UNIVERSITÄT ZU LÜBECK

Module Guide for the Study Path

Bachelor Interdisciplinary Courses

Version from 3. April 2023

Arbitrary semester

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 term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor Computer Science 2019 (compulsory), interdisciplinary competence, 3rd semester
- Bachelor Medical Informatics 2014 (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor Medical Informatics 2019 (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor Computer Science 2016 (compulsory), interdisciplinary competence, 3rd semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Media Informatics 2014 (optional subject), interdisciplinary competence, 5th or 6th semester
- Bachelor Computer Science 2014 (compulsory), interdisciplinary competence, 3rd semester

Classes and lectures:

- Tools for scientific practice (seminar-style lectures, 2 SWS)

Workload:

- 30 Hours private studies
- 30 Hours in-classroom work

Contents of teaching:

- Programming language Python
- Markup languages (LaTeX, Markdown)
- User Interfaces and Integrated Development Environments (Jupyter Notebook)
- Software for version control (git)
- digital libraries search (DBLP, ACM, IEEE)Scientific Computing (NumPy, SciPy)
- Data processing and visualization (Pandas, matplotlib, NLTK)
- Machine Learning (scikit-learn)
- DeepLearning (Tensorflow, PyTorch)

Qualification-goals/Competencies:

- The students know diverse technical tools for scientific work.
- They can apply important technical tools from the Python Ecosystem.
- They can handle version control and markup languages.
- They are able to select appropriate tools.

Grading through:

- exercises and project assignments

Is requisite for:

- Bachelor Thesis Computer Science (CS3990-KP15, CS3990)
- Bachelor Project Computer Science (CS3701-KP05, CS3701SJ14)
- Bachelor Seminar Informatics (CS3702-KP04, CS3702)

Responsible for this module:

- Studiengangsleitung Informatik

Teacher:

- Institute of Information Systems
- Alle prüfungsberechtigten Dozentinnen/Dozenten des Studienganges

Language:

- German and English skills required

Notes:

Prerequisites for attending the module:
- None

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:

- Quality Management (lecture, 2 SWS)

Workload:

- 60 Hours private studies
- 30 Hours in-classroom 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 concept of quality management
- They understand the composition and organisation of a QM-system

Grading through:

- written exam

Responsible for this module:

- Prof. Dr. med. Christian Sina

Teacher:

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Literature:

- :

Language:

- offered only in German

GW3260-KP04 - Sociology of health (SodGH)

Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester

Classes and lectures:

- Sociology of health (seminar, 2 SWS)

Workload:

- 90 Hours private studies
- 30 Hours in-classroom work

Contents of teaching:

- Explanatory approaches and concepts of health and disease
- Social construct of health and illness
- Social and cultural influences on health opportunities and disease risks
- Social determinants of health and health care
- Lifelong perspectives on health
- Health from a Gender Perspective
- Media construction of health

Qualification-goals/Competencies:

- The students can describe different social science explanatory models of health and illness
- Students can reflect and critically analyze the social and socio-cultural causes and contexts of health and illness and their unequal distribution in society
- The students can explain and analyze health risk constellations as well as the conditions under which socially unequal health opportunities arise over the course of a lifetime.
- Students can critically discuss the influence of social media on health.
- Students reflect on their own understanding of health and illness against the background of social science theories and models.

Grading through:

- continuous, successful participation in course, >80%

Responsible for this module:

- Prof. Dr. phil. Dipl.-Soz. Katja Götz

Teacher:

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- Prof. Dr. phil. Dipl.-Soz. Katja Götz

Literature:

- 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

Notes:

Prerequisites for attending the module:
- None

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

LS2807-KP04 - Philosophy of Science (WissTheo)

Duration:	Turnus of offer:	Credit points:
1 Semester	every summer semester	4

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor MLS 2018 (optional subject), life sciences, 4th semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor MLS 2016 (optional subject), life sciences, 4th semester

Classes and lectures:

- Basic of evolution theory: Historical and phylosophical perspectives (lecture, 2 SWS)
- Basic of evolution theory: Historical and phylosophical perspectives (seminar, 1 SWS)

Workload:

- 75 Hours private studies
- 45 Hours in-classroom work

Contents of teaching:

