



## List of Courses

### M.Sc. Health Economics and Health Care Management

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## Methods

### Quantitative methods

<b>Abbreviation</b>	M1a	
<b>Title</b>	Quantitative Methods	
<b>Learning objectives</b>	<p>Upon completion of the module, students will be able to</p> <ul style="list-style-type: none"> <li>- formulate hypotheses and use quantitative research methods as well as interpret their results.</li> <li>- reflect which empirical methods are suitable to answer a research question.</li> <li>- plan and execute their own empirical research projects.</li> <li>- use qualitative research methods and interpret their results.</li> </ul>	
<b>Content</b>	<ul style="list-style-type: none"> <li>- Fundamentals of empirical research: e.g. research design, data collection, selection, surveys</li> <li>- Use of quantitative research methods: e.g. regression analysis (OLS), accounting for assumption violations, e.g. endogeneity, generalized linear models, hierarchical linear modelling, survival models</li> <li>- Use of qualitative research methods</li> </ul>	
<b>Teaching methods</b>	Students will attend main lectures (2 SWS, 4 Credit Points) and accompanying lectures (1 SWS, 2 Credit Points).	
<b>Language</b>	The course is taught in German, unless announced otherwise.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written exam
	Requirements for exam registration:	None
	Language:	German, unless announced otherwise
	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory elective	
<b>Semester</b>	We advise to take this module in the first semester.	

<b>Recurrence of the module</b>	This module is usually offered each winter term.
<b>Duration</b>	One semester
<b>Applicability of the module</b>	Within the 'Methods' section of the M.Sc. 'Health Economics and Health Care Management', the module <i>Quantitative Methods</i> or the module <i>Advanced Econometrics</i> has to be attended.
<b>Person in charge of the module</b>	Prof. Dr. Tom Stargardt / Prof. Dr. Jonas Schreyögg

## Advanced econometrics

<b>Abbreviation</b>	M1b	
<b>Title</b>	Advanced Econometrics	
<b>Learning objectives</b>	After the completion of the module, students will have an advanced knowledge of the methods of econometrics.	
<b>Content</b>	<p>The focus of this module is on advanced econometric estimation methods within the scope of microeconometrics and / or time series analysis.</p> <p>Course Outline:</p> <ol style="list-style-type: none"> <li>1. Fundamentals of Probability</li> <li>2. Fundamentals of Mathematical Statistics</li> <li>3. Matrix Algebra</li> <li>4. Endogeneity and Biases</li> <li>5. Instrumental Variables Regressions</li> <li>6. Differences-in-Differences Regressions</li> <li>7. Pooling Cross Sections Across Time. Simple Panel Data Methods</li> </ol>	
<b>Teaching methods</b>	The module is based on two accompanying teaching methods: Lectures (4 contact hours per week, 4 credit points) and exercises (1 contact hour per week, 2 credit points). In the exercises, students will discuss and review the literature and apply up-to-date statistical methods to data sets.	
<b>Language</b>	The course is taught in English.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Basic knowledge in statistics, mathematics and econometrics	
<b>Examination</b>	Type	Written exam
	Requirements for exam registration:	None
	Language:	English

	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	6 credit points Students in the M.Sc. Economics program take a different exam and receive 10 credit points for this module.	
<b>Workload (overall and if separated for each part)</b>	Lecture (4 contact hours per week), exercises (1 contact hour per week) and self-study are closely intertwined and result in 6 credit points.	
<b>Type of module</b>	Compulsory elective	
<b>Semester</b>	We advise to take this module in the first semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	Within the 'Methods' section of the M.Sc. 'Health Economics and Health Care Management', the module <i>Quantitative Methods</i> or the module <i>Advanced Econometrics</i> has to be attended.	
<b>Person in charge of the module</b>	Prof. Thomas Siedler (PhD)	

