

UNIVERSITÄT ZU LÜBECK

Module Guide for the Study Path

Bachelor Interdisciplinary Courses

Version from 1. April 2025



Arbitrary semester

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CS2	CS2450-KP02, CS2450 - Tools for scientific practice (Werkzeuge)				
Duration:	Turnus of offer:	Credit points:			
1 Semester	each winter semester	2			
Course of study, specific field and Bachelor Interdisciplinary Co Bachelor Computer Science Bachelor Medical Informatic Bachelor Medical Informatic Bachelor Computer Science Bachelor Interdisciplinary Co Bachelor Media Informatics Bachelor Computer Science	d term: ourses for health sciences (optional 2019 (compulsory), interdisciplinar s 2014 (optional subject), interdisc 2019 (optional subject), interdiscip 2016 (compulsory), interdisciplinar ourses (optional subject), Interdiscip 2014 (optional subject), interdiscip	subject), interdisciplinary competence, Arbit y competence, 3rd semester plinary competence, Arbitrary semester plinary competence, Arbitrary semester y competence, 3rd semester plinary modules, Arbitrary semester inary competence, 5th or 6th semester	rary semester		
Tools for scientific practice	(seminar-style lectures, 2 SWS)	 • 30 Hours in-classroom work • 30 Hours private studies 			
 Programming language Pyt Markup languages (LaTeX, I User Interfaces and Integrat Software for version contro digital libraries search (DBL Data processing and visuali Machine Learning (scikit-leat DeepLearning (Tensorflow, 	chon Markdown) ted Development Environments (Ju l (git) P, ACM, IEEE)Scientific Computing (zation (Pandas, matplotlib, NLTK) arn) PyTorch)	pyter Notebook) NumPy, SciPy)			
Qualification-goals/Competencie • The students know diverse • They can apply important to • They can handle version co • They are able to select appr	technical tools for scientific work. echnical tools from the Python Eco ntrol and markup languages. ropriate tools.	ystem.			
Grading through: • exercises and project assigr	iments				
Is requisite for: • Bachelor Thesis Computer S • Bachelor Project Computer • Bachelor Seminar Information	ccience (CS3990-KP15, CS3990) Science (CS3701-KP05, CS3701SJ14 cs (CS3702-KP04, CS3702))			
Responsible for this module: • Studiengangsleitung Informatik Teacher: • Institute of Computer Engineering • Alle prüfungsberechtigten Dozentinnen/Dozenten des Studienganges					
Language: • German and English skills re	equired				
Notes: Prerequisites for attending the - None	e module:				



Credit points: 4 aary competence, Arbitrary semester itrary semester rbitrary semester ivate studies ork on project -classroom work		
4 hary competence, Arbitrary semester itrary semester rbitrary semester ivate studies ork on project -classroom work		
ary competence, Arbitrary semester itrary semester rbitrary semester ivate studies ork on project -classroom work		
ivate studies ork on project -classroom work		
 Contents of teaching: Introduction - An overview of tools, possibilities and discourses on generative AI Fundamentals of Technology 1 - Basic Modes of Operation Fundamentals of Technology 2 - Adaptation to Social Norms Application basics - How to proceed when using generative AI? Psychological implications - effects on experience, motivation and skills in the workplace Use cases 1 - General productivity and scientific writing Use cases 2 - Research Use cases 3 - Training Use cases 3 - Training Use cases 4 - Medicine Al and security - The risks of AI in safety-critical applications Legal and Ethical Aspects - Intellectual Property, Privacy and Societal Challenges Sustainability - Environmental Costs The future - outlook on future possibilities and limitations Qualification-goals/Competencies: Students will be able to explain the basic functioning and technology of generative AI in general content production. Students are able to citically evaluate the impact of generative AI technologies and can formulate these concretely and precisely. Students are able to citically evaluate the impact of generative AI neflectively in their studies and future work. The students know the basic legal framework around generative AI applications. 		



Literature:

: Various further literature from science and journalism
 Language:

 German or English

 Notes:

 Admission requirements for taking the module:

 None
 Admission requirements for participation in module examination(s):

 None
 Module-Exam(s):
 CS3208-L1: Responsible Use of Generative AI, successful submission and presentation of a semester-long project, 100% of the (non existent) module grade
 Image: Superscript (Semester Section Sect



CS3510-	KP04 - Data protection law	v and information	security (DatInfoSec)	
Duration:	Turnus of offer:		Credit points:	
1 Semester	every summer semeste	۲	4 (Тур В)	
Course of study, specific field and Master Medical Informatics Bachelor Medical Informatic Master Interdisciplinary Cou Bachelor Interdisciplinary Co Bachelor Interdisciplinary Co	d term: 2019 (optional subject), interdisci s 2019 (optional subject), interdis irses (optional subject), interdiscip purses (optional subject), interdisc purses for health sciences (option	plinary competence, 1 sciplinary competence, plinary, Arbitrary seme ciplinary, Arbitrary sem al suject), interdisciplir	st or 2nd semester 4th to 6th semester ster nester nary, Arbitrary semester	
Classes and lectures:		Workload:		
 CS3510-V: Data protection l (lecture, 2 SWS) CS3510-Ü: Data protection l (exercise, 1 SWS) 	aw and information security aw and information security	 60 Hours p 40 Hours i 20 Hours e 	private studies n-classroom work exam preparation	
Contents of teaching: • • •				
Qualification-goals/Competencie Students can recognize and a data processing system. Students can assess what the 	s: apply the legal framework for dates the second s	ata protection and info	rmation security for persons who a nting and operating data processin	re responsible for 1g systems.
Grading through: • written exam				
Responsible for this module: • Prof. DrIng. Thomas Eisenb Teacher: • Institute for IT Security • externe Referent*innen	barth			
Literature:				
•: •: •: •:				
Language: • offered only in German				
Notoc				
Admission requirements for ta - None	king the module(s):			
Admission requirements for p - None	articipation in module examination	on(s)		
Module examination: - CS3510-KP04 Data protection	n law and information security W	ritten exam, 100 % of t	he module grade	



