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search results faculty/field "Faculty of Health Sciences and Medicine", Study level "Bachelor, Master", language "Englisch", semester "HS23"

courses

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HS231192	VLUEB	Boes	Applied Health Economics and Econometrics	we. Th, 09:15 - 12.00	div.	3
HS231460	MSE	Brinkhof; Anderson	Longitudinal and Life Course Epidemiology		div.	4
HS231180	VL	Colledge	Mental Health	we. Fr, 12:30 - 14.00	div.	5
HS231459	VLS	Colledge / Dawson-Townsend	English in the Health Sciences	we. Mo, 10:15 - 12.00	4.B51	6
HS231666	MKOL	Dawson-Townsend	Master Colloquium Health Sciences I		4.B02	7
HS231010	VLS	Dawson-Townsend	Introduction to Research Methods	we. Mo, 12:30 - 14.00	div.	8
HS231219	MSE	Dawson-Townsend / Lordemus / Strobl / Weisstanner	Topics in Health and Social Policy		div.	9
HS231186	VL	Diviani / Zanini	Infodemic Management	we. Th, 12:30 - 14.00	div.	10
HS231189	MSE	Diviani; Mantwill	Evidence-Informed Policy and Stakeholder Dialogue		div.	11
HS231003	MSE	Farnham; Ziegler	Introduction to Public Health	we. Mo, 08:15 - 12.00	div.	12
HS231663	VLS	Havranek	Health Data Challenge			13
HS231002	VL	Hofstetter Furrer / Kauer	Basic Research Methods	we. We, 08:15 - 12.00	div.	13
HS231222	SEM	Kauer	International Comparison of Health Care Systems	we. We, 10:15 - 12.00	div.	15
HS231221	WOS	Kauer	Health Impact Assessement	we. We, 16:15 - 18.00	3.B52	16
HS231194	MSE	Lehnick	Clinical Trials - Elements and Ethics			17
HS231630	VL	Lordemus	Global Health Economics	we. We, 08:15 - 10.00	div.	18
HS231220	SEM	Lüscher	MHealth: Changing Health with Mobile Technology	we. Mo, 12:30 - 16.00 14-daily Mo, 12:30 - 16.00	div.	19
HS231421	VL	Montoya	Introduction to Artificial Intelligence	we. Th, 14:15 - 16.00	div.	20
HS231004	MSE	Pacheco Barzallo / Gemperli	Health Systems and Services	we. Tu, 12:30 - 16.00	div.	21
HS231191	MSE	Reinhardt	Public Health and Social Impact of Epidemics: COVID-19 as a case in point		ZOOM	22
HS231218	MSE	Rubinelli	Professional Development	we. We, 12:30 - 14.00	4.B55	23
HS231185	VL	Rubinelli	Institutional Health Communication	we. Th, 14:15 - 16.00	div.	24
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HS231195	MSE	Scheel-Sailer	Principles and Practice of Clinical Quality Management		div.	26
HS231179	VL	Schumacher Dimech / Volm	An Introduction to Gender Medicine: Multidisciplinary Perspectives	we. Mo, 10:15 - 12.00	div.	27
HS231190	MSE	Schwegler; Debnar; Galvis	Stress, Coping and Health		div.	28
HS231177	VL	Seijas Bermudez	Introduction to Clinical Rehabilitation	we. We, 14:15 - 16.00	div.	29
HS231193	MSE	Stoyanov / Flück / Gemperli	Evidence-Based Medicine and its Roots	we. Fr, 08:15 - 16.00	div.	30
HS231005	MSE	Stucki; Bickenbach; Sabariego Tomas; Zanini	Human Functioning Sciences	we. Th, 08:15 - 12.00	div.	31
HS231188	VLS	Weisstanner	Health Inequality and Public Policy	we. Tu, 12:30 - 14.00 we. Tu, 10:15 - 12.00	div.	32
HS231589	VLUEB	Zito	Basics of Neuroscience: From Brain to Cognition	we. Tu, 08:15 - 10.00	div.	33

Basics in Clinical Medicine

Lecturer	Prof. Dr. med. Reto Babst Dr. med. Christian Schirlo, MME
Type of course	Master seminar
Code	HS231001
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Tu, 19.09.2023, 08:15 - 12:00, 4.A05 Tu, 26.09.2023, 08:15 - 12:00, HS 3 Tu, 03.10.2023, 08:15 - 12:00, 4.A05 Tu, 10.10.2023, 08:15 - 12:00, 4.A05 Tu, 17.10.2023, 08:15 - 12:00, 4.A05 Tu, 24.10.2023, 08:15 - 12:00, 4.A05 Tu, 31.10.2023, 08:15 - 12:00, 4.A05 Tu, 07.11.2023, 08:15 - 12:00, 4.A05 Tu, 14.11.2023, 08:15 - 12:00, 4.A05 Tu, 12.12.2023, 08:15 - 12:00, 4.A05
Further dates	Mandatory for all students.
Duration	4 hours per week per semester
Course content	This course provides an introduction to the roles of physicians according to PROFILES, the framework of learning objectives for medical students in Switzerland. Moreover, the course describes basic concepts of clinical medicine, with a particular focus on evidence-based medicine. During the lectures, basics in anatomy and physiology of the organ systems will be taught. Based on exemplary cases, epidemiologically relevant diseases (e.g. diabetes, obesity, cardiovascular diseases, drug abuse, acute and degenerative locomotor disease, carcinoma, and so on), their pathophysiology, symptoms, diagnostic steps, and treatment options as well as interprofessional prevention strategies will be discussed. We will also look at the effects and consequences of these conditions for the individual patient, the involved relatives and their daily life. If possible, there will be a site visit at a hospital or ambulatory health care institution, either self-organized by the students or by the course direction.
Learning objectives	After completing the course, the participants are able: a. to describe the different roles of physicians and to discuss basic concepts in clinical medicine (evidence-based medicine, clinical reasoning) b. to explain the consequences of disease for patients and their families, and to understand and integrate their perspective c. to gain an overview of epidemiologically relevant disease entities, their main pathophysiological mechanisms and symptoms based on the anatomical and physiological basics
Prerequisites	Overall grade of 4.0 or better.
Language	English
Limitation	priority Master Health Sciences students.
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=648
Exam	Final written assignment; structured patient / case presentation.
Type of exam	Final written assignment; structured patient / case presentation. / 6 Credits
Note	Teaching method(s): Longitudinal course with interactive lectures, group work and discussions of the patient cases.
Auditors	Yes
Contact	reto.babst@unilu.ch / christian.schirlo@unilu.ch
Material	Teaching material is based on slides, worksheets, and selected book chapters. Teaching material is provided via the e-learning platform moodle.

Applied Health Economics and Econometrics

Lecturer	Prof. Dr. Stefan Boes
Type of course	Lecture/Exercise
Code	HS231192
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Th, 21.09.2023, 09:15 - 12:00, 4.B54 Th, 28.09.2023, 09:15 - 12:00, 4.B54 Th, 05.10.2023, 09:15 - 12:00, 4.B54 Th, 12.10.2023, 09:15 - 12:00, 4.B54 Th, 19.10.2023, 09:15 - 12:00, 4.B54 Th, 26.10.2023, 09:15 - 12:00, 4.B54 Th, 09.11.2023, 09:15 - 12:00, 4.B54 Th, 16.11.2023, 09:15 - 12:00, 4.B54 Th, 23.11.2023, 09:15 - 12:00, 4.B54 Th, 30.11.2023, 09:15 - 12:00, 4.B54 Th, 07.12.2023, 09:15 - 12:00, 4.B54 Th, 14.12.2023, 09:15 - 12:00, 4.B54 Th, 21.12.2023, 09:15 - 12:00, 4.B54 Tu, 23.01.2024, 14:00 - 15:30, HS 9 (Examination)
Duration	4 hours per week per semester
Course content	The course introduces key methods used in applied health economic and policy research. Starting from a specific challenge or issue in the health system, theoretical and empirical approaches will be discussed to study the underlying phenomena, with a focus on quantitative research and the use of appropriate study designs to inform the questions of interest. Topics include describing and summarizing health data, the analysis of the demand for health care, socio-economic inequalities in health and related behaviors, public opinions on health and social policies, modeling of the dynamics of health and insurance decisions, and the empirical evaluation of public policy interventions, such as smoking bans, changes in the eligibility for disability insurance, cost-sharing in health insurance, self-dispensation of physicians and supplier-induced demand, and the financing of inpatient care.
Learning objectives	i) to learn and practice the methodology needed to conduct applied research in health economics and health policy, ii) to apply theoretical and empirical approaches to study the health care market and to evaluate public health interventions, iii) to discuss and critically assess current research in the field.
Prerequisites	Grade 4.0 or better
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=657
Exam	Written examination (50%) and homework assignment (50%)
Type of exam	Written examination (50%) and homework assignment (50%) / 6 Credits
Note	Teaching methods: Blended learning with lectures, tutorials, and in-class presentations
Auditors	Yes
Contact	stefan.boes@unilu.ch
Material	Slides, scientific articles, selected book chapters, data and software code All teaching material will be provided via the e-learning platform moodle

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Longitudinal and Life Course Epidemiology

Lecturer	Dr. Martin Brinkhof Collene Anderson, MA Dr. sc. Collene Anderson
Type of course	Master seminar
Code	HS231460
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Fr, 17.11.2023, 08:15 - 10:00, 3.B48 Fr, 17.11.2023, 10:15 - 12:00, HS 5 We, 22.11.2023, 12:30 - 16:00, 3.B58 We, 29.11.2023, 12:30 - 16:00, 3.B58 We, 06.12.2023, 12:30 - 16:00, 3.B58 We, 13.12.2023, 12:30 - 16:00, 3.B58 We, 20.12.2023, 12:30 - 16:00, 3.B58 Th, 25.01.2024, 14:00 - 15:30, HS 1 (Examination)
Further dates	The prerequisites include a basic knowledge of epidemiology and statistics, including linear and logistic regression, as covered in the 'Statistics and Epidemiology' and 'Quantitative Methods' courses at the University of Lucerne Health Sciences program, or other equivalent courses.
Duration	2 hours per week per semester
Course content	The six blocks will cover the following issues: Block 1: Through the historical lens, students will learn to shift from individual towards population thinking. The historical perspective will particularly set the student up towards understanding the demand and rationale for the progression towards a comprehensive LCE approach. Block 2: Students are introduced to basic longitudinal data analysis techniques, notably time-to-event analysis (also known as survival analysis). Block 3: This session will go more in depth on the framework of prognostic research, including the aspects of internal and external validity, and provide an overview of prognostic modelling and its applications. Block 4: The importance of theory and conceptual frameworks for causal thinking; the link between study design and strength of epidemiological evidence; and an introduction to causal inference through the application of Directed Acyclic Graphs. Block 5: This session will introduce students to the building blocks of life course epidemiology and subsequently underscore the need to employ life course methodology to gain a comprehensive understanding of functioning, disability, and health. Block 6: Bringing everything together: connecting study design to data analysis, student presentations.
Tags	Sustainability
E-learning	All teaching material (except books) will be provided via the e-learning platform Moodle.
Learning objectives	Life Course Epidemiology (LCE) is an evolving field of epidemiology that is concerned with the long-term biological, behavioral and psychosocial processes that link adult health and disease risk to exposures during earlier time periods. LCE aims to identify how accumulation of risk over time can impact disability, disease and mortality as well as identify targets for preventive health care. LCE is vital to public health as it provides the comprehensive evidence-base needed to inform evidence-based practice and policy decisions. Researchers involved in LCE are concerned with the development of formal, conceptual frameworks that enable a meaningful description of functioning, morbidity and life expectancy within and across populations, as well as over time. An understanding of study design; data collection and statistical analysis, in particular analysis methods for appropriately handling longitudinal data; the interpretation and dissemination of results (peer-reviewed publication); as well as implementation of results into practice is essential for the life course epidemiologist. In the six blocks of "Longitudinal and Life Course Epidemiology," students will learn: 1) Epidemiological theory and methodology: We explain how epidemiological approaches have evolved over the past 350 years in order to provide a reliable evidence base for medical practice and health policy. Highlights will include the shift from individual to group level thinking, and connecting cause and consequence. 2) Causal inference: Through the application of Directed Acyclic Graphs. 3) The significance of classification systems, conceptual frameworks and methodologies for the comprehensive description of functioning, morbidity and mortality over the lifespan. 4) The framework of prognostic research and its application. 5) Basic longitudinal data analysis techniques, with a focus on time-to-event (survival) analysis.
Prerequisites	Interest, enthusiasm and drive to understand epidemiology and public health.
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=654
Exam	Assessments will include presentations in class, homework exercises, and a written final examination
Type of exam	Assessments will include presentations in class, homework exercises, and a written final examination / 3 Credits
Note	Teaching method(s): Interactive lectures incorporating in-class group discussions, practical exercises, and presentations, reinforced with self-teaching (home preparation).
Auditors	Yes
Contact	martin.brinkhof@paraplegie.ch / collene.anderson@doz.unilu.ch
Material	Publications and excerpts from books will serve as basis for individual reading.
Literature	Will be announced well before start of the course.