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Qualification-goals/Competencies:

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Grading through:

- oral presentation and essay

Responsible for this module:

- Dr. phil. Staffan Müller-Wille

Teacher:

- Institute for History of Medicine and Science Studies

- Dr. phil. Staffan Müller-Wille
- Prof. Dr. med. Cornelius Borck
- Prof. Dr. rer. nat. Burghard Weiss
- Prof. Dr. phil. Christoph Rehmann-Sutter
- Prof. Dr. phil Christina Schües
- Dr. phil. Leonhard Menges
- Dr. rer. nat. Schult

Literature:

- S. Shapin: Die wissenschaftliche Revolution - Frankfurt a.M. 1998
- M. Hagner: Ansichten der Wissenschaftgeschichte - Frankfurt a.M., 2001
- I. Hacking: Einführung in die Philosophie der Naturwissenschaften - Stuttgart 1983
- Rheinberger, Hans-Jörg: Historische Epistemologie zur Einführung - Hamburg 2007
- U. Krohs und G. Toepfer: Philosophie der Biologie: Eine Einführung - Frankfurt a.M. 2005.
- I. Jahn: Grundzüge der Biologiegeschichte - Jena 1990
- K. Köchy: Biophilosophie zur Einführung - Hamburg 2008
- A. Brenner: Leben. Grundwissen Philosophie - Stuttgart 2009

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 higher education, work and society (seminar, 3 SWS)

Workload:

- 44 Hours in-classroom work
- 40 Hours private studies
- 35 Hours group work

Contents of teaching:

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Qualification-goals/Competencies:

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Grading through:

- continuous, successful participation in course

Responsible for this module:

- Prof. Dr. rer. nat. Till Tantau

Teacher:

- International Office
- Dr. Imke Lode
- Matthias Holzum

Literature:

- Ogette, Tupoka: exitRACISM. rassismuskritisch denken lernen
- Gabriele Winker, Nina Degele: Intersektionalität: Zur Analyse sozialer Ungleichheiten
- :

Language:

- offered only in German

PS1100-KP06 - Social and Economic Aspects of Sustainability (OekoNach)

Duration:	Turnus of offer:	Credit points:
2 Semester	beginning each winter semester	6

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 competence, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), interdisciplinary competence, Arbitrary semester

Classes and lectures:

- PS1100-V: Sustainable Bioeconomy (lecture, 1 SWS)
- EC4008-V: Entrepreneurship & Innovation (lecture, 3 SWS)
- PS1102-V: Social Classification of Sustainability Science (lecture, 1 SWS)
- PS1100-S: Social and Economic Aspects of Sustainability (seminar, 1 SWS)

Workload:

- 90 Hours in-classroom work
- 90 Hours private studies

Contents of teaching:

- The idea of sustainable development and its historical classification
- Foundations for theoretical concepts of sustainable development
- Fundamentals of sustainable development and its scientific resonance
- Basic concepts of sustainability ethics
- Fundamentals of the philosophy of science and transdisciplinary research
- Specific aspects of the methodology of sustainability science
- Corporate Sustainability, Entrepreneurship & Innovation
- Presentation and discussion of selected fields of action: Sustainability through climate protection using the example of peatland restoration, sustainable water management, cost avoidance through flood and coastal protection in Germany
- Connection between bioeconomy and sustainability using exemplary examples: The origin of biomass, the use of biomass for the production of fuel and chemicals, the bioeconomy from the perspective of innovation economics, the bioeconomy as a circular and interconnected system.
- Criteria for the success of the bioeconomy

Qualification-goals/Competencies:

- Students can understand the topics of sustainability, bioeconomy and biotechnology and explain them using examples
- They master the basics for the ecological, social and economic assessment of the sustainability of technological developments
- They have an understanding of which processes are sustainable in which areas (business, medicine, research, transfer) and which criteria they must meet
- They understand the bioeconomy system and the specifics of a sustainable bioeconomy
- They master the essential basics of ecology and its economic classification
- They understand the importance of the bioeconomy and sustainability in the field of entrepreneurship (management, digital economy, business management and spin-offs).
- They gain a general understanding of sustainability science and learn about its importance for society and current and future economic developments

Grading through:

