

LEGALLY binding  
is only the GERMAN version  
of the MODULHANDBUCH

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This is an abridged version of the HEPS/ISoS *Modulhandbuch* for non-German-speaking students.  
Some comments have been added.

Handbooklet to  
History, Economics and Philosophy of Science /  
Interdisciplinary Studies of Science,  
Master of Arts

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Beginning with the academic year 2019/20, the master's programme HEPS is topically expanded and includes sociology of science. This concerns the Introductory Module and the Main Module "Economics of Science" (HM2). In the Introductory Module, the "Introduction to the Economics of Science" is broadened into the "Introduction to Social Studies of Science," and the Main Module 2 becomes "Science and Society." Courses in the economics of science continue to be offered for a couple of years, and economics students are newly enrolled until the winter semester 2019/20. Students that are enrolled in HEPS/ISoS are offered additional courses in sociology, social anthropology, political science, and science, technology and society studies (STS). Students from the fields mentioned are encouraged to apply.

The Bielefeld course programme HEPS/ISoS is offered with an "International Track." This means that all courses necessary to receive the master's degree can be studied in English. Additional courses in German are offered so that international students are more restricted in the range of courses offered.

## Modules

[Table from <https://ekvv.uni-bielefeld.de/sinfo/publ/master-as/heps?m&lang=en>]

Acronym	Designation	LP <sup>1</sup>	Recom- mended start <sup>2</sup>	SL <sup>3</sup>	bPr <sup>4</sup>	uPr <sup>5</sup>
26-HEPS-EM	Introductory Module	20	1.	2	2	
26-HEPS-HM4	Main Module 4: Object disciplines	12	1. or 2.	2-3 uPr		
22-HEPS-HM1	Main Module 1: Development of Science	12	2. or 3.	1	1	
26-HEPS-HM3	Main Module 3: Methods in Science	12	2. or 3.	1	1	
26-HEPS-PM	Internship	12	2. or 3.			1
26-HEPS-AM	Final Module: Master's Thesis	30	4.	1	2	
30-HEPS-HM2_a	Main module 2: Science and Society	12	2. or 3.	1	1	
<b>In addition, 10 credit points must be gained within the individual supplementary area.</b>						

### Key to the Terminology

- 1 LP = Leistungspunkte = credit points.
- 2 The figures in this column denote the recommended semesters for beginning the module. Depending on the individual study schedule, entirely different courses of study are possible and advisable.
- 3 Number of Studienleistungen  
**SL = Studienleistung**  
**= non-graded piece of student work on a topic from the seminar**  
 Possible kinds of SL: brief seminar papers, exercises, discussion protocols as well as short essays. Exercises can be, for example: Writing a thesis paper, an argument reconstruction, a literature search or a summary of texts. A SL for one course encompasses at most 1,200 words in writing or oral contributions of at most 20 minutes.
- 4 Number of examinations with grades  
**bPr = benotete Prüfungsleistung = a graded exam**  
 Possible kinds: A term paper (Hausarbeit), oral exam, written examination (or alternative contribution) that is graded and forms part of the examination of the course program.
- 5 Number of examinations without grades  
**uPr = unbenotete Prüfungsleistung = a non-graded exam**  
 Possible kinds: same as for bPr; if a grade was given, it will not be taken into account. The exam must be passed (which means that a grade of at least 4.0 needs to be achieved).

**Please note:** SL and examinations (e.g., essays) need to be taken in the same semester as the course was attended. **Deadlines are: 30.09. in the summer term; 31.03. in the winter term.** (This may not apply to repeat testing.) For exceptions, please contact the instructor of the course early on. Late submissions without notice are not accepted. SL and exams can be taken in English.

## **Module 26-HEPS-EM Introductory Module** **[Einführungsmodul] [20 LP]**

Beginning only in the winter term; duration one semester.

### Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Introduction to History of Science</b>	seminar or lecture	winter term	120h (30 + 90)	4 [SL]
<b>Introduction to Philosophy of Science</b>	seminar or lecture	winter term	120h (30 + 90)	4 [SL]
<b>Introduction to Social Studies of Science</b>	seminar or lecture	winter term	120h (30 + 90)	4 [SL]
<b>Introduction to Science Studies</b>	seminar	winter term	120h (30 + 90)	4 [Pr]

### Examinations

Organisational allocation	Type	Weighting	Workload	LP
<b>Introduction to Science Studies (seminar)</b>  30 minutes	oral examination	1	60h	2
<b>Applicable to various courses</b>  Term paper (Hausarbeit) of up to 2,000 words to be written in one of the three introductory courses.	seminar paper	1	60h	2

## Structure

- 2 SL
  - In two of the three introductory seminars.
- 2 bPr
  - One graded term paper (Hausarbeit) of up to 2,000 words to be written in one of the three introductory courses. In the course where the term paper (Hausarbeit) is submitted, no SL is required.
  - One graded oral examination (30 min) in *Introduction to Science Studies*.

All courses of the introductory module are taught in English.

### Responsible for the Module

Prof. Dr. Marie I. Kaiser  
 Prof. Dr. Carsten Reinhardt  
 Prof. Dr. Holger Straßheim  
 PD Dr. Niels Taubert

## **Module 26-HEPS-HM4 Main Module 4: Object disciplines [Objektdisziplinen] [12 LP]**

Beginning each semester; complementary seminar takes place only in the summer term; duration one or two semesters.

## Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Complementary seminar/ Begleitveranstaltung</b>	seminar	summer term	60h (15 + 45)	2 [Pr]
<b>Object discipline</b>	seminar or lecture	Summer & winter term	300h	10 [Pr]

## General

The **Main module 4 (HM4): Object disciplines** is supposed to familiarize students with an empirical science, be it a natural science, a social science or mathematics. This module enables students to understand scientific thinking and scientific methods by taking a closer look into a particular field. Correspondingly, reflecting on science and doing science are intertwined with each other. Due to collaboration agreements with various departments, a broad range of introductory courses in the natural and social sciences is accessible. These are modules of Bachelor's programmes but are accepted in the framework of an interdisciplinary Master's programme. A complementary seminar links the science courses to the programme's objective of reflecting on science. Main module 4 is not graded.

If the BA-degree has been earned in a field that is eligible for an object discipline, only advanced courses in this field can be studied in this module. Students are encouraged to select a different field for their object-discipline module.

International students who are unable to follow classes taught in German need to work out, in cooperation with and assisted by the management of the programme, an individualised schedule of English-language courses in the sciences. However, the range of choice will be considerably smaller as compared to its German-language counterpart. In addition, it is to be expected that classes taught in English in the sciences are for the most part rather advanced so that previous knowledge might be requisite.

International students are strongly recommended to discuss their ideas for HM 4 with the coordinator (presently Niels Neier) or the professor responsible for the module (presently Carsten Reinhardt and Marie Kaiser). Although no grades are necessary for HEPS, "non-graded examinations" are required. At least one such examination must be passed in the module of the scientific field in question (it is not sufficient to exclusively earn Studienleistungen) (10 ECTS), another one comes from the complementary seminar (which is offered each summer term in the HEPS course programme) (2 ECTS). In view of the mentioned difficulty to identify suitable English-language courses, relevant courses from the history, economics and philosophy of science are accepted as courses in HM 4. For instance, a course in psychology could be combined with a course in the history of psychology, even if the latter was offered as part of HEPS, or a course in biology could be supplemented with a course in the philosophy of biology etc. This option is limited to one course. International students are strongly advised to discuss options and constraints with the programme management. Completion of this module is recommended for the first year.

## Structure

- 2-3 uPr
  - One or two non-graded examinations from the object discipline according to the respective module descriptions (an eventual grade will not be taken into account for HEPS).
  - One non-graded examination from the complementary seminar (Begleitveranstaltung): One short presentation + one essay (2,000 words)

for the colloquium on the object disciplines. This essay is supposed to reflect on your studies in the object discipline.

## Regular elements of the module

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Students are free to choose from the object disciplines between two modules of 5 LP each or one module of 10 LP.