EW2412-KP03 - Quality management (WFQM)				
Duration:	Turnus of offer:		Credit points:	
1 Semester	each winter semester		3	
 Course of study, specific field and term: Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester 				
Classes and lectures: Workload: • Quality Management (lecture, 2 SWS) • 60 Hours private studies • 30 Hours in-classroom work			studies sroom work	
Contents of teaching: basic concept of quality management composition and organisation of a QM-system Total Quality Management (TQM) quality system audit certification 				
Qualification-goals/Competencies: The students know the basic conception They understand the composition a 	ot of quality management nd organisation of a QM-sys	stem		
Grading through: • written exam				
Responsible for this module: • Prof. Dr. med. Christian Sina Teacher: •				
Literature: • :				
Language: offered only in German				





	GW3260-KP04 - Socio	logy of health (SodGl	H)
Duration:	Turnus of offer:		Credit points:
1 Semester	each winter semester		4
 Course of study, specific field and term Bachelor Interdisciplinary Courses Bachelor Interdisciplinary Courses 	: for health sciences (optional (optional subject), Interdiscip	subject), Interdisciplinary n linary modules, Arbitrary s	nodules, Arbitrary semester emester
Classes and lectures:		Workload:	
• Sociology of health (seminar, 2 SW	/S)	90 Hours private30 Hours in-class	studies room work
Contents of teaching:			
 Explanatory approaches and conc Social construct of health and illne Social and cultural influences on h Social determinants of health and Lifelong perspectives on health Health from a Gender Perspective Media construction of health 	epts of health and disease ess ealth opportunities and disea health care	ase risks	
Qualification-goals/Competencies:			
 Students can reflect and critically a distribution in society The students can explain and anal opportunities arise over the course Students can critically discuss the Students reflect on their own und 	analyze the social and socio- yze health risk constellations e of a lifetime. influence of social media on l erstanding of health and illne	ultural causes and context as well as the conditions u health. ess against the background	s of health and illness and their unequal Inder which socially unequal health of social science theories and models.
continuous, successful participatic	n in course, >80%		
 Responsible for this module: Prof. Dr. phil. DiplSoz. Katja Göt: Teacher: Institute of Family Medicine Prof. Dr. phil. DiplSoz. Katja Göt: 	Z		
 Hehlmann T, Schmidt-Semisch H, Schorb F.: Soziologie der Gesundheit - UVK Verlag, München 2018 Paul B, Schmidt-Semisch H.: Risiko Gesundheit. Über Risiken und Nebenwirkungen der Gesundheitsgesellschaft - VS Verlag für Sozialwissenschaften, Wiesbaden 2010 Richter M, Hurrelmann K.: Soziologie von Gesundheit und Krankheit - VS Springer, Wiesbaden 2016 Richter M, Hurrelmann K.: Gesundheitliche Ungleichheit. Grundlagen, Probleme, Perspektiven - VS Verlag für Sozialwisschenschaften 2006 Franke A.: Modelle von Gesundheit und Krankheit - Verlag Hans Huber, Bern 2006 			
Language:			
German and English skills required	l 		
Notes:			



Prerequisites for attending the module: - None

Prerequisites for the exam: Holding a lecture and group work.



	LS2807-KP04 - Philos	ophy of Science (WissTheo)	
Duration:	Turnus of offer:	Credit points:	
1 Semester	every summer semeste	er 4	
Course of study, specific field • Bachelor Molecular Life S • Bachelor Interdisciplinar • Bachelor MLS 2018 (opti • Master Interdisciplinary (• Bachelor Interdisciplinar • Bachelor MLS 2016 (opti	and term: Science 2024 (optional subject), inte y Courses for health sciences (optior onal subject), life sciences, 4th seme Courses (optional subject), Interdisci y Courses (optional subject), Interdisci onal subject), life sciences, 4th seme	rdisciplinary competence, 4th or 6th semester nal subject), interdisciplinary competence, Arbitrary semester ester plinary modules, Arbitrary semester sciplinary modules, Arbitrary semester ester	
Classes and lectures:		Workload	
 Basic of evolution theory perspectives (lecture, 2 S Basic of evolution theory perspectives (seminar, 1 	Classes and lectures: Workload: • Basic of evolution theory: Historical and phylosophical perspectives (lecture, 2 SWS) • 75 Hours private studies • Basic of evolution theory: Historical and phylosophical perspectives (seminar, 1 SWS) • 45 Hours in-classroom work		
Contents of teaching:			
• • • • • •	ncies:		
e • • •	icies.		
Grading through: • oral presentation and es	say		
Responsible for this module:			
• Dr. phil. Staffan Müller-W	/ille		
Teacher:			
 Institute for History of M 	edicine and Science Studies		
 Dr. phil. Staffan Müller-W Prof. Dr. med. Cornelius Prof. Dr. rer. nat. Burghan Prof. Dr. phil. Christoph F Prof. Dr. phil Christina Sc Dr. phil. Leonhard Meng Dr. rer. nat. Schult 	/ille Borck rd Weiss Rehmann-Sutter chües ges		
Literature:			
 S. Shapin: Die wissensch M. Hagner: Ansichten de I. Hacking: Einführung in Rheinberger, Hans-Jörg: U. Krohs und G. Toepfer: I. Jahn: Grundzüge der B K. Köchy: Biophilosophie A. Brenner: Leben. Grund 	aftliche Revolution - Frankfurt a.M. 1 er Wissenschaftgeschichte - Frankfur die Philosophie der Naturwissensch Historische Epistemologie zur Einfü Philosophie der Biologie: Eine Einfü iologiegeschichte - Jena 1990 e zur Einführung - Hamburg 2008 dwissen Philosophie - Stuttgart 2009	998 t a.M., 2001 naften - Stuttgart 1983 hrung - Hamburg 2007 ihrung - Frankfurt a.M. 2005.	