## Microeconomics

<b>Abbreviation</b>	M2
<b>Title</b>	Microeconomics
<b>Learning Objectives</b>	This course covers the fundamental concepts of advanced microeconomics including game theory and behavioural economics. This provides the basis for applied economic analysis and is key in understanding modern economic research as published in leading peer-reviewed journals.
<b>Content</b>	The focus of this course is on microeconomic methods used in the economic analysis of health care. This ranges from standard consumer and producer theory, competitive and imperfectly competitive markets to game theory and behavioural approaches. Selected applications illustrate the usefulness of the methods.
<b>Teaching methods</b>	The course is a combination of interactive lecture (2 hours per week) and problem solving (1 hour per week).
<b>Language</b>	The course is taught in English.

<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	The course uses formal mathematical methods to describe and solve economic decision problems and to derive predictions about the behaviour of economic agents. Familiarity with constrained optimization of functions of several variables is expected.	
<b>Examination</b>	Type:	Written exam
	Requirements for participation in the exam:	None
	Language:	English
	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
	Weighting of course work and exam:	Exam (100%)
<b>Credit Points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Lectures:	Lectures, tutorials and independent studies comprise an inseparable unit and jointly represent a work load equivalent to 6 credit points.
	Independent studies:	
	Exam preparation:	
<b>Type of Module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the first semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Methods' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Grischa Perino	

## Decision theory

<b>Abbreviation</b>	M3
<b>Title</b>	Decision Theory
<b>Learning objectives</b>	The course provides the foundations of economic decision theory and its application in the domain of health economics / health care management. Students are introduced to key concepts (i.e.

	alternatives, states, probabilities) to formulate decision problems. The key elements of decision theory are introduced to describe and solve decision problems formally. Students learn how to interpret the obtained solutions. The aim is to draw conclusions for decision problems in the health care sector.	
<b>Content</b>	Both prescriptive (decision problems with and without risk, expected utility theory) and descriptive theories (prospect theory, heuristics in decision-making) are introduced and applied to a variety of problems. Starting point is the benchmark of rational decision-making. Then, systematic deviations from rational behavior and their implications are analyzed and discussed. .	
<b>Teaching methods</b>	Two types of concepts: lecture (2 contact hours, 4 credit points) und tutorial (1 contact hour, 2 credit points).	
<b>Language</b>	The course is taught in English.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Proficiency of the English language. The course applies formal mathematical methods to describe and solve decision problems. Basic understanding of the theory of probabilities and simple optimization problems (including constrained optimization of functions of several variables) is required to be able to attend the course.	
<b>Examination</b>	Type:	Written exam
	Requirements:	None
	Language:	English
	Duration / volume:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit Points</b>	6 credit points	
<b>Work load (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the first semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Methods' section of the M.Sc. Health Economics and Health Care Management.	

<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann / Prof. Dr. Tom Stargardt
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## Introduction to CSR: Fundamentals and current topics of business ethics

<b>Abbreviation</b>	M4	
<b>Title</b>	Introduction to CSR: Fundamentals and current topics of business ethics	
<b>Learning objectives</b>	<p>This course aims at offering students insights into the research area of Business Ethics and enabling them to critically reflect ethical conflicts in international business. Students will be enabled to apply study contents to problems in practice and autonomously reflect upon ethical decision making of international enterprises.</p> <p>In detail, students will be enabled to</p> <ul style="list-style-type: none"> <li>- understand and explain the need of ethical reflection in business.</li> <li>- further develop their analytical skills regarding the handling of ethical dilemmas.</li> <li>- examine systematically the ethical importance of different normative perspectives.</li> <li>- apply particular ethical principles to ethical conflicts.</li> </ul>	
<b>Content</b>	<p>The course offers a detailed overview of key theoretical concepts of Business Ethics and illustrates their application in practice. At the beginning of the course we will discuss the need to deal with Business Ethics. Then important theoretical principles of Business Ethics will be discussed at length. In the next step various approaches to Business Ethics and CSR will be introduced. It is important for students to understand the specifics of the individual approaches and accentuate their differences. The course will then focus on discussing selected approaches to implementing Business Ethics, respectively CSR, in international enterprises and organizations.</p>	
<b>Teaching methods</b>	Two types of concepts: lecture (2 contact hours, 4 ECTS) and tutorial (1 contact hour, 2 ECTS).	
<b>Language</b>	The course is taught in German.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written exam
	Requirements for registration for the exam:	None