Mental Health

Lecturer	Dr. Flora Colledge
Type of course	Lecture
Code	HS231180
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	Fr, 22.09.2023, 12:30 - 13:45, HS 8 Fr, 29.09.2023, 12:30 - 14:00, HS 8 Fr, 06.10.2023, 12:30 - 14:00, HS 8 Fr, 13.10.2023, 12:30 - 14:00, HS 8 Fr, 20.10.2023, 12:30 - 14:00, HS 8 Fr, 27.10.2023, 12:30 - 14:00, HS 8 Fr, 03.11.2023, 12:30 - 14:00, HS 8 Fr, 10.11.2023, 12:30 - 14:00, HS 8 Fr, 17.11.2023, 12:30 - 14:00, HS 8 Fr, 24.11.2023, 12:15 - 14:00, 3.A05 Fr, 01.12.2023, 12:30 - 14:00, HS 8 Fr, 15.12.2023, 12:30 - 14:00, HS 8
Duration	2 hours per week per semester
Course content	- Definition of mental health and contributing factors - Categorization and diagnosis of psychiatric and personality disorders - Affective disorders - Personality disorders - Eating disorders - Addictive disorders - Mental health programmes and promotion
Learning objectives	Switzerland is a country with some of the most progressive mental health treatment strategies in the world. However, it has also seen some of the worst outbreaks of mental health disorders in recent history, and a quarter of the population reports suffering from poor mental health. Switzerland is therefore fascinating country in which to study the question of what contributes to our mental health, and the factors which can damage it. This course provides a detailed analysis of mental health and mental illness. Students will learn about good mental health, the various causes of poor mental health and mental disorders, and specific psychiatric and personality disorders. Diagnostic criteria for these disorders will be addressed, and sociocultural components will be explored. Specific attention will be paid to prevalence rates, treatment options, and mental health promotion in Switzerland. Independent study and pursuing individual projects are key features of this course. Students will be given the freedom to choose the topic for their final assignment, and encouraged to carry out original research on innovative questions.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=645
Exam	- Group-led discussion of a scientific paper ("Journal Club") - Short individual presentation on chosen topic - Final paper – option to choose between case study, literature review or interview format
Type of exam	Journal Club, individual presentation, final paper / 3 Credits
Note	Teaching format: - Lecture - Group presentations - Independent reading - Group discussion
Auditors	No
Contact	flora.colledge@unilu.ch
Material	- Articles and materials will be provided via Moodle

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English in the Health Sciences

Lecturer	Dr. Flora Colledge Dr. sc. Kathryn Ann Dawson-Townsend
Type of course	Lecture/Seminar
Code	HS231459
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	Mo, 18.09.2023, 10:15 - 12:00, 4.B51 Mo, 25.09.2023, 10:15 - 12:00, 4.B51 Mo, 09.10.2023, 10:15 - 12:00, 4.B51 Mo, 16.10.2023, 10:15 - 12:00, 4.B51 Mo, 23.10.2023, 10:15 - 12:00, 4.B51 Mo, 30.10.2023, 10:15 - 12:00, 4.B51 Mo, 06.11.2023, 10:15 - 12:00, 4.B51 Mo, 13.11.2023, 10:15 - 12:00, 4.B51 Mo, 20.11.2023, 10:15 - 12:00, 4.B51 Mo, 27.11.2023, 10:15 - 12:00, 4.B51 Mo, 04.12.2023, 10:15 - 12:00, 4.B51 Mo, 11.12.2023, 10:15 - 12:00, 4.B51 Mo, 18.12.2023, 10:15 - 12:00, 4.B51
Further dates	Course enrollment is limited to 25 students and will be administered via Moodle.
Duration	2 hours per week per semester
Course content	- Phrases and vocabulary in medical and health science - Exposure to the four major areas of study in the bachelor program (health promotion and prevention, rehabilitation, management in healthcare and digital health) - Reading strategies, resources for understanding difficult texts - Reading comprehension – summarizing a text in simple terms - Basic rules for clear writing in English - Presentation skills – strategies for preparing a presentation - Presentation skills – speaking with confidence - Discussion in English – comprehension and feedback
Learning objectives	This course is designed to prepare students for courses relating to the health sciences, at the Bachelor level. While many students have a basic knowledge of the English language, they may not feel confident reading articles, writing texts, and expressing themselves in English. This course aims to support students in developing the skills and confidence to participate in the English courses offered by the Department of Health Sciences and Medicine. These skills and competences are also valuable assets for study and work abroad or in international organisations. Students will: - Learn vocabulary and phrases specific to the health sciences - Receive coaching in reading and understanding academic and scientific texts - Learn skills for preparing, rehearsing and giving oral presentations - Develop strategies to build confidence in expressing themselves in written and spoken English This course is intended to support, encourage and motivate students. The aim is not to speak and write perfect English, but to gain the confidence to communicate comfortably in a foreign language.
Language	English
Limitation	Nur für die Studierende die sich vorgängig im Moodle angemeldet haben. Max. 25 Plätze. Die Begrenzung wird via MOODLE nach chronologischer Reihenfolge bzw. Anmeldung administriert. Ab 4. September 2023 möglich sich via MOODLE einzuschreiben. Sobald 25 Teilnehmer: innen eingeschrieben sind, dann wird das Anmeldefenster automatisch geschlossen.
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=638
Exam	Grading is based on active participation and attending at least 10 of the 13 sessions, as well as passing a final written exam. Details on the all the assignments will be provided during the first session, and on Moodle. The final exam counts for 70% of the final grade. Active participation counts for 30%. A passing grade of 4 or higher is required to successfully complete the course and earn 3 ECTS.
Type of exam	written exam / 3 Credits
Note	Teaching methods: - Lecture - Group presentations - Independent reading - Group discussion
Auditors	No
Contact	flora.colledge@unilu.ch / kathryn.dawson@unilu.ch
Material	- Articles and materials will be provided via Moodle

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Master Colloquium Health Sciences I

Lecturer	Dr. sc. Kathryn Ann Dawson-Townsend
Type of course	Master colloquium
Code	HS231666
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Fr, 17.11.2023, 12:30 - 15:00, 4.B02
Further dates	Mandatory for all students (before start of studies 2022) of the Master Health Sciences.
Duration	2 hours per week per semester
Course content	In the Master Colloquium, students have to present their master thesis projects. Each student will present once in fall and once in spring. Presentations in the fall semester (Colloquium I) focus on the background, objective and planned methods of the thesis. Presentations in the spring semester (Colloquium II) provide a brief summary of the results and tentative conclusions. After each presentation, there will be a short discussion, giving students the opportunity to comment and reflect on the presented topic. Students will learn how to review others' work and provide constructive feedback to the presenters. They will also learn how to write reviews of other's scientific work in a brief and constructive way.
E-learning	All teaching material is provided via the e-learning platform Moodle.
Learning objectives	The objectives of the colloquium are: i) to practice scientific presentation and discussion on a competitive academic level on different subjects in the health sciences, ii) to learn how to defend scientific research, and iii) practice giving verbal and written feedback related to scientific research.
Prerequisites	Presentation of project, active participation, completion of one-page summary reviews as assigned.
Language	English
Limitation	Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=685
Exam	This is a pass/fail course. Each student is required to present his/her master thesis project once in the fall and once in the spring semester. Each student will also write two one-page reviews of the presentations of other students. Each student has to be present on all four course days (two days in fall and two days in spring semester).
Type of exam	Active Participation / 3 Credits
Note	Teaching method(s): Student presentations, discussion and feedback, writing brief reviews.
Auditors	No
Contact	kathryn.dawson@unilu.ch
Material	All teaching material is provided via the e-learning platform Moodle.

Introduction to Research Methods

Lecturer	Dr. sc. Kathryn Ann Dawson-Townsend
Type of course	Lecture/Seminar
Code	HS231010
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	Mo, 18.09.2023, 12:30 - 14:00, HS 7 Mo, 25.09.2023, 12:30 - 14:00, HS 7 Mo, 09.10.2023, 12:30 - 14:00, HS 7 Mo, 16.10.2023, 12:30 - 14:00, HS 7 Mo, 23.10.2023, 12:30 - 14:00, HS 7 Mo, 30.10.2023, 12:30 - 14:00, HS 7 Mo, 06.11.2023, 12:30 - 14:00, HS 7 Mo, 13.11.2023, 12:30 - 14:00, HS 7 Mo, 20.11.2023, 12:30 - 14:00, HS 7 Mo, 27.11.2023, 12:30 - 14:00, HS 7 Mo, 04.12.2023, 12:30 - 14:00, HS 7 Mo, 11.12.2023, 12:30 - 14:00, HS 7 Mo, 18.12.2023, 12:30 - 14:00, HS 1 Fr, 19.01.2024, 14:00 - 15:30, HS 1 (Examination) Mo, 03.06.2024, 12:00 - 13:30, HS 4 (Examination resit)
Duration	2 hours per week per semester
Course content	• Introduction to empirical research • Qualitative research (interviews, focus groups, observation) • Quantitative research I (introduction, case studies) • Quantitative research II (case-control, cohort studies) • Quantitative research III (cross-sectional/correlational/ecological studies, trend studies, randomized controlled trials) • Mixed Methods (exploratory, explanatory, parallel) • Types of reviews (systematic, literature, scoping) and meta-analyses • Linking research questions to research designs (how to match the design to a question) • Other types of design classifications • Current trends in research design, pyramid of evidence
Learning objectives	By the end of the semester, students will be able to: - explain the difference between empirical and non-empirical approaches - understand and compare the different types of quantitative, qualitative, and mixed-methods study designs • know their characteristics, advantages and disadvantages • know their terms in English and German - recognize the pyramid of evidence (quantitative designs) - understand other dimensions of research designs - read scientific abstracts and articles (in German and English) and explain their research approach and research questions - understand how research questions are related to research designs - contribute to a group project in which scientific articles are searched and presented with a focus on research designs
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=635
Exam	• 80% final exam (true/false, multiple choice, short answer, essay) • 20% group project
Type of exam	80% final exam (true/false, multiple choice, short answer, essay) / 3 Credits
Note	Teaching and learning formats: • Lectures, worksheet exercises, small group work • Reading from article excerpts • Presentations
Auditors	Yes
Contact	kathryn.dawson@unilu.ch
Literature	Recommended Textbook: Polgar & Thomas (2020). Introduction to Research in the Health Sciences, 7e Optional Textbook: Döring & Bortz (2016). Forschungsmethoden und Evaluation, 5. Auflage Also scientific articles that will be posted on Moodle

