in order to close the identified knowledge gaps in both a scientific and practical manner. At the end of the project re-integration products are finalized and final products publicly presented and discussed.	1 project (4 CH)	Combined assessment	10	English
Introduction II: Individual Change Agency and Psychology (MA-EAL-2)	This lecture presents empirical research on how individuals can participate and actively contribute to a sustainability transformation on economic, political and social levels. To this end, this lecture covers two overarching topics: risk perceptions and related behaviors related to sustainability challenges, as well as sustainable behaviors contributing to sustainability transformations. It will introduce students to relevant theory and empirical findings which aim to explain and predict behaviors by homo sapiens (rather than homo economicus) from psychology and related fields, such as judgment and decision-making research and economics. The lecture ends with a critical discussion how behavioral sciences can become more impactful regarding the policy interventions that address sustainability challenges on individual levels.	1 lecture (2 CH)	Written examination under supervision	5	English
Practices of Sustainable Entrepreneurship (MA-EAL-3)	Students develop their own sustainable business ideas, create business models based on these ideas, and begin to implement a mock-up for their sustainable business ideas. The course thus uses participants ideas on how to address challenges of unsustainability as a starting point. Based on these ideas, students evaluate and practically test in how far these ideas can be implemented in an entrepreneurial manner and simultaneously contribute to sustainable development.	1 seminar (2 CH)	Combined assessment	5	English <i>engli</i>
Market oriented Sustainability Management and Market Transformation (MA-EAL-4)	The aim of this offer is to acquire knowledge and to reflect fundamental perspectives, concepts, methods and practices of market-oriented sustainability management and marketing. Market-oriented sustainability management aims to foster sustainability transformations with means of organisational, product, service and process innovations that convince market actors (consumers, suppliers, competitors, etc.) and beyond (regulators, media, etc.) to engage in a sustainability transformation of the market.	1 lecture (2 CH)	Combined assessment	5	English

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Modul Modul	Inhalt Content	Veranstaltungsformen (Art, Anzahl, SWS) Types of taught components (type and number of courses, CH)	Modulanforderungen und Prüfungsleistung Module requirements	CP	Kommentare Comments
3rd semester					
Market oriented Sustainability Management and Market Transformation (MA-EAL-4)	The aim of this offer is to acquire knowledge and to reflect fundamental perspectives, concepts, methods and practices of market-oriented sustainability management and marketing. Market-oriented sustainability management aims to foster sustainability transformations with means of organisational, product, service and process innovations that convince market actors (consumers, suppliers, competitors, etc.) and beyond (regulators, media, etc.) to engage in a sustainability transformation of the market.	1 lecture (2 CH)	Combined assessment	5	English
Consumers as Agents for Sustainable Development (MA-EAL-5)	The seminar deals with the role of consumers in the context of sustainable development. In order to be able to present unsustainable consumer behavior, different theories and concepts of sustainable consumption will be dealt with. The seminar draws on approaches from different disciplines, such as business administration, economics and psychology. On this basis, barriers and facilitating factors of sustainable consumption are identified and existing concepts for the promotion of sustainable consumption are discussed. Based on this content, students work in groups to develop their own possible measures to strengthen sustainable consumption behavior.	1 seminar (2 CH)	Combined assessment	5	English
Social Entrepreneurship (MA-EAL-6)	The purpose of this course is to explore new social enterprise creation that combines a social and an economic mission in order to simultaneously create social impact and economic profit. In this course, a social venture is defined as an innovative start-up firm, which utilizes market-based solutions as a tool for addressing social and environmental problems. By adopting a process perspective – from initial problem recognition all the way to establishing an impactful social venture – this course offers a holistic overview of the steps involved in creating businesses for societal change. Given the systemic nature of many sustainability-related challenges, this course combines insights from various theoretical approaches, coupled with practical techniques and methods for analysing and evaluating social business opportunities, crafting impact-oriented strategies, and developing creative approaches to utilize technology for social impact.	1 seminar (2 CH)	Combined assessment	5	English
4th semester					
Master Forum (MA-EAL-7)	Supervision and assistance in the conception, organization and implementation of individual Master's theses; development, presentation, discussion and reflection of questions, concepts and exposés for Master's theses	Colloquium (2 CH)	Combined assessment	5	English
Master Thesis (MA-EAL-8)	Writing of a master thesis	None	1 Master Thesis and 1 oral examination	25	

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Modul Modul	Inhalt Content	Veranstaltungsformen (Art, Anzahl, SWS) Types of taught components (type and number of courses, CH)	Modulanforderungen und Prüfungsleistung Module requirements	CP	Kommentare Comments
3rd semester					