### Two modules of 5 LP each:

Faculty of Biology:

- 20-NB

Faculty of Chemistry:

- 21-M4
- 21-M6
- 21-M8
- 21-M10

### Or one module of 10 LP has to be studied in accordance with the respective module descriptions:

Faculty of Biology:

- 20-BM1
- 20-BM2
- 20-M2

Faculty of Chemistry:

- 21-BM\_c

Faculty of Mathematics:

- 24-ARI
- 24-FKT
- 24-GEO
- 24-M-NAT1

Faculty of Educational Science:

- 25-BE2
- 25-BE-IndiErg8\_a (fully in English)

Department of Psychology:

- 27-A

Faculty of Physics:

- 28-P-NF-A

Faculty of Sociology:

- 30-M2

Faculty of Business Administration and Economics:

- 31-M1
- 31-M2

Faculty of Technology:

- 39-Inf-1

Faculty of Health Science:

- 40-M1

**Responsible for the Module**

Prof. Dr. Carsten Reinhardt

Prof. Dr. Marie Kaiser

## **Module 22-HEPS-HM1 Main Module 1:** **Development of the Sciences** **[Entwicklung der Wissenschaften] [12 LP]**

Beginning each semester; duration one or two semesters.

### Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Development of the Sciences I</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Development of the Sciences"	seminar or lec- ture	winter&summer terms	90h (30 + 60)	3 [SL]
<b>Development of the Sciences II</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Development of the Sciences"	seminar or lec- ture	winter&summer terms	90h (30 + 60)	3 [Pr]

### Examinations

Organisational allocation	Type	Weighting	Workload	LP
<b>Development of the Sciences II</b>	seminar	1	180h	6

A term paper of up to 6,000 words that demonstrates the skills relevant for the module. The topic will be discussed individually between students and supervisors and should be related to the relevant course.	paper			
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## Structure

- 1 SL
  - In *Development of the Sciences I*
  - The type of SL (Studienleistung) varies and is specified in the specific course
- 1 bPr
  - In *Development of the Sciences II*
  - One graded term paper (Hausarbeit), 6,000 words

### Responsible for the Module

Prof. Dr. Carsten Reinhardt

## **Module 31-HEPS-HM2 a Main Module 2: Science and Society [Wissenschaft und Gesellschaft] [12 LP]**

Beginning each semester; duration one or two semesters.

## Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Science and Society I</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Science and Society"	seminar or lecture	winter&summer terms	90h (30 + 60)	3 [SL]
<b>Science and Society II</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Science and Society"	seminar or lecture	winter&summer terms	90h (30 + 60)	3 [Pr]

## Examinations



Organisational allocation	Type	Weighting	Workload	LP
<b>Science and Society II</b>  A term paper of up to 6,000 words that demonstrates the skills relevant to the module. The topic will be discussed individually between students and supervisors and should be related to the relevant course.	seminar paper	1	180h	6

## Structure

- 1 SL
  - In *Science and Society I*
  - The type of SL (Studienleistung) varies and is specified in the specific course
- 1 bPr
  - In *Science and Society II*
  - One graded term paper (Hausarbeit), 6,000 words

### Responsible for the Module

Prof. Dr. Holger Straßheim

## **Module 26-HEPS-HM3 Main Module 3: Methods in Science [Methoden in der Wissenschaft] [12 LP]**

Beginning each semester; duration one or two semesters.

## Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Methods in Science I</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Methods in Science"	seminar or lecture	winter&summer terms	90h (30 + 60)	3 [SL]
<b>Methods in Science II</b>  One can choose from courses in the ekVV that are assigned to the Main Module "Methods in Science"	seminar or lecture	winter&summer terms	90h (30 + 60)	3 [Pr]

## Examinations

Organisational allocation	Type	Weighting	Workload	LP
<b>Methods in Science II</b>  A term paper of up to 6,000 words that demonstrates the skills relevant to the module. The topic will be discussed individually between students and supervisors and should be related to the relevant course.	seminar paper	1	180h	6

## Structure

- 1 SL
  - In *Methods in Science I*
  - The type of SL (Studienleistung) varies and is specified in the specific course
- 1 bPr
  - In *Methods in Science II*
  - One graded term paper (Hausarbeit), 6,000 words

### Responsible for the Module

Prof. Dr. Marie I. Kaiser

## **Module 26-HEPS-PM Internship [Praktikumsmodul]** **[12 LP]**

Beginning every semester; duration one or two semesters.

## Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Praktikum</b>	internship	winter&summer terms	240h (240 + 0)	8

## Examinations

Organisational allocation	Type	Weighting	Workload	LP
Written report on the internship of ca. 4,000 words, including a certificate of internship, that provides a scientific reflection of the internship and its embedding into the study program.	report	without grades	120h	4

## General

The length of the internship is six weeks. It should be completed during the term breaks (vorlesungsfreie Zeit) and is finished with a written report focusing on the theoretical reflection on the work carried out during the internship. In finding suitable internships existing contacts of the professors may be of help.