Topics in Health and Social Policy

Lecturer	Dr. sc. Kathryn Ann Dawson-Townsend Dr. Samuel Lordemus Dr. rer. pol. Renate Susanna Strobl Ass.-Prof. David Weisstanner
Type of course	Master seminar
Code	HS231219
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Mo, 18.09.2023, 10:15 - 12:00, 3.B48 Fr, 01.12.2023, 08:15 - 16:00, 3.B58
Duration	2 hours per week per semester
Course content	In this seminar, students will explore various topics in health and social policy. Examples range from the demand and supply side of health care markets, and the behavior of key actors like physicians and hospitals, to insurance, government regulation, market design, and inequities and disparities. Based on articles published in scientific journals, students will prepare a term paper and present it in class. Students will also be asked to discuss another student's work. Further details on the topics, the expectations towards the term paper, the oral presentation, and the discussion will be given during the introductory meeting.
Tags	Sustainability
E-learning	All teaching material will be provided via the e-learning platform.
Learning objectives	i) to use economic reasoning and understand empirical techniques to analyze problems in health and social policy, ii) to be familiar with main research themes in the field, iii) to evaluate and draw conclusions from current scientific literature, iv) to practice scientific presentation and discussion on a competitive academic level on different topics.
Prerequisites	Health Economics, Quantitative Methods
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=656
Exam	Grade 4.0 or better Term paper (50%), presentation of paper (30%), discussion of another student's paper/presentation (20%)
Type of exam	Term paper (50%), presentation of paper (30%), discussion of another student's paper/presentation (20%). / 3 Credits
Note	Teaching methods: Seminar with introductory session and student presentations/discussions. Prerequisites: Health Economics, Quantitative Methods
Auditors	No
Contact	david.weisstanner@unilu.ch
Material	Scientific articles and selected book chapters

Infodemic Management

Lecturer	Nicola Diviani, PhD Dr. phil. Claudia Zanini
Type of course	Lecture
Code	HS231186
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Th, 19.10.2023, 12:30 - 14:00, HS 12 Th, 26.10.2023, 12:30 - 14:00, HS 12 Th, 02.11.2023, 14:15 - 16:00, HS 3 Th, 09.11.2023, 12:30 - 14:00, HS 12 Th, 16.11.2023, 12:30 - 14:00, HS 12 Th, 23.11.2023, 12:30 - 14:00, HS 12 Th, 30.11.2023, 12:30 - 14:00, HS 12 Th, 07.12.2023, 12:30 - 14:00, HS 12 Th, 14.12.2023, 12:30 - 14:00, HS 12 Th, 21.12.2023, 12:30 - 14:00, HS 12 Th, 18.01.2024, 08:15 - 16:00, HS 4 (Examination)
Duration	2 hours per week per semester
Course content	In this course, students will explore the complex and dynamic landscape of infodemics and the challenges they pose for public health, crisis communication, and social media. Through a combination of lectures, case studies, and hands-on exercises, students will learn to analyze and manage infodemics by understanding their root causes and drivers, identifying the role of different stakeholders, and developing evidence-based strategies for detecting, verifying, and disseminating accurate information. The course will cover topics such as the impact of infodemics on public health, the role of media and government in infodemic management, the ethical and legal implications of infodemic management, and the communication and collaboration skills needed to manage infodemics effectively. Students will also have the opportunity to learn how to evaluate the effectiveness and impact of infodemic management interventions, and to reflect on the evolving nature of technology, society, and public health in developing a sustainable and adaptive approach to infodemic management. Overall, this course aims to equip students with the knowledge, skills, and attitudes to respond to infodemics in a responsible, evidence-based, and collaborative manner, and to contribute to building more resilient and informed communities.
Learning objectives	Upon completing this course, students will be able to understand and apply strategies to effectively manage infodemics in different contexts, including public health, crisis communication, and social media. Specifically, students will: 1. Understand the causes and impacts of infodemics on public health, society, and governance. 2. Learn and apply evidence-based strategies for detecting, verifying, and disseminating accurate information in a timely and ethical manner, and to communicate and collaborate effectively with diverse stakeholders. 3. Develop a reflective and adaptive approach to infodemic management that takes into account the evolving nature of technology, society, and public health, and evaluate the effectiveness and impact of infodemic management interventions.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=667
Exam	Oral exam
Type of exam	Oral exam / 3 Credits
Note	Teaching methods: Lectures, case studies, and hands-on exercises.
Contact	nicola.diviani@doz.unilu.ch / claudia.zanini@doz.unilu.ch
Material	The teaching material is based on PowerPoint slides and selected readings. All learning materials are provided via the E-learning platform Moodle.
Literature	• "Infodemics: a new challenge for public health" by David L. Heymann and Chikwe Ihekweazu, The Lancet, 2020. • "Infodemic Management: A Key Component of COVID-19 Pandemic Response" by Sunil Kumar et al., Frontiers in Public Health, 2020. • "Misinformation and Its Correction: Continued Influence and Successful Debiasing" by Stephan Lewandowsky et al., Psychological Science in the Public Interest, 2012. • "Managing the COVID-19 Infodemic: Promoting Healthy Behaviors and Mitigating Harmful Rumors" by John W. Ayers et al., Journal of Medical Internet Research, 2020. • "Information Disorder: Toward an Interdisciplinary Framework for Research and Policy Making" by Claire Wardle and Hossein Derakhshan, Council of Europe Report, 2017. • "From Information Retrieval to Infodemiology: A New Agenda for Consumer Health Research" by Gunther Eysenbach, Journal of Medical Internet Research, 2005. • "Pandemics and infodemics: The role of social media" by Liane Ströbel and Simon Hegelich, Journal of Risk Research, 2021. • "COVID-19, Conspiracy Theories, and the FiveG Technology: A Scoping Review of the Literature" by Melissa T. Buelow, Health Education & Behavior, 2020. • "Infodemiology and Infoveillance: Framework for an Emerging Set of Public Health Informatics Methods to Analyze Search, Communication and Publication Behavior on the Internet" by Gunther Eysenbach, Journal of Medical Internet Research, 2009. • "The 5 Cs of Effective Information Sharing during Epidemics" by Masahiro Kami et al., Journal of Medical Internet Research, 2020. • "A public health research agenda for managing infodemics: methods and results of the first WHO infodemiology conference" by Calleja N. et al, JMIR Infodemiology, 2021. • "WHO competency framework for health authorities and institutions to manage infodemics: its development and features" by Rubinelli S. et al, Human Resources for Health, 2022.

Evidence Informed Policy and Stakeholder Dialogue

Lecturer	Nicola Diviani, PhD Sarah Mantwill, PhD
Type of course	Master seminar
Code	HS231189
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master Doktorat
Date	We, 15.11.2023, 08:15 - 16:00, 4.A05 Tu, 19.12.2023, 08:15 - 16:00, HS 2
Further dates	The course is mandatory in the Major Health Communication.
Duration	block course
Frequency	1 semester
Course content	A learning health system relies on cyclical dynamics to identify issues in the health system, systematize relevant evidence, present alternative courses of action, collaboratively agree on the best action, and implement and monitor the change. For this process to be successful there is need for a structured dialogue between different stakeholders (e.g., representatives of the government, public health administration, health care providers, insurers and patients) to identify and understand the critical issues and collaboratively identify the best and most feasible response for implementation. As part of this course, students will simulate a stakeholder dialogue to better understand the underlying mechanisms and challenges in bridging research, policy and practice. Students will take different roles and prepare the dialogue accordingly. An introduction to frameworks of evidence-informed policy-making, argumentation theory, and to stakeholder engagement will provide the theoretical foundation. In addition to active participation in the dialogue, it is expected that students engage in a post-dialogue discussion about the achieved goals.
E-learning	Will be communicated through moodle.
Learning objectives	The objectives of this course are i) to learn the basics of stakeholder engagement and argumentation theory, ii) to understand the structure and value of policy briefs in evidence-informed policy-making, and iii) to execute a stakeholder dialogue on a current issue in the healthcare system, including the in-depth study of a policy brief.
Prerequisites	Grade 4.0 or better.
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=659
Exam	Grading for this course is based on i. active participation in the introductory class on argumentation theory and on policy briefs, including related online activities (20%), ii. preparation of a position paper depending on the assigned role prior to the stakeholder dialogue (40%), iii. active participation in the stakeholder dialogue in the assigned role and in the post-dialogue discussion (40%). A grade of 4.0 or higher is required to successfully complete the course.
Type of exam	Homework assignment, active class participation / 3 Credits
Note	Teaching method(s)/Indications: Lectures and simulation of a stakeholder dialogue. Literature research is required to prepare the dialogue.
Auditors	Yes
Contact	nicola.diviani@doz.unilu.ch / sarah.mantwill@unilu.ch
Material	All teaching material will be provided via the e-learning platform moodle.
Literature	Will be communicated via the e-learning platform moodle

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Introduction to Public Health

Lecturer	Andrea Farnham, PhD, Sarah Ziegler
Type of course	Master seminar
Code	HS231003
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Mo, 18.09.2023, 08:15 - 12:00, HS 7 Mo, 25.09.2023, 08:15 - 12:00, HS 7 Mo, 09.10.2023, 08:15 - 12:00, HS 7 Mo, 16.10.2023, 08:15 - 12:00, HS 7 Mo, 23.10.2023, 08:15 - 12:00, HS 7 Mo, 30.10.2023, 08:15 - 12:00, HS 7 Mo, 06.11.2023, 08:15 - 12:00, HS 7 Mo, 13.11.2023, 08:15 - 12:00, HS 7 Mo, 20.11.2023, 08:15 - 12:00, HS 7 Mo, 27.11.2023, 08:15 - 12:00, HS 7 Mo, 04.12.2023, 08:15 - 12:00, HS 7 Mo, 11.12.2023, 08:15 - 12:00, HS 7 Mo, 18.12.2023, 08:15 - 12:00, HS 7 Fr, 19.01.2024, 08:15 - 10:15, HS 1 (Examination) Tu, 04.06.2024, 08:15 - 09:45, 4.B51 (Examination resit)
Further dates	Mandatory course for all Majors in the Master of Health Sciences.
Duration	4 hours per week per semester
Course content	*Block One* *Introduction: what is public health?* • *Historical development of public health and major public health areas of competency* • *Exploring global health and inequalities through the Global Burden of Disease (GBD) Study* • *Health and disease determinants: disease prevention, environmental health, health inequalities and social determinants of health, health systems, health promotion* *Introduction: Public health in Switzerland* • *Major areas and stakeholders* • *The Swiss healthcare system* • *Public health in policy* *Block Two* *Public health methodology* • *Fundamentals of epidemiology* • *Study types (randomized control trials, cohort studies, case-control studies, cross-sectional studies)* • *Public health surveillance and ecological studies* • *Social science and qualitative research* • *Causation and causal inference* *Methods: National health strategies* • *Public health action cycle: Problem - strategy - implementation - evaluation* • *Health impact model & indicators* • *Example: Evaluation of national health strategy* *Block Three* *Special topics in public health* • *Communicable diseases* • *Non-communicable diseases (e.g. national health strategy NCD (MonAM data))* • *Community-based interventions and international impact evaluation*
E-learning	Teaching material is provided via moodle.
Learning objectives	The objective of this course is to give an overview of the field of public health and enable students to apply their knowledge directly to designing and interpreting studies on population health. The first part of the course establishes a comprehensive understanding of the core competencies, concepts, and values of the field of public health and its major challenges. In addition, students gain an insight into the Swiss healthcare system, its structure and organization. The second part of the course introduces the fundamental methodologies of public health, including epidemiology, the different types of studies used to inform public health practice, and common quantitative and qualitative methods. The final part of the course provides applied case studies on real world research and interventions in public health practice.
Prerequisites	Active participation during the course and written exam.
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=652
Exam	Active participation and passing grade on final exam.
Type of exam	Active participation during the course and written exam / 6 Credits
Note	Teaching method(s): Lectures, stakeholder input talks, interactive group work, practical group exercises (mini-projects & case studies), short interactive digital quizzes and polls, class discussions.
Auditors	Yes
Contact	andrea.farnham@doz.unilu.ch / sarah.ziegler@doz.unilu.ch
Material	Presentations held during lectures as well as selected additional readings will be available on moodle prior to the course blocks.
Literature	The textbook is Public Health Kompakt (4. Auflage) by Egger, Razum, and Rieder. De Gruyter, 2021. The textbook will be supplemented by topic specific readings uploaded online.