- portfolio exam

Responsible for this module:

- Prof. Dr. rer. nat. Charlie Kruse

Teacher:

- Institute for Entrepreneurship and Business Development
- Institute of Medical and Marine Biotechnology

- Prof. Dr. Christian Scheiner
- Prof. Dr. rer. nat. Charlie Kruse
- Dr. rer. nat. Daniel Hans Rapoport
- Dr. rer. nat. Sandra Schumann

- Dr. rer. nat. Philipp Ciba
- Dr. rer. nat. Anna Matthießen

Literature:

- Harald Heinrichs, Gerd Michelsen: Nachhaltigkeitswissenschaften - Springer Spektrum; 2014
- Joachim Pietzsch: Bioökonomie für Einsteiger - Springer Spektrum; 1. Aufl. 2017 Edition

Language:

- offered only in German

Notes:

Admission requirements for taking the module:
- No formal, but knowledge of natural sciences is required.

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

Module Exam(s):
- PS1100-L1: Social and Economic Aspects of Sustainability, portfolio examination consisting of: 15 marks in the form of an individual term paper, 45 marks in the form of a semester presentation and 40 marks in the form of the written examination. The grade is calculated as follows: 50 to 54 points for a 4.0, then 55 to 59 points for a 3.7, and so on until the end 95 to 100 points for a 1.0.

Not for students of the Master's program Entrepreneurship in Digital Technologies

PS1500-KP05 - Sustainability Science with Focus on Ecology & Biotechnology (NachWiss)

Duration:	Turnus of offer:	Credit points:
1 Semester	every summer semester	5

Course of study, specific field and term:

- Master Interdisciplinary Courses (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), interdisciplinary competence, Arbitrary semester

Classes and lectures:

- PS1500-V: Sustainability Science (lecture, 2 SWS)
- PS1500-S: Sustainability Science (seminar, 1 SWS)
- PS1500-Ü: Sustainability Science (exercise, 1 SWS)

Workload:

- 90 Hours private studies
- 60 Hours in-classroom work

Contents of teaching:

- Introduction to scientific perspectives on sustainability
- Basic concepts of ecosystem and biodiversity
- Foundations for food security and healthy nutrition in the context of the bioeconomy
- Review of the importance of biotechnology for the bioeconomy
- Significance of chemical substances in the environment
- Basics of global material cycles (earth system, climate)
- Conditions for a sustainable bioeconomy
- Basics on the importance of transgenic animals and plants

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

Grading through:

- portfolio exam

Requires:

- Social and Economic Aspects of Sustainability (PS1100-KP06)

Responsible for this module:

- Prof. Dr. rer. nat. Charlie Kruse

Teacher:

- Institute of Medical and Marine Biotechnology

- Prof. Dr. rer. nat. Charlie Kruse
- Dr. rer. nat. Daniel Hans Rapoport
- Dr. rer. nat. Sandra Schumann
- Dr. rer. nat. Philipp Ciba
- Dr. rer. nat. Anna Matthießen

Literature:

- Harald Heinrichs, Gerd Michelsen: Nachhaltigkeitswissenschaften - Springer Spektrum; 2014
- Joachim Pietzsch: Bioökonomie für Einsteiger - Springer Spektrum; 1. Aufl. 2017 Edition
- Reinhard Renneberg, Darja Süßbier, Viola Berkling, Vanya Loroch: Biotechnologie für Einsteiger - Springer Spektrum; 5. Aufl. 2018

- Daniela Thrän, Urs Moesenfechtel: Das System Bioökonomie - Springer Spektrum; 1. Aufl. 2020

Language:

- offered only in German

Notes:

Admission requirements for taking the module:
- PS1100-KP06 successfully completed

Admission requirements for participation in module examination(s):
- Successful participation in the seminar with lecture

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. The grade is calculated as follows: 50 to 54 points for a 4.0, then 55 to 59 points for a 3.7, and so on until the end 95 to 100 points for a 1.0.