	Language:	German
	Duration / scope:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the first semester.	
<b>Recurrence of module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Methods' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Dirk Ulrich Gilbert	



# Health and Health Care Markets

## Health Economics

<b>Abbreviation</b>	G1	
<b>Title</b>	Health Economics	
<b>Learning objectives</b>	This module covers essential topics in health economics on an advanced level. Students will acquire the skills to analyse problems in the field of health economics and to develop solutions.	
<b>Content</b>	<p>Within this module, microeconomic methods will be applied to analyse decisions and institutions within the health sector. Among the topics are</p> <ul style="list-style-type: none"> <li>- market failure in the health care sector.</li> <li>- the design of health insurance contracts</li> <li>- risk selection by health insurers.</li> <li>- physician and hospital behaviour</li> <li>- the design of reimbursement systems</li> <li>- the pharmaceutical market.</li> </ul> <p>We also discuss future health care challenges such as ageing and the technical progress in medicine.</p>	
<b>Teaching method</b>	Two types of concepts: lecture (2 contact hours, 4 credit points) und tutorial (1 contact hour, 2 credit points)	
<b>Language</b>	The course is taught in English.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	<p>Written exam + (when indicated/announced) additional course achievement (short essays, solving of practice problems, short presentations to practice academic debate).</p> <p>Type and scope of the required course achievements will be communicated at the start of the course. At that time, the participants will also be told, if and in which way course achievements can be used to acquire a bonus.</p>
	Requirements for	None

	registration:	
	Language of instruction:	English
	Time frame / Length:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
	Weighting of class achievements incl. mid-term exams (if applicable):	The grade achieved in a successfully completed module exam can be improved by up to 0.7 through additional course achievements.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Lecture (2 credit hours), tutorial (1 credit hour) and self-study form an inseparable unit and are credited with 6 credit points in total.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the first semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Health and health care markets' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann	

## Health Insurance Management

<b>Abbreviation</b>	G2
<b>Title</b>	Health Insurance Management
<b>Learning objectives</b>	Students will be acquainted with central aspects of the management of German sickness funds as well as their relationships with other stakeholders in the German health care system. Students will learn selected management concepts for the sickness fund's different areas of activity. Moreover, they will get to know instruments used for planning and executing care programs.
<b>Content</b>	The course gives an overview of the main institutional and structural characteristics of the German market for social and private health insurance. While the focus of the course is on the German system, the findings will also be examined in an

	international context. Additionally the course examines selected management concepts for different areas of activity within sickness funds. This includes areas such as marketing, controlling and finances, as well as contract management and health care management. In the area of health care management, new care programs, such as disease management programs, will be analyzed in detail.	
<b>Teaching methods</b>	Students will attend main lectures (2 SWS, 4 credit Points) and accompanying lectures (1 SWS, 2 credit Points).	
<b>Language</b>	The course is taught in German, unless announced otherwise.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to previously completed</b>	None	
<b>Examination</b>	Type:	Written exam
	Requirements for exam registration:	None
	Language:	German, unless announced otherwise
	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the second semester.	
<b>Recurrence of the module</b>	This module is usually offered each summer term.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Health and health care markets' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Jonas Schreyögg	

## Introduction to health science

<b>Abbreviation</b>	G3	
<b>Title</b>	Introduction to health science	
<b>Learning objectives</b>	<p>The students learn basic epidemiological concepts and methods to describe and analyze the distribution and determinants of diseases. They further get acquainted with disease classification systems and basic health science knowledge in the economically most important disease groups.</p> <p>The knowledge obtained in this course can be used to interpret and conduct economic evaluation as well as for work in hospital or pharmaceutical industry.</p>	
<b>Content</b>	<p>In the first part of the module the students learn concepts and methods of epidemiology. This part comprises lectures, self-studies and exercises.</p> <p>In the second part of the module students will be introduced to the most important disease groups. First they will be familiarized with the tenth version of the international classification of diseases (ICD-10). Afterwards, they will get an introduction to the epidemiology, etiology, therapy and costs of cancer, cardiovascular, endocrinological, musculoskeletal and mental diseases. This part of the module will be held by guest lecturers from the University Medical Center Hamburg-Eppendorf.</p>	
<b>Teaching methods</b>	Integrated course (3 CP)	
<b>Language</b>	The course is taught in German, unless announced otherwise.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written reexam
	Requirements for exam registration:	None
	Language:	German, unless announced otherwise
	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
	Weighting of class achievements incl. mid-term exams (if applicable)	Exam (100%)
<b>Credit points</b>	3 credit points	

<b>Workload (overall and if separated for each part)</b>	Main lecture and self-study constitute one inseparable unit and are valued at 3 credit points.
<b>Type of module</b>	Compulsory
<b>Semester</b>	We advise to take this module in the second semester.
<b>Recurrence of the module</b>	This module is usually offered each summer term.
<b>Duration</b>	One semester
<b>Applicability of the module</b>	The course is a core module of the 'Health and health care markets' section of the M.Sc. Health Economics and Health Care Management.
<b>Person in charge of the module</b>	Prof. Dr. Hans-Helmut König

## Health economic evaluation

<b>Abbreviation</b>	G4
<b>Title</b>	Health economic evaluation
<b>Learning objectives</b>	The course introduces into the methods to conduct health economic evaluation. Methods are rooted in business accounting as well as in empirical social sciences. Students will learn how to support (management) decision-making throughout various service sectors such as health insurances (e.g., reimbursement of new technologies), pharmaceutical companies (e.g., marketing of new drugs) and hospitals (e.g., acquisition of medical devices).
<b>Content</b>	This course is designed to give students theoretical and practical knowledge in research methods for the economic evaluation of health technologies. This includes methods related to <ul style="list-style-type: none"> <li>- costing health technologies,</li> <li>- Cost-effectiveness analysis,</li> <li>- measuring quality of life / Cost-utility analysis ,</li> <li>- Cost-benefit analysis,</li> <li>- Modelling (decision tree modeling, Markov models),</li> <li>- conducting sensitivity analyses.</li> </ul>
<b>Teaching methods</b>	Two types of concepts: lecture (2 contact hours, 4 credit points) and tutorial (1 contact hour, 2 credit points).
<b>Language</b>	The course is taught in English.
<b>Formal requirements for participation</b>	None
<b>Recommended modules to be</b>	None

<b>previously completed</b>		
<b>Examination</b>	Type:	Written exam
	Requirements for exam registration :	None
	Language:	English
	Duration:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), tutorial (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the third semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Health and health care markets' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Tom Stargardt	

## Current topics in research

<b>Abbreviation</b>	G5
<b>Title</b>	Current topics in research
<b>Learning objectives</b>	Students will learn the application of various methods to decision-making problems in all sectors of health care. The course will consist of presentations on current research by invited health economic experts from all over the world. This includes a discussion of methods as well as of results and policy implications.
<b>Content</b>	The topics are related to problems in all sectors of health care. A list of topics will be announced at the beginning of each semester.
<b>Teaching methods</b>	Lectures (1 contact hour) and self-study.
<b>Language</b>	The course is taught in English and/or German, depending on the

	presenters.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written exam
	Requirements for exam registration :	None
	Language:	German and/or English
	Duration:	At least 30 Minutes. The duration of the exam will be announced at the beginning of the course.
<b>Credit points</b>	3 credit points	
<b>Workload (overall and if separated for each part)</b>	Lectures (1 hour) and self-study constitute one inseparable unit and are valued at 3 credit points.	
<b>Type of module</b>	Compulsory	
<b>Semester</b>	We advise to take this module in the second semester.	
<b>Recurrence of the module</b>	The module is usually offered each semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Health and health care markets' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann / Prof. Dr. Tom Stargardt	