Language:

• offered only in German

Notes:

Part of the module LS2800 Basics understanding of molecular Biology; Interest in philosophical-ethical questions in the life sciences



PS1050-KP04 - Intercultural skills in higher education, work and society (IKKSBG)				
Duration:	Turnus of offer:	Credit points:	Max. group size:	
1 Semester	each winter semester	4	15	
 Course of study, specific field and term: Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), interdisciplinary competence, Arbitrary semester 				
Classes and lectures: • Intercultural skills in high (seminar, 3 SWS)	ner education, work and society	Workload: • 40 Hours private studies • 38 Hours in-classroom work • 22 Hours group work		
Contents of teaching: • • • • • • • •				
Qualification-goals/Competen	icies:			
Grading through: • continuous, successful p • Group work • Active Participation	articipation in course			
Responsible for this module: • Prof. Dr. rer. nat. Till Tant Teacher: • International Office • Dr. Imke Lode • Matthias Holzum Literature: • :	au			
• : • : Language: • offered only in German				



PS1110-KP04 - Social Aspects of Sustainability (GesellNach)					
Duration:	Turnus of offer:	Credit points:			
1 Semester	each winter semester	4			
Course of study, specific field • Bachelor Interdisciplinar • Master Interdisciplinary • Bachelor Interdisciplinar	and term: y Courses (optional subject), interdiscipl Courses (optional subject), interdisciplin y Courses for health sciences (optional s	inary competence, Arbitrary semester ary competence, Arbitrary semester subject), interdisciplinary competence, Arbitrary semester			
Classes and lectures:		Workload			
 PS1110-S: Social Aspects PS1102-V: Social classific 1 SWS) 	Classes and lectures: PS1110-S: Social Aspects of Sustainability (seminar, 1 SWS) PS1102-V: Social classification of sustainability science (lecture, 1 SWS) Workload: • 60 Hours private studies • 30 Hours in-classroom work				
Contents of teaching:					
 The idea of sustainable of Foundations for theoret Foundations of sustaina Basic concepts of sustaina Fundamentals of the ph Specific aspects of the m 	development and its historical classificat ical concepts of sustainable developmer ble development and its scientific reson hability ethics ilosophy of science and transdisciplinary nethodology of sustainability science	ion nt ance y research			
Qualification-goals/Competer	ncies:				
 Students master the bas They have an understan criteria they must fulfil You will gain a general u economic developments 	ics of ecological, social and economic as ding of which procedures are sustainabl Inderstanding of sustainability science a s.	sessment of the sustainability of technological developments. le in which areas (business, medicine, research, transfer) and which and learn about its importance for society and current and future			
Grading through:					
• portfolio exam					
Responsible for this module:					
• Prof. Dr. rer. nat. Charli K	ruse				
Teacher:					
 Institute of Medical and 	Marine Biotechnology				
 Prof. Dr. rer. nat. Charli K Dr. rer. nat. Daniel Hans Dr. rer. nat. Sandra Schu Dr. rer. nat. Philipp Ciba Dr. rer. nat. Anna Emilia 	ruse Rapoport umann Matthießen				
Literature:					
 Harald Heinrichs, Gerd N Joachim Pietzsch: Bioöke 	1ichelsen: Nachhaltigkeitswissenschafter onomie für Einsteiger - Springer Spektru	n - Springer Spektrum 2014 ım 1. Auflage 2017 Edition			
Language:	Language:				
offered only in German					
Notes:					



Admission requirements for taking the module: - None

Admission requirements for participation in module examination(s): - Successful and regular participation in the seminar

Module Exam(s):

- PS1110-L1: Social Aspects of Sustainability, Portfolio exam consisting of: 30 points in the form of an individual term paper, 70 points in the form of a semester presentation, 100% of the (non-existent) module grade



PS1120-K	P04 - Economic Aspec	ts of Sustainability (DekoNach)	
Duration:	Turnus of offer:		Credit points:	
1 Semester	every summer semester		4	
Course of study, specific field and term: • Bachelor Interdisciplinary Courses (o • Master Interdisciplinary Courses (opt • Bachelor Interdisciplinary Courses fo	ptional subject), interdiscip ional subject), interdisciplin r health sciences (optional s	linary competence, Arbitra aary competence, Arbitrary subject), interdisciplinary c	ry semester semester ompetence, Arbitrary semester	
Classes and lectures:Workload:• PS1120-S: Economic Aspects of Sustainability (seminar, 1 SWS)• 60 Hours private studies• PS1100-V: Sustainable bioeconomy (lecture, 1 SWS)• 30 Hours in-classroom work				
 Contents of teaching: Presentation and discussion of select restoration, sustainable water manage Connection between the bioeconom production of fuel and chemicals, the and interconnected system Criteria for success of the bioeconom 	ted fields of action: Sustaina gement, cost avoidance thro ny and sustainability using e e bioeconomy from the per	ability through climate pro ough flood and coastal pro exemplary examples: The o rspective of the innovation	tection using the example of peatland otection in Germany. rigin of biomass, the use of biomass for the economy, the bioeconomy as a closed-loop	
 Qualification-goals/Competencies: Students can understand the topics of sustainability, bioeconomy and biotechnology and explain them using examples They understand the bioeconomy system and the specifics of a sustainable bioeconomy They master the essential basics of ecology and their economic classification They understand the importance of the bioeconomy and sustainability in the field of entrepreneurship (management, digital economy, business administration and spin-offs) 				
Grading through: portfolio exam 				
Responsible for this module: • Prof. Dr. rer. nat. Charli Kruse Teacher: • Institute of Medical and Marine Biotechnology • Prof. Dr. rer. nat. Charli Kruse • Dr. rer. nat. Daniel Hans Rapoport • Dr. rer. nat. Sandra Schumann • Dr. rer. nat. Philipp Ciba • Dr. rer. nat. Anna Emilia Matthießen				
Literature: • Harald Heinrichs, Gerd Michelsen: Na • Joachim Pietzsch: Bioökonomie für E	achhaltigkeitswissenschafte insteiger - Springer Spektru	n - Springer Spektrum 201 ım 1. Auflage 2017 Edition	4	
Language: • offered only in German				
Notes:				



Admission requirements for taking the module: - None

Admission requirements for participation in module examination(s): - Successful and regular participation in the seminar

Module Exam(s):

- PS1120-L1: Economic Aspects of Sustainability, Portfolio exam consisting of: 30 points in the form of an individual term paper, 70 points in the form of a semester presentation, 100% of the (non-existent) module grade



PS1130-KP04 - Interdisciplinary Perspectives on Ecological Sustainability (IPoeN)			
Duration:	Turnus of offer:		Credit points:
1 Semester	each winter semester		4
Course of study, specific field and term: • Bachelor Interdisciplinary Courses (or • Master Interdisciplinary Courses (op • Bachelor Interdisciplinary Courses for	ptional subject), interdiscip tional subject), interdisciplir r health sciences (optional s	linary competence, Arbitra hary competence, Arbitrary subject), interdisciplinary c	ry semester semester ompetence, Arbitrary semester
Classes and lectures:Workload:• PS1110-S: Interdisciplinary Perspectives on Ecological Sustainability (seminar, 0,6 SWS)• 90 Hours private studies• PS1102-Ü: Interdisciplinary Perspectives on Ecological Sustainability (exercise, 0,3 SWS)• 30 Hours in-classroom work• PS1102-V: Interdisciplinary Perspectives on Ecological Sustainability (lecture, 0,8 SWS)• 30 Hours in-classroom work• PS1102-P: Interdisciplinary Perspectives on Ecological Sustainability (lecture, 0,8 SWS)• 90 Hours private studies• 90 Hours private studies• 30 Hours in-classroom work			studies room work
Contents of teaching: • Expert lectures on selected topics in • Campus excursion on a selected asp • Background discussions and modera • Introduction to public relations (wit • Development and presentation of a • Reflection on own options for action	ecological sustainability (e. bect of sustainability (e.g. bio ation of expert lectures (wit h practical exercises) sustainability utopia (with p h (with practical exercises)	g. global climate impact, p ogas plant, mobility) h practical exercises) practical exercises)	sychology of renunciation)
 Qualification-goals/Competencies: Students know what is ecological sustainability Students know the causes of global climate change and can assess their relevance Students know what ecological sustainability is Students can identify options for actions when different sustainability goals conflict, assess their respective cost-benefit ratios and develop solutions Students can assess their own behavior and that of others with regard to ecological sustainability Students can describe and reflect on the limits of rational, goal-oriented human behavior Students can develop creative utopias, goals and roadmaps to achieve sustainability goals Students can write a summary of a scientific presentation to reach the public 			
Grading through: • written examination			
Responsible for this module: • Prof. Dr. rer. nat. Silke Anders Teacher: • Department of Psychology I • Prof. Dr. rer. nat. Silke Anders • externe Referent*innen • Andere Dozenten			
 Literature: Holler, Christian, Gaukel, Joachim, Lesch, Harald, Lesch, Florian: Erneuerbare Energien zum Verstehen und Mitreden - Bundeszentrale für Politische Bildung, Bonn. 176 S. ISBN 978-3-7425-0894-2, 2022 Latif, Mojib: Globale Erwärmung - UTB Profile. UTB, Stuttgart, 120 S. ISBN 978-3-8252-3586-4, 2012 Werner, Micha: Einführung in die Ethik. Kapitel - J.B Metzler, 316 S. ISBN 978-3-476-01944-8, 2021 			
-			



• offered only in German

Notes:

Admission requirements for taking the module:

- None

Admission requirements for participation in module examination(s):

- regular participation in the seminar
- regular participation in the expert lectures/excursion
- Background discussion and moderation of an expert presentation in a small group
- Written preparation of a press release
- Development and presentation of a utopia in a small group

Module Exam(s):

- PS1130-L1: Interdisciplinary Perspectives on Ecological Sustainability, written multiple-choice exam, 100% of the (non-existent) module grade



PS1500-KP05 - Sustain	ability Science with Fe	ocus on Ecology & Bi	otechnology (NachWiss)
Duration:	Turnus of offer:		Credit points:
1 Semester	every summer semester		5
Course of study, specific field and term: • Master Interdisciplinary Courses (op • Bachelor Interdisciplinary Courses fo • Bachelor Interdisciplinary Courses (or	tional subject), interdisciplir or health sciences (optional s optional subject), interdiscip	aary competence, Arbitrary subject), interdisciplinary o linary competence, Arbitra	y semester competence, Arbitrary semester ary semester
Classes and lectures:Workload:• PS1500-V: Sustainability Science (lecture, 2 SWS)• 90 Hours private studies• PS1500-S: Sustainability Science (seminar, 1 SWS)• 60 Hours in-classroom work• PS1500-Ü: Sustainability Science (exercise, 1 SWS)			e studies sroom work
Contents of teaching: Introduction to scientific perspectiv Basic concepts of ecosystem and bid Foundations for food security and h Review of the importance of biotech Significance of chemical substances Basics of global material cycles (eart Conditions for a sustainable bioecon Basics on the importance of transge	es on sustainability odiversity ealthy nutrition in the conte nnology for the bioeconomy in the environment th system, climate) nomy enic animals and plants	ext of the bioeconomy /	
 Qualification-goals/Competencies: Students can use examples to explain the terms sustainability, bioeconomy and biotechnology They can assess selected technological developments with regard to their influence on sustainability They will learn exemplary different processes to get a practical insight into the bioeconomy They understand the fundamental importance of biotechnology for a sustainable bioeconomy They will learn about examples of the close link between sustainable bioeconomy and biotechnology They will gain insight into the use of extracorporeal cell cultures, sustainable medical processes, and biomass production and utilization They will learn about the construction of recirculating systems or the ecologically sound use of marine biomass They can professionally evaluate the topics of sustainability and bioeconomy in new subject areas They have a profound knowledge to be able to assess technologies and processes with regard to their sustainability 			
Responsible for this module: • Prof. Dr. rer. nat. Charli Kruse Teacher: • Institute of Medical and Marine Biot • Prof. Dr. rer. nat. Charli Kruse • Dr. rer. nat. Daniel Hans Rapoport • Dr. rer. nat. Sandra Schumann • Dr. rer. nat. Philipp Ciba • Dr. rer. nat. Anna Emilia Matthießen	echnology		
Literature: • Harald Heinrichs, Gerd Michelsen: N • Joachim Pietzsch: Bioökonomie für • Reinhard Renneberg, Darja Süßbier, • Daniela Thrän, Urs Moesenfechtel: D	achhaltigkeitswissenschafte Einsteiger - Springer Spektru Viola Berkling, Vanya Loroc Das System Bioökonomie - S	n - Springer Spektrum; 20 ım; 1. Aufl. 2017 Edition h: Biotechnologie für Einst pringer Spektrum; 1. Aufl.	14 teiger - Springer Spektrum; 5. Aufl. 2018 2020

Language:



• offered only in German

Notes:

Admission requirements for taking the module:

- None

Admission requirements for participation in module examination(s): - Successful and regular participation in the seminar

Module Examination(s):

- PS1500-L1: Sustainability Science with a Focus on Ecology & Biotechnology, portfolio examination consisting of: 50 points in the form of a term paper completed independently during the semester and 50 points in the form of a presentation, 100% of the (non-existent) module grade



PS3310-KP05 - Interdisciplinary Prototype Development (IPE)				
Duration:	Turnus of offer:		Credit points:	
2 Semester	beginning each winter semester		5	
Course of study, specific field and t • Bachelor Interdisciplinary Cou • Bachelor Interdisciplinary Cou Classes and lectures: • PS3310-P: Interdisciplinary Pr work, 2 SWS)	rerm: rses for health sciences (optional rses (optional subject), interdiscip ototype Development (project	subject), interdisciplinar olinary competence, Arbi Workload: • 120 Hours priv • 30 Hours in-cla	y competence, Arbitrary semester trary semester vate studies assroom work	
Contents of teaching: CONCEPT DEVELOPMENT: Analysis and critical evaluatio Fundamentals of creative thir PROJECT MANAGEMENT: Effective collaboration in inte Introduction to project manage BASICS OF CONSTRUCTION: General introduction to protoc Overview of various aspects of PROTOTYPE PRODUCTION: Hands-on experience in the w Get to know material process TESTS AND EVALUATION: Application of project manage Testing and evaluation of pro FURTHER DEVELOPMENT OF Adjustments and optimizatio Presentation of the prototype	n of prototype concepts. Iking and idea development. Irdisciplinary teams. gement basics without detailed te type development processes. If product development. Ivorkshop, independent of specific ing and technologies. ement methods to real scenarios. totypes in practical environments ITHE PROTOTYPES: Ins based on the experience gaine is and their development.	echnical aspects. construction tasks.		
Qualification-goals/Competencies: • Students can effectively orgal • They can develop, plan and ir • They can successfully apply p • They can present results and • They can gain practical exper • They can produce and test pr • They can critically evaluate ar Grading through:	nize interdisciplinary collaboration nplement concepts for product de roject management methods. processes convincingly. ience in workshop work and in ha ototypes. Ind improve the developed prototy	n. evelopments. ndling various materials /pes.	and technologies.	
 project work 				
Responsible for this module: • Prof. Dr. Georg Schildbach Teacher: • Lübeck University of Applied • Prof. DrIng. Sung-Won Choi	Sciences (TH Lübeck)			
Literature: • Feldhusen, Jörg; Grote, Karl-H Berlin Heidelberg New York: S • Dombrowski, Uwe: Lean Deve 2015	einrich: Pahl/Beitz Konstruktionsk pringer-Verlag, 2013 elopment: Aktueller Stand und zul	ehre : Methoden und An künftige Entwicklungen ·	wendung erfolgreicher Produktentwicklung - - Berlin Heidelberg New York: Springer-Verlag,	