Health Data Challenge

News	This course will not take place due to low number of participants.
Lecturer	Dr. med. Dr. sc. nat. Michael Havranek
Type of course	Lecture/Seminar
Code	HS231663
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Further dates	The scope of the chosen research question must be feasible to be answered within the above mentioned duration of the course. This means that the capstone project and the research question must be clearly defined and reasonably selected. There will be a mandatory information event via Zoom on September 25, 2023 at 17.00 (see further information on Moodle). During this event, the students will be informed about the requirements of the course and about how to select a suitable project and research question.
Duration	block course
Frequency	Block course in the middle of the semester.
Course content	This course is directed towards advanced students. It is a personal capstone project that enables them to apply their knowledge and skills from other courses to answer a specific research question that is of interest to them. The students pose a research question themselves and provide the data to answer the question (by either using publicly available data or data they collected themselves, e.g., using personal health tracking devices or data from their internship)*. The students will determine on their own (but with guidance) what methods they need to use to answer their research question and perform the complete analyses (from preprocessing to results generation) themselves (either in R, or Python, or Stata). * Students are allowed to build and expand on previous projects from their internships or other courses (e.g., using the MIMIC patient datasets), but must be able to distinguish their current project and research question from the previously worked on projects.
E-learning	Course materials are provided via the e-learning platform Moodle. During the course, the students will be working on their own laptops.
Learning objectives	The goal of this course is to enable students to apply their knowledge and skills to solve a real-world question (i.e., "their Health Data Challenge"). In the process, they learn to plan a project, pose the right research question, select suitable methods to answer their question, preprocess the required data, perform their analyses to find answers, and interpret their findings. Altogether, this capstone project bridges the gap between course work and real-world application. It is an optimal preparation for the master thesis of students in the major "Health Data Science" but also prepares students from other majors well for their statistical analyses during the master thesis.
Prerequisites	The courses «Basic Research Methods», «Quantitative Methods», «Advanced Quantitative Methods», and «Analysis of Routinely Collected Health Care Data» are prerequisites for this course. Exceptions may be possible in justified cases. All students need to bring their laptops with preinstalled R, or Python, or Stata to this course.
Language	English
Limitation	Core course in the major "Health Data Science".
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=684
Exam	Grading will be based on the R, or Python, or Stata code that the students write to answer their research question and on their interpretation of their findings. An overall grade of 4.0 or better is required for the successful completion of the course.
Type of exam	Evaluation of the R/ Python/ Stata code and of the interpreted results to the posed research question. / 3 Credits
Note	Teaching methods: The course will take place as a block course during several afternoons/ evenings in the middle of the semester. The students will perform their data preprocessing and analyses under supervision but on their own. Some sessions will take place at the university (in person), while other sessions will be on Zoom (as supervised analysis sessions).
Auditors	No
Contact	michael.havranek@unilu.ch
Material	Course materials (such as slides) are provided or linked, and exercises handed in via the e-learning platform Moodle.
Literature	References and readings will be provided on the e-learning platform Moodle, but the main focus of this course is the hands-on training that the students acquire while answering their research question as part of their capstone project (i.e., "their challenge").

Basic Research Methods

Lecturer	Dr. rer. soc. Brigitte Hofstetter Furrer Lukas Kauer, PhD
Type of course	Lecture
Code	HS231002
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 08:15 - 12:00, HS 8 We, 27.09.2023, 08:15 - 12:00, HS 8 We, 04.10.2023, 08:15 - 12:00, HS 8 We, 11.10.2023, 08:15 - 12:00, HS 8 We, 18.10.2023, 08:15 - 12:00, HS 8 We, 25.10.2023, 08:15 - 12:00, HS 8 We, 08.11.2023, 08:15 - 12:00, HS 8 We, 15.11.2023, 08:15 - 12:00, HS 8 We, 22.11.2023, 08:15 - 12:00, HS 8 We, 29.11.2023, 08:15 - 12:00, HS 8 We, 06.12.2023, 08:15 - 12:00, HS 8 We, 13.12.2023, 08:15 - 12:00, HS 8 We, 20.12.2023, 08:15 - 12:00, HS 8 Th, 18.01.2024, 12:00 - 13:30, HS 1 (Examination) Tu, 04.06.2024, 08:15 - 09:45, 3.B48 (Examination resit)
Further dates	Teaching methods: Part Quantitative Methods: Every lecture is followed by an exercise session in the following week. In the lectures, the focus is on the theoretical background. In the exercises, small groups of students present their solutions in R to the exercises on topics from the previous lecture. Part Qualitative Methods: The course is designed as a lecture and is supplemented by mandatory reading,

	discussions, exercises, and group work to ensure active engagement with the content.
Duration	4 hours per week per semester
Course content	The course part Quantitative Methods covers the following topics: • Basic concepts: Measuring, estimating, testing, and forecasting • Basics of descriptive statistics: Scale levels, statistical parameters • Basics of inferential statistics: Sample and population, probabilities, random variables, and distribution families, basic elements of hypothesis testing • Investigation of differences: Procedures for one- and two-group comparisons • Examination of relations: Correlations and their test • Analysis of dependencies: Linear models and Ordinary Least Squares The course part Qualitative Methods covers the following topics: • Setting the scene: theoretical frameworks, ontological positions, main features and uses of qualitative research • Designing qualitative research: initial steps, research approaches, ethical issues • Generating data: sampling strategies, overview of basic methods (interview, focus groups, observation), secondary/digital sources • Interviewing: types of interviews, doing in-depth interviews (process, questions, and probes), issues and challenges • Analysis of qualitative data: analytic strategies, processing, and coding data • Interpreting and reporting data: description, explanation, generalization in qualitative research, displaying qualitative evidence • Quality criteria in qualitative research
E-learning	Course materials are provided or linked, and exercises handed in via the e-learning platform Moodle.
Learning objectives	The overarching goal of the course Basic Research Methods is for incoming students to obtain a foundation in qualitative and quantitative research methods for the start of their studies in the M. Sc. in health sciences. The main goal in the Quantitative Methods part is to understand why quantitative methods are important in health sciences and how they work. Instructions focus on statistical foundations and the basic statistical methods most commonly used in the health sciences. Students will learn how to apply them with the statistical software R. After taking this course, students • Can describe and differentiate the main approaches to quantitative data analysis • Understand basic statistical concepts such as central tendency, spread, and association • Understand principles of statistical inference • Can produce simple univariate and bivariate statistics • Can interpret results from statistical analyses of bivariate relationships and group differences In the part Qualitative Methods, students will familiarize themselves with the methodological foundations and theoretical assumptions of qualitative research. They will learn about qualitative research designs in health sciences and understand the underlying research process. Furthermore, students will be able to assess the advantages and disadvantages of common data collection and analysis methods. In addition, they will get to know criteria for assessing the quality of qualitative research. During the course, students will develop a qualitative research design (group work) and get some practical knowledge of qualitative interview research.
Prerequisites	Prerequisites: Basic knowledge of the software R is required. Details on how to familiarize yourself with the software will be provided by email at the end of August. Please bring your own laptop with a recent version of RStudio installed. RStudio is freely available on www.r-project.org Basic knowledge of qualitative methods and of statistics is an advantage, but not a requirement Overall grade of 4.0 or better. The grade will be the mean of the quantitative and qualitative parts. If you do not successfully complete the course (mean < 4.0), you must repeat the entire written exam (quantitative and qualitative part). If you must retake the exam, the partial grades (20% or 30% for group work) you achieved during the course will be transferred for the calculation of the final grade of the repeat exam (no retake of group work possible).
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=649
Exam	Part Quantitative Methods: Submission and presentation of the solutions to an exercise sheet during the semester by small groups of students (20% of the grade for the course part Quantitative Methods) and written exam during the exam session at the end of the semester (80% of the grade for the course part Quantitative Methods). Part Qualitative Methods: Presentation of a qualitative design incl. justification (group work, 30% of the grade for this course part) and written exam during the exam session at the end of the semester (70% of the grade for this course part).
Type of exam	Written exmination / 6 Credits
Note	Part Quantitative Methods: For the exercises during the course, the students work on their own laptops, on which they have installed the statistical software RStudio and topic-specific R packages. RStudio is freely available on www.r-project.org. Details on how to familiarize yourself with the software will be provided by email in advance
Auditors	Yes
Contact	brigitte.hofstetter@doz.unilu.ch / lukas.kauer@unilu.ch
Material	Lecture slides, mandatory readings, exercise materials and other documents for the course are provided or linked on Moodle.
Literature	Further readings/textbooks on quantitative research: - Cappiello, L. Introduction to Statistics, bookdown.org - Field., A., Miles, J., Field, Z. (2012). Discovering Statistics Using R. Sage. - Phillips, N. D. (2018). YaRrr! The Pirate's Guide to R, bookdown.org Further readings/textbooks on qualitative research: - Bourgeault, I., Dingwall, R. & De Vries, Raymond (2010) Handbook of Qualitative Methods in Health Research. Sage (eBook). - Green, J. & Thorogood, N. (2018). Qualitative Methods for Health Research. Sage. - Ritchie, J., Lewis, J., McNaughton Nicholls, C. & Ormston, R. (2014). Qualitative research practice: A guide for social science students and researchers (Reprint). Sage.

International comparison of health care systems

Lecturer	Lukas Kauer, PhD
Type of course	Seminar
Code	HS231222
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 10:15 - 12:00, 3.B57 We, 27.09.2023, 10:15 - 12:00, 3.B57 We, 04.10.2023, 10:15 - 12:00, 3.B57 We, 11.10.2023, 10:15 - 12:00, 3.B57 We, 18.10.2023, 10:15 - 12:00, 3.B57 We, 25.10.2023, 10:15 - 12:00, 3.B57 We, 08.11.2023, 10:15 - 12:00, 3.B57 We, 15.11.2023, 10:15 - 12:00, 3.B57 We, 22.11.2023, 10:15 - 12:00, 3.B57 We, 29.11.2023, 10:15 - 12:00, 3.B57 We, 06.12.2023, 10:15 - 12:00, 3.B57 We, 13.12.2023, 10:15 - 12:00, 3.B57 We, 20.12.2023, 10:15 - 12:00, 3.B57 Tu, 16.01.2024, 12:00 - 13:30, HS 4 (Examination)
Further dates	This course is limited to 16 participants. The limitation will be administered via MOODLE according to chronological order of the registrations. From 4 September 2023 on it will be possible to register via MOODLE. As soon as 16 participants have registered, the registration window will close automatically. If the course is already full and you would like to be put on the waiting list, please send an email to the lecturer to ask to be put on the wait list.
Duration	2 hours per week per semester
Course content	In this seminar we compare different health care systems across the globe. Health policy typically has three goals: health, wealth, and equity. However, there is an inherent tradeoff between the three goals so they can never be maximized together. We analyze from an economic perspective how different countries choose to organize and regulate health insurance markets to tackle the many market failures (e.g., adverse selection, moral hazard, monopoly rents, oversupply of medical services). The first part of the seminar will focus on theory and basic concepts. We will set up a framework with which we analyze the different systems worldwide. In the second and main part, every student is expected to present one system based on this framework.
Learning objectives	• Understand the key characteristics of international health care markets and the economic problems associated with these characteristics. • Describe systematically how health care markets are organized and identify root causes of market failures. • Analyze the role of government in health financing and service delivery and identify the root causes of government failures.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=666
Exam	Students are required to give a presentation and write an exam. The grades from these two requirements will be weighted together with the student's participation in class (see the weights below).
Type of exam	Presentation, exam / 3 Credits
Note	Teaching methods: In the first part, the lecturer will give a presentation on the theory and basic concepts. In the second part, students will present and guide a discussion
Auditors	No
Contact	lukas.kauer@unilu.ch
Material	Slides will be provided during class.
Literature	Bhattacharya, Jay; Timothy Hyde and Peter Tu (2014), Health Economics, Palgrave Macmillan, New York. Sloan, Frank A. and Chee-Ruey Hsieh (2017), Health Economics, MIT Press, Cambridge, London. Getzen, Thomas E. (2013) Health Economics and Financing, 5th Edition, Wiley. McGuire, Thomas G. and Richard van Kleef (eds) (2018), Risk Adjustment, Risk Sharing and Premium Regulation in Health Insurance Markets: Theory and Practice, Elsevier Publishing, London, San Diego.