## Specialisation „Health Economics“

### Advanced Health Economics

<b>Abbreviation</b>	HE1	
<b>Title</b>	Advanced Health Economics	
<b>Learning objectives</b>	In this module, the students will study selected topics related to current research in health economics.	
<b>Content</b>	This module focusses on selected topics from current research. It is based on research and handbook articles. A list of selected topics is announced at the beginning of each semester. Lectures are complemented by student presentations.	
<b>Teaching methods</b>	Lecture (3 credit hours, 6 credit points) complemented by student presentations.	
<b>Language</b>	The course is taught in English.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Knowledge of the contents of modules M1a/M1b, M2, M3, and G1	
<b>Examination</b>	Type:	Presentation and written elaboration
	Requirements for registration:	Regular attendance (compulsory attendance)
	Language of instruction:	English
	Time frame / Length:	Presentation: 20 – 30 minutes; Elaboration: 8 – 12 pages
	Weighting of class achievements incl. mid-term exams (if applicable)	50% presentation 50% written elaboration
<b>Credit points</b>	6 credit points	
<b>Workload (overall and is separated for each part)</b>	Lecture (2 credit hours) and self-study form an inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory module for students with a Health Economics focus	
<b>Semester</b>	We advise to take this module in the second semester.	
<b>Recurrence of the module</b>	The module is usually offered each summer semester.	
<b>Duration</b>	One semester	



<b>Applicability of the module</b>	The course is a core module of the 'Specialisation Health Economics' section of the M.Sc. Health Economics and Health Care Management.
<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann

## Economics of the Welfare State

<b>Abbreviation</b>	HE2	
<b>Title</b>	Economics of the Welfare State	
<b>Learning objectives</b>	This module covers the economic theory of the welfare state. The students will be acquainted with the most important research questions and approaches. They will be enabled to examine problems of social policy with methods from economics.	
<b>Content</b>	The module uses methods from economics to analyse key aspects of the welfare state. We analyse insurance markets, cash and in-kind benefits, social insurance systems, and the optimal taxation of income. Furthermore, the focus will be on the insurance of important risks such as illness, unemployment, and the need for long-term care. Old-age pensions and the design of benefit schemes to avoid poverty will be additional key areas covered in this module.	
<b>Teaching methods</b>	Two types of concepts: lecture (2 contact hours, 4 credit points) and tutorial (1 contact hour, 2 credit points).	
<b>Language</b>	The course is taught in English.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Knowledge of the contents of modules M1a/M1b, M2, M3, and G1	
<b>Examination</b>	Type:	Written exam + (when indicated/announced) additional course achievement (short essays, solving of practice problems, short presentations to practice academic debate).  Type and scope of the required course achievements will be communicated at the start of the course. At that time, the participants will also be told, if and in which way course achievements

		can be used to acquire a bonus.
	Requirements for registration:	None
	Language of instruction:	English
	Time frame / Length:	At least 60 minutes. The duration of the exam will be announced at the beginning of the course.
	Weighting of class achievements incl. mid-term exams (if applicable)	The grade achieved in a successfully completed module exam can be improved by up to 0.7 through additional course achievements.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Lecture (2 credit hours), tutorial (1 credit hour) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory module for students with a Health Economics focus	
<b>Semester</b>	We advise to take this module in the third semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Specialisation Health Economics' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann	

## Advanced seminar Health Economics

<b>Abbreviation</b>	HE3
<b>Title</b>	Advanced seminar
<b>Learning objectives</b>	The students will expand their knowledge of recent research problems in the field of health economics. They will practice analytical as well as debating skills. They will also become acquainted with strategies of scientific research and will apply them when composing and defending their term papers. They will further acquire presentation skills that they will apply during the presentation of their written paper.
<b>Content</b>	The precise seminar topics will be related to current research in health economics.