Electives

Modul	Content	Types of taught components (type and number of courses, CH)	Module requirements	CP	Comments
Electives					
Introduction to Biodiversity and Ecosystem Functions (MA-EBS-1)	Biodiversity has several components, including species diversity, functional diversity, and phylogenetic diversity, all of which are essential for understanding ecosystem-level consequences of ongoing global biodiversity loss. This course focuses on biodiversity-ecosystem functioning (BEF) research as well as the larger implications of social ecological systems for biodiversity and ecosystem functioning. It examines how global environmental change drives impact on biodiversity but also ecosystem functioning, ecosystem services, and nature's contributions to people.	1 lecture (1 CH) 1 Seminar (1 CH)	Combined assessment	5	English
Introduction to Psychology & Sustainability (MA-P&S-2)	The course addresses fundamental sustainability problems and questions regarding the ecological, social, and economic dimensions of sustainable behavior. In an interdisciplinary fashion, key concepts of sustainability science are introduced and linked to human behavior. Vice versa, the psychological perspective is established and linked to fundamental sustainability challenges. The course offers an overview of psychological theorizing and empirical findings that aim to understand, explain, predict, and change human behavior in the context of sustainability. Psychological barriers towards sustainable behavior are explored and behavior change interventions are demonstrated to present important levers. The course addresses individual, joint, and collective behavior. The module aims at enabling students to reflect on theoretical, empirical, as well as applied interventions towards sustainable behavior.	1 lecture (2 CH) or 1 seminar (2 CH)	Written examination under supervision or Combined assessment	5	English
Resources, Materials, Products and Sustainable Chemistry (MA-RMC-1)	Concepts of sustainable chemistry along the life cycle of chemical substances, materials and complex products are explained (e.g. sustainable chemistry and green chemistry, importance of resources, green syntheses, materials and products, specifics of metals, recycling, dissipation, benign by design; safe and sustainable by design, and other concepts, new business models, international substance, material, and chemical management, EU Green Deal with a view to materials and chemicals).	1 lecture (2 CH)	<i>Combined assessment</i>	5	English
Research Methods: multivariate Approaches (MA-P&S-1)	In this course students will be provided with an overview of current data analysis techniques suitable for the analysis of multidimensional data, and data with a time component. Selected techniques of multivariate analyses will be discussed in detail. The mathematical foundations of these techniques will be introduced, and the techniques	1 seminar (2 CH) or 1 lecture (2 CH)	Written examination under supervision or Combined assessment	5	English

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Modul	Content	Types of taught components (type and number of courses, CH)	Module requirements	CP	Comments
Electives					
	will be applied to data sets from psychology and sustainability science. Student will learn how to integrate data from different sources to model relationships between different variables of interest and draw causal inferences in the field of sustainability psychology.				
Sustainability psychology: Research & Application (MA-P&S-7)	In this course, students learn to identify real world sustainability challenges on basis of current debates in the media and society. They develop research questions and identify corresponding research gaps in the existing literature. They advance their understanding of scientific literature reviews and research synthesis. To synthesize the literature, students will be provided with insights into the challenges and scientific standards (e.g., PRISMA, MARS). They will reflect upon conclusions that can be drawn from different synthesis approaches based on recent or particularly influential examples.	1 Seminar (2 CH)	Combined assessment	5	English
Sustainable Corporate Governance & Audit (Ma-SAF-5)	Theoretical, conceptual and empirical research of sustainable corporate governance and external audit of capital market oriented firms and practical implications.	1 Lecture (2 CH) and 1 Exercise (1 CH)	Written examination under supervision or Combined assessment	5	English
Current Topics of Sustainability Science I (MA-Sust-4)	The module deepens the knowledge in current research fields of sustainability science. Social-ecological systems are considered in a scientifically sound and interdisciplinary manner and are processed against the background of the respective disciplinary foundations and related to current challenges, whereby the problem-solving contribution and the potential of the research field become clear.	1 lecture (1 CH) and 1 seminar (2 CH)	Written examination without supervision or written examination under supervision	5	English
Selected Topics in Psychology (MA-P&S-9)	Students have the opportunity to participate in a module of their choice from other Masterprograms at Leuphana with a specific psychological focus (e.g., Management and Entrepreneurship, International Joint Research Master in Work and Organizational Psychology). Students learn to acquire psychological knowledge in other applied contexts. Vice versa, they also learn to transfer and apply the acquired knowledge to the context of sustainability psychology. Thereby, they enrich their knowledge of psychological theories and empirical findings in order to describe, analyze, predict, and change human behavior in the context of sustainability.	1 seminar (2 CH) or 1 lecture (2 CH)	Written examination under supervision or Combined assessment	5	English
Communication of Scientific Results (MA-NaWi-11b)	The subject of the module is the communication of scientific findings, theses and research results. The focus is on addressee- and context-related approaches and strategies in preparation and publication for scientific and non-scientific target groups as well as possibilities and limits of inter- and transdisciplinary communication.	1 seminar (2 CH) or 1 lecture (2 CH)	Combined Assessment or written examination without supervision	5	English

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Modul	Content	Types of taught components (type and number of courses, CH)	Module requirements	CP	Comments
Electives					
(Non) Financial reporting (Ma-SAF-2)	Theoretical, conceptual and empirical research with regard to external reporting of capital market oriented firms (financial reporting according to HGB and IFRS, Sustainability Reporting according to GRI and Integrated Reporting) and practical implications.	1 Lecture (2 CH)	Written examination under supervision or Combined assessment	5	English
Psychology and the Individual: Self-regulation and Sustainability (MA-P&S-3)	In this course, the ways in which people affect sustainable development is addressed from a psychological perspective with a focus on individual psychological processes. Particular emphasis will be on the topic of self-regulation and its important role in the domain of sustainability psychology. From a developmental perspective on sustainability psychology the evolution of a sustainable mindset and corresponding behaviors (e.g., mindful use of natural resources, self-regulation and consumption, concern for economic equity) will be addressed. From the perspective of developmental psychology, research on the evolution of self-regulation competencies (e.g., executive functions, mindfulness) will be reviewed and applied to topics of sustainability. Based on theories and studies from the domain of developmental psychology and self-regulation research, interventions will be developed to foster a sustainable lifestyle of individuals at different stages of life.	1 Seminar (2 CH)	Combined assessment	5	Englisch
Current Topics of Sustainability Science II (MA-Sust-5)	The module deepens the knowledge in current research fields of sustainability science. Social-ecological systems are considered in a scientifically sound and interdisciplinary manner and are processed against the background of the respective disciplinary foundations and related to current challenges, whereby the problem-solving contribution and the potential of the research field become clear.	1 seminar (2 CH) or 1 lecture (2 CH)	Written examination without supervision or written examination under supervision	5	English

Section II

Entry into force

This subject-specific annex comes into force in the winter semester 2024/25.

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