Health Impact Assessement

Lecturer	Lukas Kauer, PhD
Type of course	Workshop
Code	HS231221
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 16:15 - 18:00, 3.B52 We, 27.09.2023, 16:15 - 18:00, 3.B52 We, 04.10.2023, 16:15 - 18:00, 3.B52 We, 11.10.2023, 16:15 - 18:00, 3.B52 We, 18.10.2023, 16:15 - 18:00, 3.B52 We, 25.10.2023, 16:15 - 18:00, 3.B52 We, 08.11.2023, 16:15 - 18:00, 3.B52 We, 15.11.2023, 16:15 - 18:00, 3.B52 We, 22.11.2023, 16:15 - 18:00, 3.B52 We, 29.11.2023, 16:15 - 18:00, 3.B52 We, 06.12.2023, 16:15 - 18:00, 3.B52 We, 13.12.2023, 16:15 - 18:00, 3.B52 We, 20.12.2023, 16:15 - 18:00, 3.B52
Duration	2 hours per week per semester
Course content	Imagine a new plan for a major infrastructure project is being put forward by your government. What frameworks or tools can you use to explore the effects of this project on the health of the local population? Health Impact Assessment (HIA) is a relatively new field and is defined as a combination of procedures, methods and tools by which a policy, programme or plan may be judged as to its potential effects on the health of a population and the distribution of those effects within the population. The class starts with lectures about the short history, typologies, and frameworks of HIA. Students will learn the theoretical foundations of HIA followed by a thorough discussion of the strengths and limitations of this field. Students will then search for a policy, programme or plan that they wish to assess in their own HIA. This exercise of their own HIA will be the main requirement, but the students will also document their learning process during this exercise as part of a personal reflection exercise.
Learning objectives	This course has three main learning objectives. Students will learn to (i) identify tools used in Health Impact Assessment (HIA), (ii) examine the strengths and limitations of HIA, and (iii) design their own HIA based on the theoretical framework.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=670
Exam	Grading is based on a written paper on one's own HIA (80%) and a reflection part (20%).
Type of exam	Written paper (80%) and reflective writing (20%) / 3 Credits
Note	Teaching methods: Blended learning with lectures, exercises and discussions.
Auditors	No
Contact	lukas.kauer@unilu.ch
Material	Will be provided in class.

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Clinical Trials - Elements and Ethics

News	This course will not take place due to low number of participants.
Lecturer	Dr. rer. pol. Dirk Lehnick
Type of course	Master seminar
Code	HS231194
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Further dates	Major Course for MSc Health Sciences students.
Duration	2 hours per week per semester
Course content	Clinical Trials:
	• Interventional vs. non-interventional studies
	• Trials involving medicinal products / Phases of drug development
	• Study objectives
	• Typical study designs
	• Randomization, blinding, study documentation, sample size determination
	Good Clinical Practice (GCP) and Research Ethics:
	• Ethical principles for research
	• History of clinical research ethics (incl. case studies)
	• Good Clinical Practice guidelines / legal framework
	• Roles, tasks and responsibilities in clinical studies as defined by ICH-GCP
	• Patient information and consent
	• Clinical trial application / Ethics committees / Competent authorities
	• Scientific requirements and practical implementation issues
	• Quality management in clinical trials
	• Patient information and consent
	• Data collection and handling / Statistical planning and analysis
	• Adverse events and safety reporting
Tags	Gender/diversity
Learning objectives	• Gain basic knowledge of principles of clinical trials • Understand the historical context and main concepts of research ethics and Good Clinical Practice (GCP) guidelines • Know roles, tasks and responsibilities in clinical studies as defined by ICH-GCP
Prerequisites	Diligence and eagerness to learn.
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=653
Exam	The course credits will be earned by passing a written exam in at the end of the semester or, in case of failure of the written test, the passing of a compensation test during the subsequent semester.
Type of exam	written exam / 3 Credits
Note	Teaching method(s): The module mainly consists of in-class teaching complemented by practical learning sessions and problem discussions. In-class teaching sessions will be electronically available for recapitulation. Parts of the course will be require self-study conducted between in-class lectures based upon case studies and documents which will be electronically available or will be handed out during the sessions.
Auditors	No
Contact	dirk.lehnick@unilu.ch
Material	All teaching material incl. case studies will be provided via the learning management system or as handout.
Literature	Swiss Academy of Medical Sciences (SAMS) handbook "Research with human subjects" (2nd edition, 2015)
	Emanuel et al. (2000) What makes clinical research ethical; JAMA 283(20):2701-2711
	ICH GCP Guideline with Integrated Addendum E6(R2), Step 4 (Nov 2016)

Global Health Economics

Lecturer	Dr. Samuel Lordemus
Type of course	Lecture
Code	HS231630
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 08:15 - 10:00, 3.B57 We, 27.09.2023, 08:15 - 10:00, 3.B57 We, 04.10.2023, 08:15 - 10:00, 3.B57 We, 11.10.2023, 08:15 - 10:00, 3.B57 We, 18.10.2023, 08:15 - 10:00, 3.B57 We, 25.10.2023, 08:15 - 10:00, 3.B57 We, 08.11.2023, 08:15 - 10:00, 3.B57 We, 15.11.2023, 08:15 - 10:00, 3.B57 We, 22.11.2023, 08:15 - 10:00, 3.B57 We, 29.11.2023, 08:15 - 10:00, 3.B57 We, 06.12.2023, 08:15 - 10:00, 3.B57 We, 13.12.2023, 08:15 - 10:00, 3.B57 We, 20.12.2023, 08:15 - 10:00, 3.B57 Fr, 26.01.2024, 12:00 - 13:30, HS 10 (Examination)
Further dates	For each class, there will be a lecture that covers the main concepts and provides the theoretical context of each week's topic, and an applied part primarily from academic journals, with student presentations and class discussion. To this end, required reading will be assigned before each session. There will be set questions for each week to guide your reading; students should then be prepared to answer them in the class.
Duration	2 hours per week per semester
Course content	This course aims to explore in detail specialist topics related to Global Health Economics, with a particular focus on the relationship between health, poverty and development. It will enable students to examine the challenges related to the quality and delivery of healthcare in low-income countries from an economic perspective, and critically reflect on how differences in health determinants between and within countries, as well as differences in financing health systems affect the level of health and the demand for health care.
Learning objectives	By the end of the course the student should be able to: • Summarize and discuss elements of the global health system, including the role of the key actors and the financing schemes • Understand and critically review studies on healthcare financing, health interventions and global health policy in low-income countries • Explain how economic, social and environmental factors determine healthcare demand and supply
Prerequisites	Bachelor's degree. Some concepts of economic theory and econometrics will be reviewed in class, but students are expected to have a good knowledge of microeconomics and econometrics.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=674
Type of exam	written exam / 3 Credits
Note	Teaching methods: Students will be asked to read and summarize selected academic journals in order to actively participate in class discussion. They will further be asked to deliver a short presentation on a current research topic connected to Global health Economics.
Auditors	Yes
Contact	samuel.lordemus@unilu.ch
Material	Teaching material is based on selected articles, book chapters and slides.
Literature	For each topic that will be covered in the course, a selected list of academic journals and book chapters will be distributed via the e-learning platform moodle.

MHealth: Changing health with mobile technology

Lecturer	Dr. phil. Janina Lüscher
Type of course	Seminar
Code	HS231220
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Mo, 18.09.2023, 12:30 - 16:00, HS 14 Mo, 16.10.2023, 12:15 - 16:00, HS 14 Mo, 30.10.2023, 12:30 - 16:00, HS 14 Mo, 13.11.2023, 12:30 - 16:00, HS 14 Mo, 04.12.2023, 12:30 - 16:00, HS 14 Mo, 18.12.2023, 12:30 - 16:00, HS 14
Duration	2 hours per week per semester
Course content	There is a growing interest among researchers in understanding and changing health in the natural environment and everyday lives of individuals. Mobile technologies (e.g., text messaging or apps) offer multiple opportunities to embed interventions directly into individuals' daily lives.
Learning objectives	Students will be able to explain the empirical evidence on the effectiveness of technology-based health interventions. Students will be able to name and evaluate opportunities and challenges of mHealth approaches. Students will be able to develop their own intervention study using mobile technology.
Prerequisites	- Active participation - Accompanying reading - Taking over of topic sessions - Development of an mhealth intervention
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=663
Exam	Presentation during course days
Type of exam	Presentation during course days / 3 Credits
Auditors	No
Contact	janina.luescher@paraplegie.ch
Literature	- Heron, K. E. & Smyth, J. M. (2010). Ecological momentary interventions: Incorporating mobile technology into psychosocial and health behavior treatments. British Journal of Health Psychology, 15, 1-39. - Steinhubl, S. R., Muse, E.D., Topol, E. J. (2015). The emerging field of mobile health. Science Translational Medicine, 7(283):rv283.

Introduction to Artificial Intelligence

Lecturer	Javier Montoya Dr. sc. ETH
Type of course	Lecture
Code	HS231421
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	Th, 21.09.2023, 14:15 - 16:00, HS 4 Th, 28.09.2023, 14:15 - 16:00, HS 4 Th, 05.10.2023, 14:15 - 16:00, HS 4 Th, 12.10.2023, 14:15 - 16:00, 3.A05 Th, 19.10.2023, 14:15 - 16:00, HS 4 Th, 02.11.2023, 14:15 - 16:00, HS 14 Th, 09.11.2023, 14:15 - 16:00, HS 4 Th, 16.11.2023, 14:15 - 16:00, HS 3 Th, 23.11.2023, 14:15 - 16:00, HS 4 Th, 30.11.2023, 14:15 - 16:00, HS 4 Th, 07.12.2023, 14:15 - 16:00, HS 4 Th, 14.12.2023, 14:15 - 16:00, HS 4 Th, 21.12.2023, 14:15 - 16:00, HS 4 Tu, 16.01.2024, 15:00 - 16:15, HS 1 (Examination)
Further dates	This is an introductory course on applied Artificial Intelligence in Digital Health.
Duration	2 hours per week per semester
Course content	• Introduction and Foundations of Artificial Intelligence and Deep Learning: what are the fundamental concepts associated to Artificial Intelligence/Deep Learning? • Applications of Artificial Intelligence in digital health: what are examples of applications of Artificial Intelligence in the medical field? • Supervised, Unsupervised, and Reinforcement Learning: what are the commontypes of Artificial Intelligence methods? • Introduction to Clinical Data: what are the different types of data available in clinical settings and how can they be used for diagnosis? • The Deep Learning Pipeline in Digital Health: what are the key building blocks of Artificial Intelligence systems and how do such systems are trained and evaluated? • Computer Vision in Medical Imaging: how can visual information be used to assist medical diagnosis in medical imaging? • Natural Language Processing in Healthcare: how can clinical text documents be used to obtain valuable medical insights? • Trustworthy Artificial Intelligence and Interpretability: what are the challenges and considerations aiming at trustworthy and interpretable Artificial Intelligence in Healthcare? • Ethical considerations and Regulations for Artificial Intelligence in Digital Healthwhat are the existing and emerging regulations and guidelines for using ArtificialIntelligence in the context of Digital Health? • Future Perspectives and emerging trends in AI for digital healthcare: what are the current trends and future perspectives of applied AI in Digital Health?
Tags	Sustainability
Learning objectives	After completing the course, students will be able to: • Understand and describe the fundamental principles of Artificial Intelligence in the context of the medical field. • Identify the different components of AI systems and how such systems are trained and evaluated on medical data. • Gain familiarity with existing AI models relying on visual and/or text data intended for medical diagnosis. • Analyze the regulations and ethical implications when developing AI systems for healthcare. • Understand the different roles among professionals when implementing crossdomain AI projects for healthcare:healthcare professionals, researchers, and data scientists. • Evaluate critically the capabilities and limitations of AI models in digital health. • Improve soft skills: presentation, communication, problem-solving, and teamwork.
Prerequisites	• Attendance and Engagement: regular attendance to the class and self-study arebeneficial to successfully complete the course. • Collaborative Learning: collaboration and exchange with peers through group discussions and joint projects will help to improve the learning experience. • Active Learning and Critical Thinking: Proactively learning and analyzing the applicability of AI systems together with their benefits, challenges, and limitations are important for succeeding in the course.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=673
Exam	40% group project and 60% final online exam (multiple choice, short answer, etc.) with open notes.
Type of exam	40% group project and 60% final written exam / 3 Credits
Note	Teaching methods: The teaching methods are based on lectures, interactive discussions, multimedia resources, case studies, group project(s), and guest speaker.
Auditors	Yes
Material	The teaching material includes selected book chapters, research papers, online tutorials, and medical datasets. moodle e-learning platform for class material and evaluation.
Literature	The corresponding references and readings will be provided in digital form on the moodle e-learning platform.