<b>Teaching methods</b>	Seminar (2 credit hours, 6 credit points)	
<b>Language</b>	English	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Knowledge of the contents of modules M1a/M1b, M2, M3, G1, and HE1	
<b>Examination</b>	Type:	Written term paper and oral presentation of the results (term paper and presentation), unless announced otherwise.  Additional course achievements such as e.g. handouts, participation in class, final presentations, or exams can be part of the module exam if announced at the beginning of the seminar. If such additional achievement opportunities are announced, the weighting of the partial achievements as well as the way (in which) the module's final grade is calculated will be communicated at the start of the semester.
	Requirements for registration:	Regular attendance (compulsory attendance)
	Language of instruction:	English
	Time frame / Length:	The length of the term paper and the (duration of the) presentation will be announced at the beginning of the course.
	Weighting of class achievements incl. mid-term exams (if applicable)	Term paper: 70% Presentation of results: 30%
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	The individual course achievements of the seminar complement each other and build an inseparable unit. They are credited with 6 credit points in total.	
<b>Type of module</b>	Compulsory module for students with a Health Economics focus	
<b>Semester</b>	We advise to take this module in the third semester.	
<b>Recurrence of the module</b>	The module is usually offered each winter semester.	

<b>Duration</b>	One semester
<b>Applicability of the module</b>	The course is a core module of the 'Specialisation Health Economics' section of the M.Sc. Health Economics and Health Care Management.
<b>Person in charge of the module</b>	Prof. Dr. Mathias Kifmann

### Required elective area for the specialisation "Health Economics"

<b>Abbreviation</b>	HE4a / HE4b / HE4c / HE4d	
<b>Title</b>	Elective area for the Health Economics focus	
<b>Learning objectives</b>	The elective area is meant to give students the opportunity to study specific topics of economics and of health care management. Students are thus given the chance to further enhance their acquired knowledge in health economics and to combine it e.g. with knowledge from behavioural economics, labour economics, public economics, or with advanced courses in health care management.	
<b>Content</b>	Within the elective areas, courses from the M.Sc. Economics and other degree programs enable students to acquire knowledge from economics at an advanced level. Additionally, advanced knowledge from health care management is made available.  There will be a predetermined selection of modules that can be chosen as required electives.	
<b>Didactic concept</b>	See module description of the chosen module	
<b>Language of instruction</b>	The courses are taught in English or German.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Knowledge the contents of the G1 module	
<b>Examination</b>	Type:	See module description of the chosen module
	Requirements for registration:	See module description of the chosen module
	Language of instruction:	See module description of the chosen module
	Time frame / Length:	See module description of the chosen module

<b>Credit points</b>	To complete the required elective area successfully, students need to acquire a total of 24 credit points, e.g. 4 modules yielding 6 credit points each.
<b>Workload (overall and of separated for each part)</b>	See module description of the chosen module
<b>Type of module</b>	Required elective module
<b>Semester</b>	It is recommended to take two modules in the second semester and two modules in the third semester.
<b>Recurrence of the module</b>	Depending on choice of module
<b>Duration</b>	One semester, unless announced otherwise
<b>Applicability of the module</b>	In the master's program Health Economics and Health Care Management, students with a specialisation on Health Economics are required to take 4 modules in the elective area.  Students may choose up to 2 modules from the list of compulsory modules of the specialisation Health Care Management.
<b>Person in charge of the module</b>	According to choice of module

