Please note: The only official and thus legally valid version of the subject-specific examination regulations of the master course Environmental Physics is in German. This document is only for informational purposes for persons who are not proficient in the German language.

Subject-Specific Examination Regulations for the Master Course „Environmental Physics“ at the University of Bremen

Not officially consolidated reading version of the regulations dated 15 July 2020 + dated 15 May 2024

These subject-specific examination regulations apply along with the General Part of the Master's Degree Examination Regulations (AT MPO) at the University of Bremen dated 27 January 2010 in the respectively valid version.

§ 1

Scope of Studies and Final Degree

(1) For the successful completion of the master course „Environmental Physics“ (short title: „PEP“) a total of 120 credit points (CP) according to the European Credit Transfer and Accumulation System (ECTS) must be acquired. This corresponds to a regular degree duration of 4 semesters.

(2) The academic degree

Master of Science
(abbreviated
M.Sc.)

is conferred on the basis of the passed master examination.

§ 2

Structure of Studies, Modules and Credit Points

(1) The master course „Environmental Physics“ is studied as a Master's degree course according to § 4 paragraph 1 AT MPO.

(2) The course of study is structured as follows:

a) Master Thesis (incl. colloquium), 30 CP,

b) Compulsory Modules with a total of 69 CP,

c) Elective Modules with a total of 21 CP: The list of Elective Modules offered can be supplemented upon a decision of the examination board.

(3) Appendix 1 shows the recommended course of studies, appendix 2 regulates the required examination performances.

(4) Modules are conducted as compulsory or elective modules. Students may take up to two more elective modules than necessary to achieve the required number of credit points. Prior to the beginning of the last semester of study, students must indicate which elective modules are to be included in the final master grade

(5) The compulsory and elective modules provided in the curriculum are offered at least once a year.

(6) Modules are conducted in English.

(7) The courses assigned to the modules are indicated in the module guide.

(8) Courses are conducted according to § 6 paragraph 1 AT MPO.

(9) An optional study abroad is possible in the degree program. The recognition of achievements in the context of a study abroad are to be clarified with the examination board prior to the start of the study abroad.

§ 3

Examinations

(1) Examinations are conducted in formats pursuant to § 8 et seq. AT MPO and the regulations of the University of Bremen for the conduct of electronic examinations (DigiPrüfO UB/Digitalprüfungsordnung) in the currently valid versions. Furthermore, examinations can be conducted in the following format:

- report as final product of the preparatory project

In individual cases and upon request of an examiner, the examination board can accept further examination formats.

(2) According to § 20 paragraph 4 AT MPO, the repetition of an examination not passed can be conducted in a format deviating from the previous one.

(3) Deadlines and scopes of examinations are communicated to the students at the beginning of a module.

(4) Examinations are conducted in English.

§ 4

Recognition and Accreditation

The recognition or accreditation of achievements is carried out according to § 22 AT MPO in the respectively valid version.

§ 5

Admission Requirements for Modules

Except for the framework of § 6 paragraph 2, there are no admission requirements for modules.

§ 6

Module Master Thesis (including Colloquium)

(1) The module “Master Thesis” (30 CP) comprises the master’s thesis including a colloquium.

(2) 66 CP and thus passing all the compulsory modules except the module “Presentation Techniques in Environmental Physics” are required for the registration of the master’s thesis.

(3) The master’s thesis is to be completed within 24 weeks. Upon a written and justified request to the examination board this period may be extended once for a maximum of eight weeks.

(4) The master’s thesis is done as an individual work.

(5) The master’s thesis is written in English.

(6) A colloquium is part of the module “Master Thesis”. Master’s thesis and colloquium are marked with one common grade. The grade for the master’s thesis is considered with 2/3 and the grade for the colloquium with 1/3 for the common grade.

§ 7

Overall Grade of the Master Examination

The overall grade is made up of the grade of the master’s thesis and the grades of the modules weighted with credit points. Non-graded modules are not included in the calculation.

§ 8

Scope and Entry into Force

(1) These examination regulations come into force on 1 October 2020 after being approved by the President of the University of Bremen. They are published in the official gazette of the Free Hanseatic City of Bremen. They apply to students who start their studies in the master course “Environmental Physics” from the winter semester 2020/21.

(2) Students who started their studies before the winter semester 2020/21, can switch to these examination regulations upon request to the examination board. The request has to be submitted by 15 November 2020 at the latest. The examination board decides on the recognition of achievements depending on the individual case.

(3) The examination regulations of 9 July 2014, last amended on 26 June 2019, will expire on 30 September 2023. Students who won’t have finished their studies by 30 September 2023 switch to these examination regulations. The examination board decides on the recognition of achievements depending on the individual case.

Appendices:

Appendix 1: Degree curriculum of the master course „Environmental Physics“

Appendix 2: Modules and examination requirements

Appendix 1: Degree Curriculum of the Master Course „Environmental Physics“

The degree curriculum represents a recommendation for the course of studies. Students may attend the modules in a different order.