Health Systems and Services

Lecturer	Ass.-Prof. Diana Patricia Pacheco Barzallo Prof. Armin Gemperli, PhD
Type of course	Master seminar
Code	HS231004
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Tu, 19.09.2023, 12:30 - 16:00, HS 10 Tu, 26.09.2023, 12:30 - 16:00, HS 10 Tu, 03.10.2023, 12:30 - 16:00, HS 10 Tu, 17.10.2023, 12:30 - 16:00, HS 10 Tu, 24.10.2023, 12:30 - 16:00, HS 10 Tu, 31.10.2023, 12:30 - 16:00, HS 10 Tu, 07.11.2023, 12:30 - 16:00, HS 10 Tu, 14.11.2023, 12:30 - 16:00, HS 10 Tu, 21.11.2023, 12:30 - 16:00, HS 10 Tu, 28.11.2023, 12:30 - 16:00, HS 10 Tu, 05.12.2023, 12:30 - 16:00, HS 10 Tu, 12.12.2023, 12:30 - 16:00, HS 10 Tu, 19.12.2023, 12:30 - 16:00, HS 10 Mo, 22.01.2024, 14:00 - 15:30, HS 1 (Examination)
Further dates	The course is a mandatory Basic Course (1st semester).
Duration	4 hours per week per semester
Course content	Lectures will include presentations, exercises with data and discussion sessions. The lectures will be accompanied by slides and recommended/required readings to properly follow the course and understand the topics. Every other week, the courses will include a practical session, where the students can discuss more in detail some topics, and analyze data.
E-learning	All the slides and working/reading material will be posted in the e-learning platform moodle.
Learning objectives	After completion of the module Health Systems and Services, students will be able to understand how services of health care delivery work. In order to achieve the course objectives, the student will distinguish the roles of health care providers, funders, regulators and beneficiaries and their relationships in the process of the improvement of health. After completing this course, the student will be able to demonstrate the following competencies: • Know elements and taxonomies of health care systems, its indicators and the roles of providers, funders, regulators and beneficiaries • Understand theoretically why health systems have a direct impact on health and development • Elaborate and distinguish different funding systems in health • Understand recent challenges in health statistics and information systems • Appraise different evaluation types of health interventions and related concepts such as health related quality of life • Critically appraise the challenges of demographic dynamics and the need of digital health • Identify forms of overtreatment and its threat to health systems • Identify challenges for the health systems related to health behavior
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=650
Exam	60% : 90 min. written final exam + 40% : assignments and readings
Type of exam	written examination / 6 Credits
Note	Teaching method(s): Presentation of the theoretical background where health systems are built. The courses will also present the most recent evidence on the topic, as well as the challenges the societies face where health systems play an important role.
Auditors	Yes
Contact	diana.pacheco@unilu.ch / armin.gemperli@unilu.ch
Material	There is no specific textbook for the course, but some chapters indicated as supporting material from different sources may be useful as complement to the lecture notes. Otherwise, we mostly rely on original sources such as scientific journal articles and working papers. Readings and additional materials will be made available in the e-learning platform prior to their discussion in class.
Literature	Required and recommended readings will be indicated during class and made available in the e-learning platform.

Public Health and Social Impact of Epidemics: COVID-19 as a case in point

Lecturer	Dr. phil. Jan Reinhardt
Type of course	Master seminar
Code	HS231191
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Fr, 15.12.2023, 08:15 - 17:00, ZOOM Fr, 22.12.2023, 08:15 - 17:00, ZOOM
Course content	The course will review health consequences of natural disasters and discuss health strategies aimed to address those.
E-learning	Teaching material will be provided via the e-learning platform Moodle.
Learning objectives	Naural disasters entail a variety of public health consequences including mass fatalities and casualities, contagious disease, mental health problems, and long-term disabilities. Sudden onset as well as long-term impact call for a number of public health strategies and their coordination ranging from prevention and preparedness to community-based rehabilitation. The course aims to provide an overview about natural disasters from a public health perspective and to point students to challenges presently faced by disaster health sciences and health policy.
Prerequisites	Overall grade of 4.0 or better
Language	English
Limitation	priority MSc Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=661
Exam	Written exam and presentations of student teams.
Type of exam	Written exam and presentations of student teams / 3 Credits
Note	Teaching method(s): Lectures, prepared presentations by students, home work, interactive discussions.
Auditors	Yes
Contact	jan.reinhardt@paraplegie.ch / jan.reinhardt@doz.unilu.ch
Material	Will be provided via the e-learning platform Moodle.
Literature	• Abramson DM, Morse SS, Garrett, AL, Redlener I: Public Health Disaster Research: Surveying the Field, Defining Its Future. Disaster Medicine and Public Health Preparedness. 2007; 1(1): 57-62. • Leaning J; Guaha-Sapir D: Natural Disasters, Armed Conflict, and Public Health. New Engl J Med. 2013. 369 (19): 1836-42. • Noji EK: Disaster Epidemiology: Challenges for Public Health Action. J Public Health Pol. 1992; 13: 332-340. • Noji EK, Toole MJ:The Historical Development of Public Health Responses to Disasters. Disasters.1997, 21(4): 366-376. • Phibbs S; Kenney C, Severinsen C, Mitchell J, Hughes R: Synergizing Public Health Concepts with the Sendai Framework for Disaster Risk Reduction: A Conceptual Glossary. Int J Environ Res Public Health. 2016; 13: 1241. • Reinhardt JD, Gosney JE: Natural disaster, health-related aspects. In: James D. Wright (editor-in-chief), International Encyclopedia of the Social & Behavioral Sciences. 2015, 2nd edition, Vol 16. Oxford: Elsevier: 315–319. • Schulz JM: Perspectives on Disaster Public Health and Disaster Behavioral Health Integration. Disaster Health. 2014; 2: 69-74.

Professional Development

Lecturer	Prof. S. Rubinelli
Type of course	Master seminar
Code	HS231218
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 12:30 - 14:00, 4.B55 We, 27.09.2023, 12:30 - 14:00, 4.B55 We, 04.10.2023, 12:30 - 14:00, 4.B55 We, 18.10.2023, 12:30 - 14:00, 4.B55 We, 25.10.2023, 12:30 - 14:00, 4.B55 We, 08.11.2023, 12:30 - 14:00, 4.B55
Duration	2 hours per week per semester
Course content	• Curriculum writing • Job interview skills • Time management • Emotional intelligence • Dealing with professional difficulties • Principles of leadership
Learning objectives	The course in Professional Development is a comprehensive program designed to enhance students' personal and professional growth by developing essential skills necessary for achieving their goals. This six-class course focuses on self-awareness, stress management, efficiency, creativity, emotional intelligence, time management, curriculum writing, and job interview skills. Students will gain knowledge and practical strategies to succeed in a competitive job market and navigate the complexities of the professional world. Course Objectives: 1. Foster awareness of challenging areas in the workplace that require specific skill development and training. 2. Instruct students on identifying and applying effective strategies for successful professional achievements.
Prerequisites	The requirements are: Knowledge and Understanding: a solid understanding of the course material, including the main principles of professional development. Content Mastery: effectively applying knowledge by accurately and concisely conveying the content of the course in the development of concrete strategies for professional development. Self-appraisal and analytical skills: actively identifying and building competences for the strengthening of individual's plans for professional development.
Language	English
Limitation	Priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=664
Exam	Based on self-assessment, students have to provide a profile of the skills that they need to develop and clear strategies and exercise on how they will do it.
Type of exam	written essay / 3 Credits
Note	Teaching method(s): Interactive classes.
Auditors	Yes
Contact	sara.rubinelli@unilu.ch
Material	The teaching material is based on PowerPoint slides, videos, scientific articles and selected book chapters. All learning materials are provided via the E-learning platform Moodle.

Institutional Health Communication

Lecturer	Prof. Sara Rubinelli, PhD
Type of course	Lecture
Code	HS231185
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Th, 28.09.2023, 14:15 - 16:00, 3.A05 Th, 05.10.2023, 14:15 - 16:00, 3.A05 Th, 12.10.2023, 14:15 - 16:00, HS 12 Th, 09.11.2023, 14:15 - 16:00, HS 12 Th, 16.11.2023, 14:15 - 16:00, 3.A05 Th, 23.11.2023, 14:15 - 16:00, HS 12 Th, 30.11.2023, 14:15 - 16:00, 3.A05 Th, 07.12.2023, 14:15 - 16:00, 3.A05 Th, 14.12.2023, 14:15 - 16:00, 3.A05 Th, 21.12.2023, 14:15 - 16:00, 3.A05 Mo, 15.01.2024, 15:00 - 17:00, HS 1 (Examination)
Duration	2 hours per week per semester
Course content	• Introduction to institutional health communication • Theories and models of institutional communication • Communication in interprofessional team • Media relations in healthcare and health organizations's role in mass media • Social media in institutional communication • Community engagement • Crisis communication • Health advocacy and influencer engagement • Institutional brand identity and reputation
E-learning	All learning materials are provided via the E-learning platform Moodle.
Learning objectives	This dynamic course offers students a unique opportunity to develop a comprehensive understanding of institutional communication within the healthcare sector, empowering them with the skills necessary to excel in their future careers. With a specific focus on the relationship between health organizations and the mass media, as well as effective communication with various stakeholders, this course delves into the essential concepts, principles, and strategies involved in managing media relations, fostering positive relationships with stakeholders, and addressing communication challenges within healthcare organizations. By mastering these communication skills, students will significantly enhance their employability and professional prospects in communication management. Throughout the course, students will explore a wide range of communication channels, techniques, and tools used in healthcare institutions. From traditional methods to cutting-edge technologies, students will gain practical insights on disseminating information, managing public perception, and maintaining effective stakeholder engagement. The course places special emphasis on the strategic utilization of communication channels, allowing students to develop a competitive edge in the job market. Engaging case studies and practical exercises will provide students with real-world scenarios, enabling them to apply their knowledge and refine their communication skills. By analyzing actual cases, students will gain valuable problem-solving experience, preparing them to navigate the complex landscape of media and stakeholder relations in healthcare. These practical exercises will help students develop confidence in managing challenging communication situations they may encounter in their future roles. The learning objectives of the course are: • Understand the fundamental concepts and principles of institutional communication within the healthcare sector. • Identify the key stakeholders involved in healthcare communication and recognize their roles and expectations. • Explore various communication channels and techniques used in healthcare organizations to effectively disseminate information. • Analyze the strategies and tools utilized in healthcare communication for fostering collaboration and maintaining positive relationships with stakeholders. • Examine the role of communication in managing crises within the healthcare sector and develop strategies to handle such situations effectively. • Recognize the ethical considerations and challenges in healthcare communication and develop strategies to address them. • Demonstrate effective written and oral communication skills in healthcare settings, including composing clear and concise messages, reports, and presentations.
Prerequisites	The requirements are: • Media Relations: understanding the role of media in healthcare communication and possess the skills to establish positive relationships with journalists and media outlets. • Stakeholder Engagement: identifying and engaging with key stakeholders in healthcare organizations, including patients, families, interprofessional teams, and community organizations. • Communication Channels: exploring various communication channels, both traditional and digital, commonly used in healthcare settings • Crisis Communication and Reputation Management: acquiring the skills to navigate communication crises within healthcare organizations, implementing effective crisis communication strategies to mitigate reputational damage. Learning to address misinformation, manage public perception, and provide accurate information during emergencies and critical incidents. • Interprofessional Communication: mastering effective communication within interprofessional healthcare teams, promoting collaboration, and addressing conflicts • Cultural Competence: learning to communicate effectively with diverse populations, considering cultural, linguistic, and socioeconomic factors.
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=668
Note	Teaching methods: Interactive classes, including exercise and evaluation of case-studies.
Auditors	No
Contact	sara.rubinelli@unilu.ch
Material	The teaching material is based on PowerPoint slides, videos, scientific articles and selected book chapters.
Literature	To be specified at the beginning of the course.