Language:

• offered only in German

Notes:

Admission requirements for taking the module:

- None

Admission requirements for participation in module examination(s):

- Successful completion of one of two project assignments as specified at the beginning of the semester

Module examination(s):

- PS3310-L1: Interdisciplinary prototype development winter semester, project work, 40% of the (non-existent) module grade

- PS3310-L2: Interdisciplinary prototype development summer semester, project work, 60% of the (non-existent) module grade

The module takes place at the Lübeck University of Applied Sciences.



	PS4620-KP04, PS4620SJ14 -	- Ethics of Sciences (I	EthikKP04)
Duration:	Turnus of offer:		Credit points:
1 Semester	each summer semester		4 (Тур В)
Course of study, specific field an Bachelor Interdisciplinary C Master Medical Informatics Bachelor MES 2014 (optional Master MES 2014 (optional Master Medical Informatics Master Interdisciplinary Co Bachelor Interdisciplinary C	nd term: Courses for health sciences (optiona s 2019 (optional subject), interdiscip nal subject), no specific field, Arbitra I subject), no specific field, 1st or 2n s 2014 (optional subject), interdiscip purses (optional subject), Interdiscip Courses (optional subject), Interdisc	al subject), interdisciplinar olinary competence, 1st or iry semester id semester olinary competence, 1st or linary modules, Arbitrary iplinary modules, Arbitrary	y competence, Arbitrary semester r 2nd semester r 2nd semester semester y semester
Classes and lectures [,]		Workload	
Ethics in the Life Sciences (seminar, 2 SWS)		 65 Hours private studies 30 Hours in-classroom work 25 Hours work on an individual topic with written and oral presentation 	
 Basics of philosophy and s Good scientific practice Basics of bioethics: duties of Ethics of human subjects r Neuroethics Ethics of AI and robotics 	ociology of science of investigators, obligations to colle esearch and animal experiments, er	eagues, nvironmental ethics. Gove	rnance of technology,risk assessement
Qualification-goals/Competenci Students can explain the n They can recognize ethical They can identify and asse They can understand relev They can participate in cur They can reflect on ethical	es: nethodology of the physical science I dimensions of practice and decidir ss ethical dimensions of action and rant laws in Germany rrent discussions in bioethics and re dimensions of biomedical sciences	es and technology and the ng decision-making in biotec search ethics	eir philosophical basis chnology and Al
Grading through: • continuous, successful part	ticipation in course		
Responsible for this module: Prof. Dr. phil. Christoph Rel Teacher: Institute for History of Med Prof. Dr. med. Cornelius Bo Prof. Dr. phil. Christoph Rel Prof. Dr. phil. Christina Sch Dr. phil. Frank Wörler	hmann-Sutter licine and Science Studies vrck hmann-Sutter ües		
Literature: • Urban Wiesing (Hg.):: Ethik • Ben Mepham: Bioethics. An • Jennifer A. Parks, Victoria S	t in der Medizin. Ein Studienbuch - S n Introduction for the Biosciences - S. Wike: Bioethics in a Changing Wo	Stuttgart: Reclam 5. Aufl. 2 Oxford: Oxford University rld - Upper Saddle River, N	2020 Press 2008 N.J.: Prentice Hall, 2010



Notes:

Prerequisites for attending the module: - None

Prerequisites for the exam:

- Writing an essay and giving a lecture



	PS4630-KP04 - Ethics of Ir	nnovative Technologies (EthikIT)
Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4
Course of study, specific fie	eld and term:	
Bachelor InterdiscipliBachelor Interdiscipli	nary Courses for health sciences (optio nary Courses (optional subject), interdi	nal subject), interdisciplinary competence, Arbitrary semester isciplinary competence, Arbitrary semester
Classes and lectures:		Workload:
 Ethics of Innovative Technologies (seminar, 1 SWS) Ethics of Innovative Technologies (lecture, 2 SWS) 		 30 Hours group work 30 Hours in-classroom work 30 Hours private studies 30 Hours written report
Contents of teaching:		
 Basic concepts and m Ethical decision-maki Autonomous systems Case studies of new a 	nethods of ethics ng models s in the context of social change and unresolved ethical issues due to m	odern and emerging technologies
Qualification-goals/Compe	tencies:	
 Students will be able Students can evaluat Students can argue e The students are fam and artificial intellige 	to analyse future and existing technol e decisions in case studies on the basis thically and represent their opinion in iliar with fundamental future ethical is nces.	ogies with regard to associated ethical issues. s of different ethical models. discussions. sues regarding robotisation and the development of autonomous systems
Grading through: • continuous, successfu	Il participation in course	
Responsible for this modul • Prof. DrIng. Christiar Teacher: • Institute for Electrical • Brof. Dr. Ing. Christian	e: 1 Herzog Engineering in Medicine	
• Prof. Dring. Christian	i neizog	
Literature: • : various topic-related	d and current literature	
• German and English s	skills required	
Notes:		
Admission requirement - None	s for taking the module:	
Admission requirement - None	s for participation in module examinat	tion(s):
Module Exam(s): - Submissions in groups - At the end of the sem identified and will be ev - The evaluation of the	s will be required periodically during th ester a report incl. a presentation (80% valuated separately. report is determined from: 70% indivic	ne semester, accounting for 20% of the final assessment. b) is required, whereby the respective individual performance must be dual performance + 30% overall evaluation of the report.

- To successfully pass the course, you need to be evaluated at least in terms of a sufficient performance.







PS4670-KP04 - Studium Generale (StuGen)				
Duration:	ation: Turnus of offer: Credit points:		Credit points:	
Semester each winter semester		4 (Тур В)		
 Course of study, specific field and term: Master Artificial Intelligence 2023 (optional subject), for equivalence check, Arbitrary semester Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester 				
Classes and lectures: Workload:				
 Studium Generale (, 1 SWS) Studium Generale (seminar, 1 SWS) 		 60 Hours private studies 30 Hours work on an individual topic with written and oral presentation 30 Hours in-classroom work 		
 Contents of teaching: Current social and political topics Philosophical, cultural studies and contemporary history perspectives Current discussions from science, politics and society Text reading and discussions about specialized scientific texts 				
 Qualification-goals/Competencies: Students can see through argumentation structures They can increase their analysis, reflection and argumentation skills Expand knowledge of social and political issues and their current debates. Development of a cultural, philosophical, and contemporary historical understanding of the contexts of medicine, the natural sciences, the life sciences, technology, computer science, the health sciences, and psychology. 				
Grading through:				
continuous, successful participation in course				
Responsible for this module: • Prof. Dr. phil Christina Schües Teacher: • Institute for History of Medicine and Science Studies • Prof. Dr. phil Christina Schües • Prof. Dr. phil Christina Schües • Prof. Dr. phil. Christoph Rehmann-Sutter • Dr. phil. Birgit Stammberger • externe Referent*innen				
Literature:				
•:				
Language: • offered only in German Notes:				



Prerequisites for attending the module: - None

Prerequisites for the exam:

- Active participation in the seminar

- Written elaboration according to the requirements at the beginning of the semester

Module exam(s):

- PS4670-L1: Studium Generale, ungraded seminar, 0% of module grade, must be passed.





	PS4680-KP04 - About Rac	ism and other -Isms (Rassis)	
Duration:	Turnus of offer:	Credit points:	
1 Semester	each winter semester	4 (Тур В)	
Course of study, specific field and to • Bachelor Interdisciplinary Course • Master Interdisciplinary Course • Bachelor Interdisciplinary Course	erm: rses for health sciences (optiona es (optional subject), Interdiscipl rses (optional subject), Interdisci	l subject), Interdisciplinary modules, Arbitrary semester inary modules, Arbitrary semester plinary modules, Arbitrary semester	
Classes and lectures: • About Racism and other -Isms (seminar, 2 SWS)		 Workload: 60 Hours private studies 30 Hours work on an individual topic with written and oral presentation 30 Hours in-classroom work 	
Contents of teaching: • Current social and political dis • Conceptual reappraisal of the • Reading and discussion of scie • Development of perspectives	cussion on racism historical, cultural and social bac entific texts critical of racism	ckground of e.g. race, gender or eugenics	
Qualification-goals/Competencies: • Students can understand and • Increasing their ability to analy • Expanding the knowledge in a • Development of a philosophic natural and life sciences.	evaluate the structures of conce yse, reflect and argue a subject area that is cross-discip al, historical and cultural-theore	pts and arguments linary tical understanding of the social contexts of psychology, medicine,	
Grading through: • continuous, successful particip	nation in course		
Responsible for this module: Prof. Dr. phil Christina Schües Teacher: Institute for History of Medicin Prof. Dr. phil Christina Schües 	e and Science Studies		
Literature: • :			
Language: • German and English skills requ	iired		
Notes: Prerequisites for attending the m - None Prerequisites for the exam:	nodule:		
- Written preparation and giving	a lecture during the semester		



	PS5010-KP04 - Sustainable	Power Supply (Energ	jieZuk)
Duration:	Turnus of offer:		Credit points:
1 Semester	each winter semester		4 (Тур В)
Course of study, specific field • Bachelor Interdisciplinar • Master Interdisciplinary • Bachelor Interdisciplina	d and term: ary Courses for health sciences (optional / Courses (optional subject), Interdisciplin ary Courses (optional subject), Interdiscip	subject), Interdisciplinary m nary modules, Arbitrary sen linary modules, Arbitrary se	nodules, Arbitrary semester nester emester
Classes and lectures:Workload:• Sustainable Power Supply (lecture, 2 SWS)• 60 Hours work on project• Sustainable Power Supply (seminar and project work, 2 SWS)• 50 Hours in-classroom work• 10 Hours excursion		n project room work on	
Contents of teaching: • • • • • • • • •			
Qualification-goals/Compete • •	encies:		
Grading through: • presentation • Oral examination			
Responsible for this module: • Prof. Dr. Martin Leucker Teacher: • Institute of Software Te • Dr. Matthias Meinefeld	r echnology and Programming Languages		
Literature: • Energy Institute (El): St. • BDEW: Die Energievers	atistical Review of World Energy - https:/ orgung 2023 Jahresbericht - hhttps://v	//www.energyinst.org/statis vww.bdew.de/service/publi	stical-review ikationen/jahresbericht-energieversorgung/
Language: • offered only in German	1		
Notes:			



Admission requirements for taking the module: - None

Admission requirements for participation in module examination(s): - Presentation during the semester as specified at the beginning of the semester

Module examination(s):

- PS5010-L1: Sustainable energy supply, oral examination, 100% of the (non-existent) module grade

This module will be offered for the last time in winter semester 2024/25.