PS4620-KP04, PS4620SJ14 - Ethics of Sciences (EthikKP04)

Duration:	Turnus of offer:	Credit points:
1 Semester	each summer semester	4 (Typ B)

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester
- Master Medical Informatics 2019 (optional subject), interdisciplinary competence, 1st or 2nd semester
- Bachelor MES 2014 (optional subject), no specific field, Arbitrary semester
- Master MES 2014 (optional subject), no specific field, 1st or 2nd semester
- Master Medical Informatics 2014 (optional subject), interdisciplinary competence, 1st or 2nd semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester

Classes and lectures:

- Ethics in the Life Sciences (seminar, 2 SWS)

Workload:

- 65 Hours private studies
- 30 Hours in-classroom work
- 25 Hours work on an individual topic with written and oral presentation

Contents of teaching:

- Societal and ethical implications of research in biomedical sciences and technologies
- Basics of philosophy and sociology of science
- Good scientific practice
- Basics of bioethics: duties of investigators, obligations to colleagues,
- Ethics of human subjects research and animal experiments, environmental ethics. Governance of technology,risk assessement
- Neuroethics
- Ethics of AI and robotics

Qualification-goals/Competencies:

- Students can explain the methodology of the physical sciences and technology and their philosophical basis
- They can recognize ethical dimensions of practice and deciding
- They can identify and assess ethical dimensions of action and decision-making in biotechnology and AI
- They can understand relevant laws in Germany
- They can participate in current discussions in bioethics and research ethics
- They can reflect on ethical dimensions of biomedical sciences

Grading through:

- continuous, successful participation in course

Responsible for this module:

- Prof. Dr. phil. Christoph Rehmann-Sutter

Teacher:

- Institute for History of Medicine and Science Studies

- Prof. Dr. med. Cornelius Borck
- Prof. Dr. phil. Christoph Rehmann-Sutter
- Prof. Dr. phil. Christina Schües
- Dr. phil. Frank Wörler

Literature:

- Urban Wiesing (Hg.):: Ethik in der Medizin. Ein Studienbuch - Stuttgart: Reclam 5. Aufl. 2020
- Ben Mepham: Bioethics. An Introduction for the Biosciences - Oxford: Oxford University Press 2008
- Jennifer A. Parks, Victoria S. Wike: Bioethics in a Changing World - Upper Saddle River, N.J.: Prentice Hall, 2010

Language:

- offered only in English

Notes:

Prerequisites for attending the module:
- None

Prerequisites for the exam:
- Writing an essay and giving a lecture

PS4630-KP04 - Ethics of Innovative Technologies (EthikIT)

Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4

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 competence, Arbitrary semester

Classes and lectures:

- Ethics of Innovative Technologies (seminar, 1 SWS)
- Ethics of Innovative Technologies (lecture, 2 SWS)

Workload:

- 30 Hours group work
- 30 Hours in-classroom work
- 30 Hours private studies
- 30 Hours written report

Contents of teaching:

- Basic concepts and methods of ethics
- Ethical decision-making models
- Autonomous systems in the context of social change
- Case studies of new and unresolved ethical issues due to modern and emerging technologies

Qualification-goals/Competencies:

- Students recognise ethical problems and can formulate them concretely and precisely.
- Students will be able to analyse future and existing technologies with regard to associated ethical issues.
- Students can evaluate decisions in case studies on the basis of different ethical models.
- Students can argue ethically and represent their opinion in discussions.
- The students are familiar with fundamental future ethical issues regarding robotisation and the development of autonomous systems and artificial intelligences.

Grading through:

- continuous, successful participation in course

Responsible for this module:

- Dr.-Ing. Christian Herzog

Teacher:

- Institute for Electrical Engineering in Medicine
- Dr.-Ing. Christian Herzog

Literature:

- : various topic-related and current literature

Language:

- German and English skills required

Notes:

Admission requirements for taking the module:
- None

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

Module Exam(s):
- Submissions in groups will be required periodically during the semester, accounting for 20% of the final assessment.
- At the end of the semester a report incl. a presentation (80%) is required, whereby the respective individual performance must be identified and will be evaluated separately.
- The evaluation of the report is determined from: 70% individual 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:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4 (Typ B)

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

Classes and lectures:

- Studium Generale (, 1 SWS)
- Studium Generale (seminar, 1 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 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. med. Cornelius Borck
- 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 Racism and other -Isms (RassIs)

Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4 (Typ B)

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), Interdisciplinary modules, Arbitrary semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary 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 discussion on racism
- Conceptual reappraisal of the historical, cultural and social background of e.g. race, gender or eugenics
- Reading and discussion of scientific texts
- Development of perspectives critical of racism

Qualification-goals/Competencies:

- Students can understand and evaluate the structures of concepts and arguments
- Increasing their ability to analyse, reflect and argue
- Expanding the knowledge in a subject area that is cross-disciplinary
- Development of a philosophical, historical and cultural-theoretical understanding of the social contexts of psychology, medicine, natural and life sciences.