Scientific Communication

Lecturer	Prof. S. Rubinelli
Type of course	Lecture
Code	HS231217
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	We, 20.09.2023, 14:15 - 16:00, HS 8 We, 27.09.2023, 14:15 - 16:00, HS 8 We, 04.10.2023, 14:15 - 16:00, HS 8 We, 18.10.2023, 14:15 - 16:00, HS 8 We, 25.10.2023, 14:15 - 16:00, HS 8 We, 08.11.2023, 14:15 - 16:00, HS 8 Tu, 23.01.2024, 08:15 - 10:15, HS 1 (Examination)
Duration	2 hours per week per semester
Course content	The list of main topic includes: • Introduction to Scientific Communication • Science and society • Scientific writing • Public speaking • Science and social media
Learning objectives	This course is designed to enhance the scientific communication skills of students. Through a combination of theoretical knowledge and practical exercises, participants will learn how to effectively communicate scientific concepts and research findings to diverse audiences. The course will cover various modes of communication, including written, oral, and digital platforms. It will strengthen the development of critical thinking skills, guide scientific writing abilities, and support confidence in presenting scientific information. The course will also explore the interaction between science and society, examining the social implications and ethical considerations in scientific communication. By the end of this course, students will be able to: • understand the importance of effective scientific communication and its interaction with society; • apply critical thinking skills to analyze and interpret scientific information within the context of social implications; • write clear and concise scientific papers and reports; • prepare and deliver effective oral presentations on scientific topics; • utilize digital platforms, including social media, for science communication; • demonstrate awareness of ethical considerations in scientific communication, particularly in relation to societal impact.
Prerequisites	The requirements are: 1. Knowledge and Understanding: a solid understanding of the course material, including the principles of scientific communication, critical thinking skills, scientific writing conventions, oral presentation techniques, and ethical considerations in scientific communication. 2. Content Mastery: effectively applying knowledge by accurately and concisely conveying scientific concepts and research findings in written and oral formats. This includes demonstrating a clear understanding of the topic, using appropriate terminology, providing accurate and relevant information, and organizing the content in a logical manner. 3. Communication Skills: good communication skills, both in writing and speaking. This includes clear and concise writing, engaging delivery, and the ability to adapt the communication style to different audiences, whether scientific or general public.
Language	English
Limitation	Priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=665
Exam	For the exam, students will have 2 hours to write the abstract and introduction of a scientific paper on a topic in the field of Health Sciences. They will also need to create a 3-slide presentation based on the paper and develop a lay-version of the abstract for the general public. Specific details of the paper, such as the type of methods used and the main results, will be provided to the students. This exam is designed to assess their ability to effectively present the paper to both the scientific community and the general public, demonstrating their acquired skills in scientific communication.
Type of exam	written exam / 3 Credits
Note	Teaching method(s): Interactive classes (including presentations from both the lecturer and the students, and class discussions) and class projects based on role-play exercises
Auditors	Yes
Contact	sara.rubinelli@unilu.ch
Material	The teaching material is based on PowerPoint slides, videos, scientific articles and selected book chapters. All learning materials are provided via the E-learning platform Moodle

Principles and Practice of Clinical Quality Management

Lecturer	Dr. med. Anke Scheel-Sailer
Type of course	Master seminar
Code	HS231195
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Fr, 29.09.2023, 08:15 - 16:00, 4.B47 Fr, 06.10.2023, 08:15 - 16:00, 4.A05
Further dates	The course is mandatory in the Major Health Services Research.
Course content	Corner Stones in the historical development of Clinical Quality Development Main Quality models and certification programs (e.g. EFQM, ISO) Clinical Microsystems Clinical Management in case of patient with spinal cord injury Milestones in CQM implementation: situational analyses, stakeholder engagement, change process, outcome definition on micro, meso and macro level. Use of SWOT- analyses, Plan-Do-Check-Act and continuous improvement.
E-learning	All teaching material is provided via the e-learning platform Moodle.
Learning objectives	Clinical quality management is increasingly demanded in all different institutions of health care delivery. This course presents the actual existing health care quality models and established certification programs. We will also demonstrate and discuss the challenges during practical implementation exemplified in case of an institution specialized for patients with spinal cord injuries.
Prerequisites	Overall grade of 4.0 or better
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=660
Exam	Active participation and presentation of a Journal Article integrated in the course
Type of exam	active participation and presentation / 3 Credits
Note	Teaching method(s): Lectures and group project Lectures, prepared presentations by students, home work, interactive discussions.
Auditors	Yes
Contact	anke.scheel@doz.unilu.ch
Material	Will be uploaded on moodle
Literature	Will be uploaded on moodle

UNIVERSITÄT
LUZERN

An introduction to Gender Medicine: Multidisciplinary Perspectives

Lecturer	Dr. phil. Anne Marie Schumacher Dimech KD Dr. med. Tanja Volm
Type of course	Lecture
Code	HS231179
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	Mo, 18.09.2023, 10:15 - 12:00, HS 9 Mo, 25.09.2023, 10:15 - 12:00, HS 9 Mo, 09.10.2023, 10:15 - 12:00, HS 9 Mo, 16.10.2023, 10:15 - 12:00, HS 9 Mo, 23.10.2023, 10:15 - 12:00, HS 9 Mo, 30.10.2023, 10:15 - 12:00, 4.A05 Mo, 06.11.2023, 10:15 - 12:00, HS 9 Mo, 13.11.2023, 10:15 - 12:00, HS 9 Mo, 20.11.2023, 10:15 - 12:00, 4.A05 Mo, 27.11.2023, 10:15 - 12:00, 4.A05 Mo, 04.12.2023, 10:15 - 12:00, 4.A05 Mo, 11.12.2023, 10:15 - 12:00, HS 9 Mo, 18.12.2023, 10:15 - 12:00, 3.B48
Further dates	The course is taught in English. This is an elective module (Wahlpflichtmodul
Duration	2 hours per week per semester
Tags	Sustainability; Gender/diversity
E-learning	The lectures will be taught on site at the University of Lucerne. All course materials will be provided electronically.
Learning objectives	This module provides an overview of gender medicine including an in-depth study of a selection of topics using a multidisciplinary approach. This module is based on the following learning objectives: Students…. • know the concept of and the terminology related to gender medicine. • can understand and analyse the psychosocial aspects of gender medicine. • conceive and discuss how gender medicine has developed and continues developing over time and in an international context. • have knowledge of and describe the gender-relevant aspects of clinical medicine. • can classify and apply gender medicine in different political and socio-economic systems (professional politics, working environment, domestic space). • understand and apply gender-appropriate language in English and German • appraise their own role and reflect on their attitude towards stereotypes and bias. • can recognize and describe the influence of sex and gender on health and illness behaviour.
Prerequisites	Completion of years 1 and 2 of the BSc Health Sciences program
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=644
Exam	Presence of at least 80% at the lectures is obligatory. If a student is absent for more than 80% of the class time, he/she must provide compensatory work to be agreed with the lecturers. Creation of a scientific poster in the group and presentation
Type of exam	Design of a scientific poster / 3 Credits
Note	Teaching methods: • Frontal teaching • Group work • Individual or Partner work • Poster Sessions • Use of interactive devices (for example: Mentimeter) • Online Surveys
Auditors	No
Contact	anne.schumacher@unilu.ch / tanja.volm@doz.unilu.ch
Material	• Table Arrangement: Classroom format preferred • Beamer • Internet • Flipcharts
Literature	In advance of every teaching date a topic-specific literature list will be provided to the students.

Stress, coping and health

Lecturer	Dr. Urban Johannes Schwegler Dr. des. Caroline Debnar, Dr. des. Mayra Galvis
Type of course	Master seminar
Code	HS231190
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Mo, 16.10.2023, 09:15 - 12:00, 3.B48 Mo, 30.10.2023, 09:15 - 12:00, 3.B48 Mo, 13.11.2023, 09:15 - 12:00, 3.B48 Mo, 20.11.2023, 13:15 - 16:00, HS 14 Mo, 04.12.2023, 09:15 - 12:00, 3.B48 Mo, 11.12.2023, 09:00 - 16:00, HS 14 Fr, 26.01.2024, 08:15 - 09:45, HS 9 (Examination)
Further dates	mandatory in the Major HBM
Duration	block course
Course content	- Historical Concepts of Stress - Biological basis of stress - Stress induction and measurement of stress - Impact of stress on health conditions - Stress, Work and Health - Introduction to Coping - Measurement tools for coping - Interventions for stress-related problems
E-learning	All teaching material (apart from books) is provided via the e-learning platform Moodle.
Learning objectives	Students will get an introduction to the history of stress, physiological aspects of stress, coping and the influence on health
Prerequisites	Active participation, presentation and passed final exam
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=662
Exam	Active participation during the course, oral presentation and written exam
Type of exam	Active participation during the course, written course work and written exam / 6 Credits
Note	Teaching method(s): In class: discussions, in class exercises, front teaching, student presentations Self-study: reading textbook, scientific papers, preparation of presentation
Auditors	Yes
Contact	urban.schwegler@paraplegie.ch / caroline.debnar@paraplegie.ch / mayra.galvis@paraplegie.ch
Material	The teaching material is based on PowerPoint slides, videos, scientific articles and selected book chapters. All teaching material is provided via the e-learning platform Moodle apart from the mandatory textbook.
Literature	Mandatory reading: - Harrington, R. (2013) Stress, Health and Well-being – Thriving in the 21th Century. Belmont, CA: Wadsworth Publishing. Please order the book before the course starts

Introduction to Clinical Rehabilitation

Lecturer	Vanessa Andreina Seijas Bermudez, MD
Type of course	Lecture
Code	HS231177
Semester	Fall semester 2023
Department	Health Sciences
Study level	Bachelor
Date	We, 20.09.2023, 14:15 - 16:00, HS 11 We, 27.09.2023, 14:15 - 16:00, HS 11 We, 04.10.2023, 14:15 - 16:00, HS 11 We, 11.10.2023, 14:15 - 16:00, HS 11 We, 18.10.2023, 14:15 - 16:00, HS 11 We, 25.10.2023, 14:15 - 16:00, HS 11 We, 08.11.2023, 14:15 - 16:00, HS 11 We, 15.11.2023, 14:15 - 16:00, HS 11 Th, 23.11.2023, 08:15 - 10:00, ZOOM We, 29.11.2023, 14:15 - 16:00, HS 11 We, 06.12.2023, 14:15 - 16:00, HS 11 We, 13.12.2023, 14:15 - 16:00, HS 11 We, 20.12.2023, 14:15 - 16:00, HS 11 Tu, 23.01.2024, 08:15 - 09:45, HS 9 (Examination)
Further dates	The course will have a bachelor class every week with a duration of 1 hour and 45 minutes, for 13 weeks. Students will also participate in a closing activity in week 14.
Duration	2 hours per week per semester
Course content	This course will offer an introduction to clinical rehabilitation. Rehabilitation is an essential part of universal health coverage along with health promotion, prevention of disease, treatment, and palliative care. Rehabilitation helps a child, adult, or older person be as independent as possible in everyday activities and enables participation in education, work, recreation, and meaningful life roles such as taking care of family. Rehabilitation is also a field of human medicine. In this course, lecturers will provide an introduction to the main areas of clinical rehabilitation, including the following topics: • Functioning, Disability, and Health • Rehabilitation as a public health strategy and as a clinical process • Introduction to the rehabilitation team and the most common rehabilitation interventions • Introduction to anatomy and physiology • Introduction to rehabilitation in Spinal Cord Injury • Rehabilitation of movements functions • Rehabilitation of athletes and adapted sports • Rehabilitation for limitations in urinary, bowel, and sexual functions • Rehabilitation for limitations in cardiovascular and respiratory functions • Rehabilitation for limitations in neurological and cognitive functions • Rehabilitation in the elderly population • Rehabilitation for limitations in speech, languages, and swallowing functions • Rehabilitation in the pediatric population
Learning objectives	To provide an introduction to clinical rehabilitation.
Language	Bilingue - German / English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=643
Exam	Participation in in-class problem-oriented learning: 15% Final exam: 85%
Type of exam	final examination (in English) / 3 Credits
Auditors	Yes
Contact	vanessa.seijas@unilu.ch
Material	The course has a space on the Moodle platform in which students will find: Lectures' presentations, review papers, audiovisual material