## Specialisation „Health Care Management“

### Pharmaceutical markets & market access

<b>Abbreviation</b>	HCM1	
<b>Title</b>	Pharmaceutical markets & market access	
<b>Learning objectives</b>	The course ‘Pharmaceutical Markets & Market Access’ introduces students to the management, policy and economic aspects of pharmaceutical markets. In addition, students will learn about the particularities of the pharmaceutical industry (long, risky innovation cycles). Students will be introduced to numerous instruments that will allow them to independently make management decisions.	
<b>Content</b>	<p>The course has the following main objectives:</p> <ul style="list-style-type: none"> <li>- Understanding the framework of pharmaceutical markets</li> <li>- Discussing the organisation and management of research and development (R&amp;D) activities in pharmaceutical companies</li> <li>- Providing frameworks to analyse strategic and operative marketing in pharmaceutical companies (product positioning, pricing, coping strategies with restrictive drug reimbursement policies, communication strategies)</li> <li>- Presenting the principles of drug distribution</li> </ul>	
<b>Teaching methods</b>	Students will attend main lectures (2 SWS, 4 Credit Points) and accompanying lectures (1 SWS, 2 Credit Points).	
<b>Language</b>	The course is taught in German.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written exam
	Requirements for exam registration:	None
	Language:	German
	Duration:	At least 60 minutes. The exact duration of the exam will be announced at the beginning of this module.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	

<b>Type of module</b>	Compulsory module for students with a Health Care Management focus
<b>Semester</b>	We advise to take this module in the second semester.
<b>Recurrence of the module</b>	This module is usually offered each summer term.
<b>Duration</b>	One semester
<b>Applicability of the module</b>	The course is a core module of the 'Specialisation Health Care Management' section of the M.Sc. Health Economics and Health Care Management.
<b>Person in charge of the module</b>	Prof. Dr. Tom Stargardt

## Accounting and performance measurement in hospitals

<b>Abbreviation</b>	HCM2	
<b>Title</b>	Accounting and performance measurement in hospitals	
<b>Learning objectives</b>	Students will learn theoretical and empirical methods and gain practical skills and knowledge in the field of accounting and performance measurement in hospitals. Furthermore, students will be enabled to analyze and assess hospital-specific features and requirements of controlling in hospitals when applying traditional controlling concepts. Students will also learn how to use various instruments for decision making. Thereby students will be enabled to make hospital management decisions.	
<b>Content</b>	The course gives an overview of hospital-specific controlling and accounting instruments. Students shall gain the knowledge and skills to analyze if and how traditional controlling instruments are applicable when taking the specific structural needs of the hospital sector into account. Further core issues of the course are methods of measuring hospital performance (Data Envelopment Analysis, Stochastic Frontiers), methods of estimating hospital cost functions, and methods for handling hierarchical data (Multilevel Modelling).	
<b>Teaching methods</b>	Students will attend main lectures (2 SWS, 4 Credit Points) and accompanying lectures (1 SWS, 2 Credit Points).	
<b>Language</b>	The course is taught in German, unless announced otherwise.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	None	
<b>Examination</b>	Type:	Written exam

	Requirements for exam registration:	None
	Language:	German, unless announced otherwise
	Duration:	At least 60 minutes. The exact duration of the exam will be announced at the beginning of this module.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	Main lecture (2 SWS), accompanying lecture (1 SWS) and self-study constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	Compulsory module for students with a Health Care Management focus	
<b>Semester</b>	We advise to take this module in the third semester.	
<b>Recurrence of the module</b>	This module is usually offered each winter term.	
<b>Duration</b>	One semester	
<b>Applicability of the module</b>	The course is a core module of the 'Specialisation Health Care Management' section of the M.Sc. Health Economics and Health Care Management.	
<b>Person in charge of the module</b>	Prof. Dr. Vera Hinz	

### Advanced / Main seminar

<b>Abbreviation</b>	HCM3
<b>Title</b>	Advanced / Main seminar
<b>Learning objectives</b>	Students acquire detailed knowledge of the current research questions in the areas of health care management and health economics. Students will train their analytical skills and critical thinking, learn how to write academic papers, and apply these skills in order to write and present their own research paper. Furthermore, students will also learn to improve their presentation techniques and will practice their public speaking skills through an oral presentation of their research paper.
<b>Content</b>	The actual seminar topics will be based on specific topics from the areas of both health care management and health economics. The list of topics will be available before the beginning of each semester.