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

Literature:

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Language:

- German and English skills required

Notes:

Prerequisites for attending the module:
- None

Prerequisites for the exam:
- Written preparation and giving a lecture during the semester

PS5010-KP04 - Sustainable Power Supply (EnergieZuk)

Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	4 (Typ B)

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses for health sciences (optional subject), Interdisciplinary modules, Arbitrary semester
- Master Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester

Classes and lectures:

- Sustainable Power Supply (lecture, 2 SWS)
- Sustainable Power Supply (seminar and project work, 2 SWS)

Workload:

- 60 Hours work on project
- 50 Hours in-classroom work
- 10 Hours excursion

Contents of teaching:

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Qualification-goals/Competencies:

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Grading through:

- presentation
- Oral examination

Responsible for this module:

- Prof. Dr. Martin Leucker

Teacher:

- Institute of Software Technology and Programming Languages
- Dr. Matthias Meinefeld

Literature:

- BP: BP Statistical Review of World Energy 2019 - https://www.bp.com/content/dam/bp/business-sites/en/global/corporate/pdfs/energy-economics/statistical-review/bp-stats-review-2019-full-report.pdf
- BDEW: Energiemarkt Deutschland 2019 - https://www.bdew.de/media/documents/Pub_20190603_BDEW-Energiemarkt-Deutschland-2019.pdf

Language:

- offered only in German

PS5810-KP04, PS5810 - Scientific Teaching and Tutoring (WLehrKP04)

Duration:	Turnus of offer:	Credit points:
1 Semester	irregularly	4 (Typ 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
- 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
- Bachelor MES 2014 (optional subject), no specific field, Arbitrary semester
- Master Computer Science 2014 (optional subject), interdisciplinary competence, Arbitrary semester
- Master CLS 2010 (optional suject), interdisciplinary competence, 3rd semester
- Master Computer Science 2012 (optional subject), interdisciplinary competence, Arbitrary semester

Classes and lectures:

- Theory and Practice of Good Teaching (seminar, 1 SWS)
- Work as a tutor in a lecture (practical course, 2 SWS)

Workload:

- 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
- Dr. rer. nat. Jörn Schnieder
- Alle prüfungsberechtigten Dozentinnen/Dozenten des Studienganges
- Corinna Lütsch

Language:

- depends on the chosen courses

Notes:

The seminar must be attended before working as a tutor. This activity cannot be remunerated.

The course instructor in charge of the respective course will issue a certificate of achievement for the module.

PY0000-KP02 - Study in a healthy way (GDSSOZMED)

Duration:	Turnus of offer:	Credit points:
1 Semester	each winter semester	2

Course of study, specific field and term:

- Bachelor Interdisciplinary Courses (optional subject), Interdisciplinary modules, Arbitrary semester
- Bachelor Interdisciplinary Courses for health sciences (optional subject), interdisciplinary competence, Arbitrary semester

Classes and lectures:

- Healthy studying lecture (lecture, 1 SWS)
- Healthy studying course (seminar, 1 SWS)

Workload:

- 30 Hours work on project
- 30 Hours in-classroom work

Contents of teaching:

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Qualification-goals/Competencies:

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Grading through:

- continuous participation (>80%)

Responsible for this module:

- Prof. Dr. med. Edgar Voltmer

Teacher:

- Institute for Social Medicine and Epidemiology
- Institute of Anatomy

- PD Dr. med. Thomas Kötter, MPH
- Dr. med. Imke Weyers
- Juliana Wiechert, Dipl.-Psych.
- Katrin Obst, Dipl.-Psych.

Literature:

- :
- :
- :

Language:

- offered only in German