<table>
<tr><th colspan="2"></th><th colspan="3">Compulsory Modules,
69 CP</th><th>Master Thesis,
30 CP</th><th>Elective Modules,
21 CP</th><th>∑ 120 CP
CP/Semester</th></tr>
<tr><td rowspan="4">1. Year</td><td rowspan="2">1.Sem.</td><td>AMMDA
Applied Mathematical Methods and Data Analysis,
6 CP</td><td>AtC
Atmospheric Chemistry,
6 CP</td><td>AtPhy
Atmospheric Physics,
6 CP</td><td></td><td rowspan="2"></td><td rowspan="2">30</td></tr>
<tr><td>Dyn1
Dynamics I,
6 CP</td><td>PhyO1
Physical Oceanography I,
6 CP</td><td></td><td></td></tr>
<tr><td rowspan="2">2.Sem.</td><td>CliS1
Climate System I,
3 CP</td><td>Dyn2
Dynamics II,
3 CP</td><td>MeTe
Measurement Techniques,
6 CP</td><td></td><td rowspan="2">Elective Modules according to appendix 2.3,
12 CP</td><td rowspan="2">30</td></tr>
<tr><td>MES
Modelling of the Earth System,
3 CP</td><td>RemS
Remote Sensing,
3 CP</td><td></td><td></td></tr>
<tr><td rowspan="2">2. Year</td><td>3.Sem.</td><td>PresT
Presentation Techniques in Environmental Physics,
3 CP</td><td colspan="2">PrEPhy
Preparatory Project,
18 CP</td><td></td><td>Elective Modules according to appendix 2.3,
9 CP</td><td>30</td></tr>
<tr><td>4.Sem.</td><td colspan="3"></td><td>MTEPhy
Master Thesis,
30 CP</td><td></td><td>30</td></tr>
</table>

CP (credit points), Sem. (semester)

Appendix 2: Module and Examination Requirements

2.1 Master Thesis, 30 CP

Ref.-No.	Module Title	Module Type P/WP/W	CP	MP/TP/KP	Distribution of CP for TP	PL/SL (Number)
MTEPhy	Module Master Thesis (inclusive Colloquium)	P	30	MP	Thesis and Colloquium	PL: 2 SL: 0

Ref.-No. = Reference Number; P: Compulsory Module, WP: Compulsory Elective Module, W: Elective Module; CP = Credit Points; MP = Module Exam, TP = Partial Exam, KP = Combination Exam; PL = Exam Performance (= graded), SL = Course Performance (= not graded)

2.2 Compulsory Modules, 69 CP

Ref.-No.	Module Title	Module Type P/WP/W	CP	MP/TP/KP	Distribution of CP for TP	PL/SL (Number)
AMMDA	Applied Mathematical Methods and Data Analysis	P	6	MP		PL: 1 SL: 0
AtC	Atmospheric Chemistry	P	6	MP		PL: 1 SL: 0
AtPhy	Atmospheric Physics	P	6	MP		PL: 1 SL: 0
Dyn1	Dynamics I	P	6	MP		PL: 1 SL: 0
PhyO1	Physical Oceanography I	P	6	MP		PL: 1 SL: 0
CliS1	Climate System I	P	3	KP		PL: 1 SL: 1
Dyn2	Dynamics II	P	3	KP		PL: 1 SL: 1
MeTe	Measurement Techniques	P	6	KP		PL: 1 SL: 1
MES	Modelling of the Earth System	P	3	MP		PL: 1 SL: 0
RemS	Remote Sensing	P	3	KP		PL: 1 SL: 1
PresT	Presentation Techniques in Environmental Physics	P	3	KP		PL: 1 SL: 2
PrEPhy	Preparatory Project	P	18	MP		PL: 1 SL: 0

Ref.-No. = Reference Number; P: Compulsory Module, WP: Compulsory Elective Module, W: Elective Module; CP = Credit Points; MP = Module Exam, TP = Partial Exam, KP = Combination Exam; PL = Exam Performance (= graded), SL = Course Performance (= not graded)

2.3 Elective Modules, 21 CP

The modules listed here are a selection of the possible elective modules. The list can be supplemented upon a decision of the examination board, see also § 2 paragraph 2 letter c.

Ref.-No.	Module Title	Module Type P/WP/W	CP	MP/TP/KP	Distribution of CP for TP	PL/SL (Number)
AtCM1	Atmospheric Chemistry Modelling – (Part 1, Theory)	W	3	MP		PL: 1 SL: 0
AtSp	Atmospheric Spectroscopy	W	3	MP		PL: 1 SL: 0
BGC	Biogeochemistry	W	3	MP		PL: 1 SL: 0
CliM1	Climate Modelling: Part 1	W	3	MP		PL: 1 SL: 0
CliM2	Climate Modelling: Part 2	W	3	MP		PL: 1 SL: 0
CliS2	Climate System II	W	3	MP		PL: 1 SL: 0
ITE	Instrumental Techniques for Environmental Measurements	W	3	MP		PL: 1 SL: 0
IEPhy	Isotopes in Environmental Physics	W	3	KP		PL: 1 SL: 1
OOOC	Ocean Optics and Ocean Color Remote Sensing	W	3	KP		PL: 1 SL: 2
PhyO2	Physical Oceanography II	W	3	MP		PL: 1 SL: 0
PoOc	Polar Oceanography	W	3	KP		PL: 1 SL: 1

Ref.-No. = Reference Number; P: Compulsory Module, WP: Compulsory Elective Module, W: Elective Module; CP = Credit Points; MP = Module Exam, TP = Partial Exam, KP = Combination Exam; PL = Exam Performance (= graded), SL = Course Performance (= not graded)