PS5810-KP04, PS5810 - Scientific Teaching and Tutoring (WLehrKP04)				
Duration:	Turnus of offer:		Credit points:	
1 Semester	irregularly		4 (Тур В)	
Tsernester (1) rregulariy (4 (1) p b) Course of study, specific field and term: Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester Master Computer Science 2019 (optional subject), interdisciplinary competence, Arbitrary semester Master Entrepreneurship in Digital Technologies 2020 (optional subject), interdisciplinary competence, Arbitrary semester Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester Master CLS 2016 (optional subject), Interdisciplinary modules, 3rd semester Master Entrepreneurship in Digital Technologies 2014 (optional subject), interdisciplinary competence, Arbitrary semester Master Media Informatics 2014 (optional subject), interdisciplinary competence, Arbitrary semester Master MES 2014 (optional subject), no specific field, 1st or 2nd semester Master Computer Science 2014 (optional subject), interdisciplinary competence, Arbitrary semester Master Computer Science 2014 (optional subject), interdisciplinary competence, Arbitrary semester 				
Classes and lectures:		Workload:		
 Theory and Practice of Good Teaching (seminar, 1 SWS) Work as a tutor in a lecture (practical course, 2 SWS) 		 60 Hours private studies and exercises 45 Hours oral presentation (including preparation) 15 Hours in-classroom work 		
 Contents of teaching: Organizing and running a scientific lecture Basic didactics of scientific teaching Practical work in tutorials 				
 Qualification-goals/Competencies: The participants are able to lead a student working group and to communicate technical issues to it appropriately. Basic pedagogical and didactical skills 				
Grading through:• continuous participation in all courses of the module				
Responsible for this module: • Prof. Dr. rer. nat. Nico Bunzeck • Prof. Dr. rer. nat. Jürgen Prestin Teacher: • Institute for Mathematics • PD Dr. rer. nat. Jörn Schnieder • Alle prüfungsberechtigten Dozentinnen/Dozenten des Studienganges • Corinna Lütsch				
Language:				
Notes:			- 4	
The course instructor in charge of the respective course will issue a cortificate of achievement for the module				



PY0000-KP02 - Study in a healthy way (GDSSOZMED)				
uration: Turnus of offer:			Credit points:	
1 Semester	each winter semester		2	
Course of study, specific field and term: Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester 				
Classes and lectures: Workload				
 Healthy studying lecture (lecture, 1 SWS) Healthy studying course (seminar, 1 SWS) 		 30 Hours work on project 30 Hours in-classroom work		
Contents of teaching:				
Grading through: • B-Certificate (not graded) • continuous participation (>80%)				
Responsible for this module: • Prof. Dr. Till Utesch Teacher: • Institute for Social Medicine and Epid • Institute of Anatomy • Prof. Dr. Till Utesch • Dr. med. Imke Weyers • Katrin Obst, DiplPsych.	lemiology			
Literature: • : • : • : Language: • offered only in German				



PY3215-KP04 - Music and the Brain (MaB)				
Duration: Turnus of offer:			Credit points:	
1 Semester each winter semester 4				
Course of study, specific field and term: • Bachelor Interdisciplinary Courses for • Bachelor Interdisciplinary Courses (op	r health sciences (optional s ptional subject), psychology	ubject), psychology, Arbitı ı, Arbitrary semester	rary semester	
Classes and lectures:Workload:• PY3215-S: Music and the Brain (seminar, 2 SWS)• 90 Hours private studies • 30 Hours in-classroom work			studies room work	
Contents of teaching:				
 Special musical abilities: synesthesia Deficits in musical perception and pr Motor control while making music an Therapeutic use of music Music performance anxiety and men Music and memory, attention, and end 	and perfect pitch rocessing: amusia and music nd corresponding movemen tal health in musicians motion	cal anhedonia nt disorders (focal dystonia	a)	
Qualification-goals/Competencies:				
 The students gain knowledge in percentary gain the ability to present scient The students receive competences in structured work in small groups with 	ception, processing, produc ntific and clinical results, as n personal development, es n different backgrounds of p	tion of music in humans well as the critical discussic pecially regarding the com profession	on about research and publications Imunication and cooperation in a team by	
Grading through: • presentation				
Responsible for this module:				
Prof. Dr. rer. nat. Daniel S. Scholz				
Teacher:				
University of Music Lübeck				
externe Referent*innen				
 Literature: Altenmüller, E., Furuya, S., Scholz, D. S., & Ioannou, C. I. (2019): Brain Research in Music Performance - In M. H. Thaut & D. A. Hodges (Eds.), The Oxford Handbook of Music and the Brain (pp. 458–486). Oxford University Press, (2019) Münte, T. F., Altenmüller, E., & Jäncke, L. (2002): The musician s brain as a model of neuroplasticity - Nature Reviews Neuroscience, (2002) Vuust, P., Heggli, O. A., Friston, K. J., & Kringelbach, M. L.: Music in the brain - Nature Reviews Neuroscience, (2022) 				
Language:				
English, except in case of only German-speaking participants				
Notes:				
Admission requirements for taking the - None	module:			
Admission requirements for participation in module examination(s): - Successful seminar design in groups of 3 or 4 as specified at the beginning of the semester				
Module Exam(s): - PY3215-L1: Music and the Brain, presentation, 100% of the (non-existent) module grade				