<b>Teaching methods</b>	Seminar (2 SWS) 6 credit points	
<b>Language</b>	The course is taught in German, unless announced otherwise.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Previous participation in at least one of the courses from the major Health Care Management is strongly recommended.	
<b>Examination</b>	Type:	The final examination takes form of a written home assignment together with an oral presentation of the research results. Additional assignments, such as thesis papers, oral contributions to the seminar, concluding presentations, or tests can also become part of the module examination if announced so at the beginning of the seminar. If such additional assignments are announced, students will receive detailed guidelines to the evaluation procedure and to the calculation of the final grade already at the beginning of semester.
	Requirements for exam registration:	The attendance of the seminar is mandatory and is required in order to be allowed to participate in the final examination.
	Language:	German, unless announced otherwise
	Duration:	The expected length of the written home assignment and the duration of the presentation will be announced at the beginning of this module.
	Weighting of the submodule examinations	Written home assignment: 70%. Presentation: 30%.
<b>Credit points</b>	6 credit points	
<b>Workload (overall and if separated for each part)</b>	The separated examination parts build upon one another and constitute one inseparable unit and are valued at 6 credit points.	
<b>Type of module</b>	The course is a core module of the 'Specialisation Health Care Management' section of the M.Sc. Health Economics and Health	

	Care Management.
<b>Semester</b>	We advise to take this module in the third semester.
<b>Recurrence of the module</b>	The module is generally offered each semester.
<b>Duration</b>	One semester.
<b>Applicability of module</b>	The module is compulsory for students of the Health Economics and Health Care Management master's program with the study focus on Health Care Management.
<b>Person in charge of the module</b>	Prof. Dr. Tom Stargardt / Prof. Dr. Jonas Schreyögg

### Required elective area for the specialization „Health Care Management“

<b>Abbreviation</b>	HE4a / HE4b / HE4c / HE4d	
<b>Title</b>	Elective area for the Health Care Management focus	
<b>Learning objectives</b>	The elective area is meant to give students the opportunity to study specific topics of business administration and of health care management. Students are thus given the chance to further enhance their acquired knowledge in health care management and to combine it, e.g., with courses on human resources, marketing, public management, innovation management, organisation and business accounting.	
<b>Content</b>	Within the electives, courses from other programs on business administration can be chosen. Additionally, advanced knowledge from health care management is made available.  Choices can be made from a predetermined selection of modules.	
<b>Didactic concept</b>	See module description of the chosen module	
<b>Language of instruction</b>	The courses are taught in English or German.	
<b>Formal requirements for participation</b>	None	
<b>Recommended modules to be previously completed</b>	Knowledge the contents of the G1 module	
<b>Examination</b>	Type:	See module description of the chosen module
	Requirements for registration:	See module description of the chosen module

	Language of instruction:	See module description of the chosen module
	Time frame / Length:	See module description of the chosen module
<b>Credit points</b>	To complete the required elective area successfully, students need to acquire a total of 24 credit points, e.g. 4 modules yielding 6 credit points each.	
<b>Workload (overall and of separated for each part)</b>	See module description of the chosen module	
<b>Type of module</b>	Required elective module	
<b>Semester</b>	It is recommended to take two modules in the second semester and two modules in the third semester.	
<b>Recurrence of the module</b>	Depending on choice of module	
<b>Duration</b>	One semester, unless announced otherwise	
<b>Applicability of the module</b>	<p>In the master's program Health Economics and Health Care Management, students with a specialisation in Health Care Management are required to take 4 modules in the elective area.</p> <p>Students may choose up to 2 modules from the list of compulsory modules of the specialisation Health Economics.</p>	
<b>Person in charge of the module</b>	According to choice of module	