Evidence Based Medicine and its Roots

Lecturer	Prof. Dr. Jivko Stoyanov Dr. sc. nat. Joelle Flück Prof. Armin Gemperli, PhD Marija Glisic , PD, MD, PhD
Type of course	Master seminar
Code	HS231193
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Fr, 22.09.2023, 08:15 - 16:30, 3.B55 Fr, 13.10.2023, 08:15 - 16:00, 4.B55 Fr, 20.10.2023, 08:15 - 16:00, 4.B55 Mo, 23.10.2023, 08:15 - 16:30, HS 14 Fr, 27.10.2023, 08:15 - 16:00, 4.B55 Fr, 03.11.2023, 08:15 - 16:00, 4.B55 Fr, 10.11.2023, 08:15 - 16:30, 3.A05
Further dates	The course is mandatory in the Major Health Services Research.
Duration	block course
Course content	- Historical and clinical epidemiological foundation of evidence-based medicine - History of medicine - Evidence-based practice in nutritional and sports sciences - 24 steps to systematic review and meta-analysis - Group work, student presentations and discussions
E-learning	All teaching material is provided via the e-learning platform Moodle.
Learning objectives	- Theoretical and practical understanding of the principles and methods of evidence-based medicine - Knowledge of the historical evolvement of medicine and biomedical research - Appraisal of the deficits and merits of evidence-based medicine and of initiatives to advance evidence-based medicine into the future - Translation of evidence-based guidelines in nutritional and sports sciences into practice - Understanding and application of systematic reviews and meta-analyses
Prerequisites	Attendance and active participation during the course, including reading assigned articles and participating in group work and presentations. Ideally students have an interest and passed well the courses: - Health Systems and Services - Translational Medicine
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=658
Exam	Course participants contribute to the course by presentations. Presentations will be 15-20 minutes in duration, followed by a 10-15 minute Q&A session. Grading is based on relevance to evidence-based medicine, coherence, and presentation skills. Time limit adherence is essential. In the "24 Steps to Systematic Review and Meta-Analysis" module, a combination of group work and written exam will be used for proficiency examination.
Type of exam	Group presentation & written assignment / 6 Credits
Note	Teaching method(s): In-class teaching and assignments and group work. The course will be spread over seven full Fridays, with the "24 Steps to Systematic Review and Meta-Analysis" module covered in the last three sessions. The structure includes morning lectures, afternoon group work, and student presentations on specified dates.
Auditors	Yes
Contact	jivko.stoyanov@paraplegie.ch / joelle.flueck@doz.unilu.ch / armin.gemperli@unilu.ch / marija.glisic@paraplegie.ch
Material	The teaching material is based on PowerPoint slides, videos, scientific articles or selected book chapters. Students will be provided with articles as a starting point for their presentations. All teaching material is provided via the e-learning platform Moodle.

Human Functioning Sciences

Lecturer	Prof. Stucki, Prof. Bickenbach PD Dr. Carla Sabariego Tomas Dr. phil. Claudia Zanini
Type of course	Master seminar
Code	HS231005
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Th, 21.09.2023, 08:15 - 12:00, HS 8 Th, 28.09.2023, 08:15 - 12:00, HS 8 Th, 05.10.2023, 08:15 - 12:00, HS 8 Th, 12.10.2023, 08:15 - 12:00, HS 8 Th, 19.10.2023, 08:15 - 12:00, HS 8 Th, 26.10.2023, 08:15 - 12:00, HS 8 Th, 09.11.2023, 08:15 - 12:00, HS 8 Mo, 13.11.2023, 12:30 - 16:00, HS 1 We, 15.11.2023, 12:30 - 16:00, 3.B58 Th, 16.11.2023, 12:30 - 16:00, HS 4 Th, 30.11.2023, 08:15 - 12:00, HS 8 Th, 07.12.2023, 08:15 - 12:00, HS 8 Th, 14.12.2023, 08:15 - 12:00, HS 8 Tu, 23.01.2024, 14:00 - 16:00, HS 1 (Examination)
Further dates	The course is a mandatory Basic Course (1st semester).
Duration	4 hours per week per semester
Course content	This course serves as a foundational exploration of health and human functioning sciences. Through engaging interactions with Professor Sabariego and Prof. Bickenbach, students will delve into health and its associated concepts, gaining a profound comprehension of these topics. Students will also collaborate under guidance to navigate various case scenarios, applying the fundamental principles of human functioning sciences and enriching their insights into this interdisciplinary field.
E-learning	All teaching materials are provided via the e-learning platform Moodle.
Learning objectives	• Gain an in-depth understanding of health and health-related concepts, in line with WHO concepts and classifications. • Develop the skills needed to describe and understand a person's health and needs. • Apply key principles from the human functioning sciences to a diverse range of case scenarios, fostering the ability to analyze complex health situations critically. • Recognize the value of constructing case scenarios as an initial and indispensable step in the development of scientific protocols. This skill is transferable to research endeavors and quality management contexts. • Learn to identify and select appropriate interventions and strategies to improve health across various levels of the healthcare system and interconnected societal sectors.
Prerequisites	• At least 80% attendance. • The written examination must be graded at least with a 4.0, the sufficiency according to the Swiss examination scheme.
Language	English
Limitation	priority Master Health Sciences students
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=651
Exam	Written examination at the end of the semester. Policy of course attendance: At least 80% attendance is required for registering for the written examination.
Type of exam	Written exam / 6 Credits
Note	Teaching method(s): In-class lectures; group exercises and group presentations; individual exercises; self-study.
Auditors	Yes
Contact	claudia.zanini@paraplegie.ch
Material	Students need a computer and Internet access . All teaching materials are provided via the e-learning platform Moodle.

Health Inequality and Public Policy

Lecturer	Ass.-Prof. David Weisstanner
Type of course	Lecture/Seminar
Code	HS231188
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Tu, 19.09.2023, 10:15 - 12:00, 4.B47
	Tu, 19.09.2023, 12:30 - 14:00, 4.B47
	Tu, 26.09.2023, 10:15 - 12:00, 4.B47
	Tu, 26.09.2023, 12:30 - 14:00, 4.B47
	Tu, 03.10.2023, 10:15 - 12:00, 4.B47
	Tu, 03.10.2023, 12:30 - 14:00, 4.B47
	Tu, 10.10.2023, 10:15 - 12:00, 4.B47
	Tu, 10.10.2023, 12:30 - 14:00, 4.B47
	Tu, 17.10.2023, 10:15 - 12:00, 4.B47
	Tu, 17.10.2023, 12:30 - 14:00, 4.B47
	Tu, 24.10.2023, 12:30 - 15:15, 4.A05
	Tu, 31.10.2023, 10:15 - 12:00, 4.B47
	Tu, 31.10.2023, 12:30 - 14:00, 4.B47
	Tu, 07.11.2023, 10:15 - 12:00, 4.B47
	Tu, 07.11.2023, 12:30 - 14:00, 4.B47
	Tu, 14.11.2023, 10:15 - 12:00, 4.B47
	Tu, 14.11.2023, 12:30 - 14:00, 4.B47
	Tu, 21.11.2023, 10:15 - 12:00, 4.B47
	Tu, 21.11.2023, 12:30 - 14:00, 4.B47
	Tu, 28.11.2023, 10:15 - 12:00, 4.B47
	Tu, 28.11.2023, 12:30 - 14:00, 4.B47
	Tu, 05.12.2023, 10:15 - 12:00, 4.B47
	Tu, 05.12.2023, 12:30 - 14:00, 4.B47
	Tu, 12.12.2023, 10:15 - 12:00, 4.B47
	Tu, 12.12.2023, 12:30 - 15:00, HS 2
	Tu, 19.12.2023, 10:15 - 12:00, 4.B47
	Tu, 19.12.2023, 12:30 - 14:00, 4.B47
	We, 17.01.2024, 14:00 - 15:30, HS 9 (Examination)
Duration	4 hours per week per semester
Course content	Health inequalities – systematic differences in the health status of different population groups – are a global issue and often persistent over time. Although health inequality is partly caused by autonomous forces that are difficult to counteract, public policies related to education, employment, social protection, housing, or healthcare access can have a significant impact on the social determinants of health, which in turn can affect health outcomes. This course therefore asks how public policy can shape and reduce health inequality among socio-economic groups and among countries.
	The course is structured in two parts: The first part of the course sets out to define the concept of health inequality, how we can measure it, and how it corresponds to other types of social and economic inequality. The second part of the course focuses on the main explanatory approaches of health inequality and how public policy contributes to these explanations.
	Overall, the course allows students to shed light on the policy implications of health inequality and to understand the possible pathways through which various public policies are linked to health inequality.
E-learning	Teaching material is provided via the e-learning platform moodle.
Learning objectives	Students will be able to: - describe the concepts and measurement of health inequality and public policy - analyze the impact of various public policies on health inequality, as well as the possible pathways through which public policies can affect health outcomes - evaluate the effectiveness of different policy approaches to reducing health inequality and propose policy solutions to promote more equitable health outcomes among different socio-economic groups and countries
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=671
Exam	Overall grade of 4.0 or better. The final grade consists of three parts: - Final written examination (50%) - Group presentation of policy proposal (40%) - Class participation (10%)
Type of exam	written exam, presentation / 6 Credits
Note	Teaching methods: Each week consists of interactive lectures in the morning (10:15-12:00), followed by an applied part with group assignments and discussions after the lunch break (12:30-14:00). Several guest lecturers will be invited to share insights from their research or practical work. Group presentations of policy proposals (such as cost-benefit analysis, stakeholder analysis, and impact assessments) take place towards the end of the semester.
Auditors	No
Contact	david.weisstanner@unilu.ch
Material	Teaching material is based on slides, scientific articles and book chapters, exercises, and group presentations of policy proposals.
Literature	The course will closely follow these textbooks:
	- Marmot, Michael. 2015. The Health Gap. The Challenge of an Unequal World. London: Bloomsbury.
	- Bartley, Mel. 2017. Health Inequality. An Introduction to Concepts, Theories and Methods. 2nd ed. Cambridge: Polity Press.
	- Mackenbach, Johan P. 2019. Health Inequalities. Persistence and Change in European Welfare States. Oxford: Oxford University Press.
	Selected chapters and other readings will be available on the e-learning platform moodle.

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Basics of Neuroscience: from brain to cognition

Lecturer	Guiseppe Zito
Type of course	Lecture/Exercise
Code	HS231589
Semester	Fall semester 2023
Department	Health Sciences
Study level	Master
Date	Tu, 19.09.2023, 08:15 - 10:00, 3.A05 Tu, 26.09.2023, 08:15 - 10:00, 3.A05 Tu, 03.10.2023, 14:15 - 16:00, HS 2 Tu, 03.10.2023, 08:15 - 10:00, 3.A05 Tu, 17.10.2023, 08:15 - 10:00, 3.A05 Tu, 24.10.2023, 08:15 - 10:00, 3.A05 Tu, 31.10.2023, 08:15 - 10:00, 3.A05 Tu, 07.11.2023, 08:15 - 10:00, 3.A05 Tu, 14.11.2023, 08:15 - 10:00, 3.A05 Tu, 14.11.2023, 10:15 - 12:00, E.411 Tu, 28.11.2023, 08:15 - 10:00, 3.A05 Tu, 05.12.2023, 08:15 - 10:00, 3.A05 Tu, 12.12.2023, 08:15 - 10:00, 3.A05 Tu, 19.12.2023, 08:15 - 10:00, 3.A05 Th, 25.01.2024, 08:15 - 16:00, 4.A05 (Examination)
Duration	2 hours per week per semester
Course content	• Anatomy of the brain, from cortical to subcortical structures • Classification of brain regions based on anatomical structures and functional organization • Cognitive functions and their neural correlates • Principles of magnetic resonance imaging • Structural, functional and diffusion brain images • Movement disorders
Learning objectives	• Acquire knowledge on the main brain structures and their functions • Associate brain regions to cognitive functions • Learn the basics of advanced neuroimaging • Get an overview on the most frequent movement disorders
Language	English
Registration	https://elearning.hsm-unilu.ch/course/view.php?id=669
Exam	• Presentation of the a simple project (See 3. Teaching methods) • Pass the oral exam
Type of exam	Submission project, oral exam / 3 Credits
Note	Teaching methods: • Front teaching • Work in small groups (2-3 students each) • Carry on a simple project
Auditors	No
Contact	giuseppe.zito@paraplegie.ch
Material	• Main: teaching slides
Literature	• Scientific papers will be cited during the lectures