### **Necessary requirements**

The suitability of an internship is decided by the person responsible for the module [Prof. Dr. Holger Straßheim] before starting the internship.

### **Required modules**

26-HEPS-EM: Introductory module

### **Structure**

- 1 uPr
  - Internship of 6 weeks (approximately 240 hours)
  - One written report of about 4,000 words as a reflection on the internship and its embedding into science studies

### **Responsible for the Module**

Prof. Dr. Holger Straßheim

## **Module 26-HEPS-AM Final Module: Master's Thesis** **[30 LP]**

Beginning every semester; duration one or two semesters.

### **General**

In the final module, the master's thesis of approximately 70 pages (or approximately 30,000 words) is written. The processing time for the master's thesis is 5 months. A participation in the Examenskolloquium is required, where plans for the thesis are presented and discussed. In addition, the thesis is defended.

All persons are eligible for supervising a master's thesis who have taught in HEPS/ISoS while the relevant student was enrolled. Topics for the master's thesis need to come from history, philosophy, or economics of science or from social studies of science.

### **Necessary requirements**

The oral defence of the master's thesis can only be done after its submission and assessment as "passed".

### **Required Modules**

26-HEPS-EM: Introductory Module

26-HEPS-PM: Internship

## Structure

- 1 SL
  - Presentation of a master's thesis draft in the Examenskolloquium
- 2 bPr
  - Submission of a master's thesis of approximately 70 pages; the thesis is graded.
  - Graded oral defence (30 min) of the master's thesis

### Responsible for the Module

Prof. Dr. Marie I. Kaiser  
 Prof. Dr. Holger Straßheim  
 Prof. Dr. Carsten Reinhardt

## Courses

Title	Type	Regular cycle	Workload (contact time + self-study)	LP
<b>Examenskolloquium</b> Presentation ca. 30 min	colloquium	summer term	90h (30 + 60)	3 [SL]

## Examinations

Organisational allocation	Type	Weighting	Workload	LP
<b>Disputation of 30 minuten as a defence of the Master's thesis.</b>  The disputation takes place no later than three months after the notification of the evaluation of the master's thesis (at least 4.0). The purpose of the disputation is to determine whether the candidate is capable of presenting the results of the master's thesis and their professional background orally, of elaborating the results independently and of assessing their practical significance. The disputation is evaluated by the two supervisors of the master's thesis. Essential results of the defence are recorded in a protocol.	oral examination	1	180h	6

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**The Master's thesis is a written elaboration of approximately 70 pages. (or approximately 30,000 words)**

**master's thesis 9 630h 21**

The topic of the master's thesis is issued by the instructor supervising the thesis. The work will be registered with the Examination Office of the Faculty of History, Philosophy and Theology and the date of issue put on record. The processing time for the master's thesis is 5 months. The work has to be submitted in due course to the mentioned examination office. The work is reviewed by the supervisor. A second reviewer will be appointed by the persons responsible for the module, who will take into account the suggestions of the student.

Further regulations result from the Master Examination Regulations (Masterprüfungsordnung).

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## **Additional information:**

In addition to the modules described, 10 credit points for the **Individual Supplementary Area [Individuelle Ergänzung]** need to be earned. Courses can be selected from all over the University's programmes. You can use your German-courses for this area as well.

An English-language transcript of records can be obtained upon request.

## **Obligatory semester abroad:**

One semester is usually spent at a partner institution abroad. Under certain circumstances, exemption is possible. Reasons can be:

- Reason(s) listed and explained in **§ 16 Sec. 2 Prüfungsrechtliche Rahmenregelungen**. (Pregnancy, child care, ...) [[https://www.uni-bielefeld.de/themen/pruefungsrecht/pruefungsrechtliche-rahmen/#comp\\_00005f7143a4\\_000000212a\\_743e](https://www.uni-bielefeld.de/themen/pruefungsrecht/pruefungsrechtliche-rahmen/#comp_00005f7143a4_000000212a_743e)]
- Difficulties to finance a semester abroad;
- Study abroad prior to entering HEPS of no less than two semesters.

In order to be exempted from the semester abroad, the request needs to be approved by the person in charge [currently Prof. Carsten Reinhardt]. For this, please use this form: