

# Curriculum for MSc in Environmental and Resource Management

Curriculum for the Master of Science in Environmental and Resource Management

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This curriculum has been prepared under powers conferred by

- The Ministry of Higher Education and Science, The Danish Consolidation Act on Universities No. 778 of 7 August 2019 (The University Act)
- The Ministry of Higher Education and Science, Ministerial Order No. 1328 of 15 November 2016 on Bachelor and Master's Programmes (candidatus) at Universities (the University Programme Order) as amended in no. 902 of 27 June 2017, no. 258 of 19 March 2019 and no. 876 of 26 August 2019
- The Ministry of Higher Education and Science, Ministerial Order No. 1062 of 30 June 2016 on University Examinations and Grading (the Examination Order) as amended in no. 1503 of 28 November 2017, no. 1080 of 28 August 2018 and no. 878 of 26 August 2019
- The Ministry of Higher Education and Science, Ministerial Order No. 114 of 3 February 2015 on Grading Scale and Other Forms of Assessment of programmes within the area of the Ministry of Higher Education and Science (the Grading Scale Order)
- The Ministry of Higher Education and Science, Ministerial Order No. 106 of 12 February 2018 on Admission and Enrolment in Master's Programmes at Universities (the Masters' Programme Admission Order) as amended in no. 257 of 19 March 2019, no. 639 of 25 June 2019 and no. 891 of 26 August 2019
- The Ministry of Higher Education and Science, Ministerial Order No. 1188 of 7 December 2009 on Part-time study programmes at the universities (the Part-time Study Programme Order), as amended in no. 1533 of 16 December 2013, no. 260 of 18 March 2015, no. 1069 of 30 June 2016 and no. 877 of 26 August 2019
- SDU-Rules on the Study Progress Reform of 1 September 2017

This education is attached to the Study Board of Environmental and Resource Management.

This education is attached to the external examiners of Economics and Business Administration (Det Erhvervsøkonomiske Censorkorps) and the nationwide external examiners of the Engineering Educations (Ingeniøruddannelsernes Landsdækkende Censorkorps).

The Study Board may, when justified by exceptional circumstances, grant an exemption from the curriculum rules that is determined solely by the University, cf. University Programme Order, section 33, subsection 8.

*Relevant extracts from the Ministerial Orders, including references to the respective sections, are written in italics in the curriculum. However, it is recommended to read the Ministerial Orders in their entirety.*

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The curriculum applies to students commencing the Master's programme as from 1<sup>st</sup> September 2012 and later.

The curriculum was approved on 13/12-2011 by The Study Board of Environmental and Resource Management and on 30<sup>th</sup> January 2012 by the Dean of the Faculty of Business and Social Sciences.

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The Curriculum has been updated in the following sections:

Article 1.1

The Curriculum has been updated in correlation with version 1 in the following sections in correlation with version 2 of 2012:

- P. 1 The overall purpose of the study programme: changes in the formulation of the order
- P. 2.2.3 Principles for choice of examination methods: new paragraph
- P. 2.2.4 Principles for choice of teaching: new paragraph
- P. 3 Entry requirements, etc.: changes in the formulation of the order
- P. 4.3.1 Course titles, ECTS, weight and assessment: changes in assesment in the course *Enviromental chemistry*
- P. 4.3.3 The master's thesis: changes in the formulation of the order
- P. 4.3.4 Project-oriented studies and study abroad: changes in the formulation
- P. 5.10 Grading or the pass/fail assessment: changes in the formulation of the order
- P. 5.12 Examination appeals, etc.: changes in the formulation of the order
- P. 6.1 Transfer of credits: changes in the formulation of the order

The changes were approved on 20 May 2014 by The Study Board of Environmental and Resource Management and on 30 July 2014 by the Dean of the Faculty of Business and Social Sciences.

The Curriculum has been updated in correlation with version 2 in the following sections:

- P. 2.1.1 Rules on active study
- General update of references to orders and regulations

The changes were approved on 29 April 2015 by The Study Board of Environmental and Resource Management and on 29 July 2015 by the Dean of the Faculty of Business and Social Sciences.

The Curriculum has been updated in the following sections:

- P. 2.1 Time limit for completion of the study programmes: changes in the formulation of the order, degree must be finished no later than six months after the prescribed period of study
- P. 2.1.1 Rules on active study: changes in the formulation of the order, students must pass exams worth at least 45 ECTS credits each academic year
- P. 3 Entry requirements: changes in the formulation of the order, supplementary courses
- P. 4.3 Structure of the programme: changes in the formulation of the order
- P. 4.3.3 Registration for courses: from September 1<sup>st</sup> 2016 new rules at SDU
- P. 5.3 Examination requirements: new rules for prerequisites for taking the exam
- P. 5.6 Examination language
- P. 5.8 Registration for exam – new rules at SDU from September 1<sup>st</sup> 2016
- P. 5.9 Re-examination - new rules at SDU from September 1<sup>st</sup> 2016
- P. 5.13 Supplementary exams after admission to a Master's programme – new rules at SDU
- P. 5.14 Special examination conditions
- P. 6.1 Transfer of credits

The changes were approved on 30 June 2016 by The Study Board of Environmental and Resource Management and on 31 August 2016 by the Dean of the Faculty of Business and Social Sciences.

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The Curriculum has been updated in correlation with version 5 due to the following changes:

The name of The Study Board of Environmental and Resource Management has been changed to The Study Board of Market and Management Anthropology, Economics, Mathematics-Economics, Environmental and Resource Management.

As consequence of this, the curriculum has been updated.

4.3.1 Clarification regarding elective courses and weight.

4.3.2 Clarification regarding Project oriented work.

The changes were approved on 12 June 2018 by The Study Board of Market and Management Anthropology, Economics, Mathematics-Economics, Environmental and Resource Management and on 18 June 2018 by the Dean of the Faculty of Business and Social Sciences.

The Curriculum has been updated in correlation with version 6 due to the following changes:

The ordinary course Innovation Management will be offered for the last time in spring 2019, and the course has been replaced with the course Green Business, which has assessment: Internal, Grading: 7-point scale.

As consequence of this, the curriculum has been updated.

4.3.1

4.3.2

The changes were approved on April 23<sup>rd</sup> and September 17<sup>th</sup> 2019 by The Study Board of Market and Management Anthropology, Economics, Mathematics-Economics, Environmental and Resource Management and 21<sup>st</sup> May and 3<sup>rd</sup> of January 2020 by the Dean of the Faculty of Business and Social Sciences.

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## 1. The overall objectives of the study programme

*Cf. Sections 1 and 2 of the University Programme Order*

*Master's programmes are independently rounded full-time, research-based programmes on a fixed number of ECTS-points, which provide the student with expertise and methodological skills in one or more subject areas and qualify them to work independently in a professional capacity.*

*A subject area consists of a discipline or a group of related disciplines in one of the following areas: the humanities, theology, social science, natural science, health science or technical science.*

*The objectives of Master's programme is:*

- *to develop and expand the student's academic knowledge and skills and strengthen his or her theoretical and methodological qualifications and competencies, as well as increasing the student's independence relative to the bachelor degree level;*
- *to provide the student with an opportunity for in-depth studies through the application of advanced elements in the disciplines and methodologies of the subject area(s) in question, including training in scientific work and methodology that further develops the student's ability to work in a more specialised professional capacity and to participate in advanced scientific development work; and*
- *to qualify the student for further studies, including PhD programmes, see the Ministerial Order on the PhD Programme at the Universities and Certain Higher Artistic Educational Institutions (the PhD Order)*

*Cf. Enclosure 1 to the University Programme Order:*

*The purpose of the master's programme in technical/social science is to qualify the student to work in interdisciplinary teams at national and international level and solve complicated tasks in the resource and environment field, in planning, public administration, innovation, management and communication.*

The Study Board's additional provision:

### **1.1 Description of qualifications**

#### **Knowledge and understanding**

The Master of Science Programme in Environmental and Resource Management provide knowledge which, in the field of the technological/natural sciences and the social sciences and the connection between these two sciences is based on the highest international research.

The MSc in Environmental and Resource Management is able to understand and, on a scientific basis, to reflect on this knowledge and identify relevant scientific issues.

#### **Skills**

A MSc in Environmental and Resource Management can, in a qualified way, select and apply scientific methodologies and theories for models and theories within social and natural sciences and technology

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for obtaining knowledge to understand and analyse complex environmental and resource problems and to find balanced and sustainable solutions.

The MSc can set up new models for analysis and problem solution on the basis of the performed analyses.

The MSc is able to communicate his or her knowledge and can discuss professional and scientific issues with colleagues, management, and the surrounding society.

**Competences**

An MSc in MSc in Environmental and Resource Management can, in fields where knowledge of social conditions as well as nature and technology is demanded manage work and development situations that are complex, unpredictable and require new solutions and independently initiate and implement professional and interdisciplinary cooperation and take on professional responsibility.

The MSc is able to independently take responsibility for own professional development and specialisation.

The MSc programme in Environmental and Resource Management equips the student with competences to take on positions in national and international firms and organizations and in local, regional and national public institutions.



## 2. Organisation, etc.

### 2.1 Time limit for completion of the study programmes

*Cf. section 5 of the University Programme Order as well as SDU-Rules regarding Rules on Time Limits for Completion of Bachelors and Masters Programmes, cf. sections 1, 3*

*Master's (candidatus) programmes must be structured as full-time programmes so as to allow the student to complete a master's programme in twenty-two months in the fall or twenty-four months, for students beginning their studies in the spring semester.*

*The University is entitled to stipulate in the curriculum a final deadline after commencement by which the student must complete their Master's programme. In determining the maximum periods of study, the University must organise the programme in such a way that the student has the opportunity for three examination attempts in the programme's course or course elements.*

The Faculty's additional provisions:

Students enrolled in a Master's programme 1 September 2015 and onwards must have completed their degree no later than six months after the prescribed period of study, i.e. two years and six months after the start of study.

Students enrolled in a Master's programme before 1 September, 2015 the following rules apply:

Students enrolled in a Master's programme of two years must complete the Master's programme 28 February, 2018.

The university may grant exemptions from the above, if the student is an elite athlete, entrepreneur, chairman of an organisation under the Danish Youth Council (DUF) if exceptional circumstances exist, or if the university has not offered all three examination attempts in the examinations included in the programme. If the student does not meet the requirements set out above, enrolment will be cancelled.

#### 2.1.1 Rules on active study

*Cf. the Master's Programme Admission Order section 20*

*The University may stipulate that enrollment is terminated for students, who have not passed at least one exam for a consecutive period of at least 1 year.*

*Rules set by the University regarding completion of supplementary courses after admission to the Master Programme, applies regardless of regulations established pursuant to the above stated.*

*The University may grant exemptions from the rules, if exceptional circumstances exist.*

The Faculty's additional provisions:

The University terminates the enrollment for students, who have not passed at least one exam for a consecutive period of at least one year.

The University may grant exemptions from above stated study activity requirement if exceptional circumstances exist.

Additional rules on active study also apply to students enrolled 1 September 2015 or later as of 1 September 2016.

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*Cf. the Master's Admission Order section 18, The Examination Order section 20 as well as SDU-Rules regarding Rules for Study Activity at SDU sections 1-4*

*The University may lay down rules stipulating that students on the Master's programme on an ongoing basis or each year of study must pass exams measured in ECTS credits (study activity requirement) in order to be able to continue in the programme. This requirement can be set to exams with a total scope of no more than 45 ECTS credits each academic year. The University must ensure that the student has the opportunity for three examination attempts in the courses or course elements which are included in a study activity requirement.*

*The University may also lay down that a study activity requirement can be waived if the student is an entrepreneur or president in a voluntary organisation under the Danish Youth Council (DUF).*

*The University may grant exemptions from a study activity requirement laid down as mentioned above, if the student is an elite athlete, or if special circumstances apply.*

*Rules on Study Activity must be publicly available on the University's website.*

At the University of Southern Denmark, students enrolled 1 September 2015 or later must pass exams worth at least 45 ECTS credits each academic year.

Enrolment will be cancelled when a student has not been actively studying, equalling the requirement of passing exams worth 45 ECTS credits each academic year. Prior to this, the University must ensure that the student has had the opportunity for three examination attempts in the courses included in the study activity requirement.

If an insufficient level of study activity is noted after the first year of study, the student must be contacted with a view to offering guidance and perhaps support measures in order for him or her to resume active studies. If enrolment is cancelled, the person in question will be notified, indicating the date of termination of enrolment.

The University may grant exemptions from the above if the student is an elite athlete, chairman of an organisation under the Danish Youth Council (DUF), an entrepreneur or if special circumstances apply.

## **2.2 The structure of the study programme**

*Cf. Section 6 of the University Programme Order*

*The Bachelor and Master's (candidatus) programmes consist of a number of modules.*

*A module covers a subject element or a group of subject elements and is intended to provide the student with a totality of coherent academic qualifications and competencies within a specified time frame expressed in terms of ECTS points. Modules are concluded by one or more examinations conducted during the examination periods specified and defined in the curriculum for the programme in question.*

*60 ECTS points correspond to one year of full-time study.*

### **2.2.1 Modules and course elements**

*Cf. Enclosure 1 to the University Programme Order:*

*The master's programme consists of interdisciplinary and problem-oriented modules covering the technological development and organisation of production, the development of, and social background to, consumption patterns, the natural resources and conditions that are a prerequisite for production and consumption, the effect of the development of production and consumption on the environment, resources,*

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*everyday life and working conditions as well as resource and environment oriented policy, planning and regulation*

### **Study composition**

The study is composed of courses with subject matters of social sciences and natural sciences including engineering and technology. In addition, combination courses, project courses and a Master thesis are part of the constituent subjects. The first four quarters consist of compulsory courses (see section 4.3) composed to focus on both social and natural sciences. In the fifth and sixth quarter the student is free to choose various possibilities, to design his or her own profile. In the two last quarters the final constitute element is a Master thesis to be prepared, giving the student the possibility to test the competences obtained through the study.

### **2.2.2 Course descriptions and forms of examination**

The course descriptions are part of the curriculum describing the individual course. Course descriptions and forms of examination are updated twice a year before teaching in the course begins. The course descriptions contain information about:

- The Danish and English title of the course
- The campus town in which the course is offered
- The course level (Bachelor or Master degree course)
- The Study Board with responsibility
- The Study Board's date of approval
- The academic staff responsible for the course
- The responsible department
- ECTS-points /full-time equivalent
- Academic prerequisites (recommended but not required)
- The purpose of the course
- Course matter – central areas
- Goals description
- Literature
- Instruction periods (autumn or spring)
- Type of instruction and teaching language
- Examination schedule
- Examination conditions (must be fulfilled to sit the exam)
- Form of examination
- Internal or external assessment as well as 7-point grading scale or passed/failed

The maximum number of examinations after the completion of a course is three, unless the course is offered again. The examination form and syllabus will always be the ones currently applying.

Students may only attend courses that are part of the curriculum in which they are enrolled. Students may, however, apply to the Study Board for pre-approval of courses that are part of the curriculum of another study programme.

### ***2.2.3 Principles for choice of examination methods***

Choice of examination methods in each course must take into account several factors. There have to be a clear connection between the individual course's purpose, content, learning activities and examination form, so that the examination results in the course reflect the student's level of achievement of the learning objectives of the course.

As for the programme as a whole the aim is to have a variation of examination forms across courses, so that students overall are tested in the different types of knowledge, skills and competencies that are represented in the competency profile. This is to ensure that the student's overall examination results reflect the student's level of achievement of the programme's learning objectives.

### ***2.2.4 Principles for choice of teaching***

The underlying educational principles at the University of Southern Denmark are Active Teaching and Learning.

Teaching at the Faculty of Business and Social Sciences must live up to these principles, and the students, staff and management share the responsibility of ensuring that the principles are fulfilled throughout the entire course of study. The overall goal is to improve student learning on the basis of academic competency, academic development and pedagogical innovation in a committed learning community.

To provide students with skills and qualifications described in 1.1 is the programme in environmental and resource management built with a focus on achieving the theoretical knowledge and the academic competences. The individual course is taught with an emphasis on case studies, exercises, experiments and discussion so that the students with their own cognition construct knowledge and are introduced to the academic tradition. A consistent element in many courses is article review and presentation, peer critique and open tasks e.g. mini project. Collaboration and interdisciplinary skills are trained by organising in cross disciplinary groups. In all there is an expectation of teachers to be committed and student actively participation.

### 3. Entry requirements, etc.

*Cf. Section 11 of the University Programme Order, Master's Admissions Order sections 4-5  
Admission to the Master's Programme requires a relevant bachelor degree or other relevant Danish or foreign qualification at a corresponding level.*

*Within the framework of the University Programme Order, the University will stipulate in the curriculum for each Master's Programme, which bachelor degrees provide admission to the master's programme in question, and what special entry requirements, regarding courses and their value in terms of ECTS points, the student must have achieved on each Bachelor Programme in order to be admitted to the Master's programme.*

*The University may admit applicants who do not directly qualify, provided that they after admission to the Master's Programme implement additional training activity at the University up to a maximum of 30 ECTS.*

*The University may admit applicants who do not have a bachelor degree, but based on a specific evaluation, have educational qualifications equivalent to the requirements. The University may require completion of supplementary tests or additional training activities with conditional admission. Offer of additional training presupposes that the students while supplementing single subjects will be conditionally admitted to the applied Master's programme. A passed supplementary program thus entitles to admission to the applied Master's programme at the University in direct extension of the completed supplementary courses. The University may admit students who do not qualify, but is estimated to have educational qualifications equivalent to the prerequisites. The University may require supplementary tests or completion of additional training after the conditions above.*

*The University may stipulate that supplementation must be completed prior to study start at the Master's Programme or in parallel with the Master's degree first semester, or a combination thereof.*

*Applicants must disclose and apply for credit for completed courses from all previous unfinished programmes at equivalent level.*

*The university may admit applicants on a different basis than the stipulated admission requirements, if the applicant possesses comparable academic qualifications and provided that the university deems the applicant able to complete the programme.*

The Faculty's additional provisions:

A total of 30 ECTS supplementary courses can be allowed after completion of the Bachelor Programme. A maximum of 10 ECTS supplementary courses can be completed alongside the first semester of The Master's Programme. Thus the potential remaining 20 ECTS should be completed prior to the study start of the Master's Programme.

### ***3.1 Educational background with juridical right to the MSc in Environmental and Resource Management***

Applicants with a Bachelor of Science in Environment and Resource Management (former Environmental Planning) have juridical right to be enrolled in the MSc in Environmental and Resource Management within one year of the bachelor degree.

### ***3.2 Educational background which gives access to the Msc in Environmental and Resource Management***

Applicants with a Bachelor of Science in Environment and Resource Management (former Environmental Planning) older than one year have access to the MSc in Environmental and Resource Management.

### ***3.3 Applicants who do not hold the required basis for admission***

Applicants who do not have the required basis for admission, but who, on the basis of comparable academic qualifications, are assessed as possessing the necessary preconditions for being able to complete the programme, may apply to the University for admission.

Admission may be conditional on the passing of one or more supplementary examinations.

### ***Non-exhaustive list of educational backgrounds which gives access to the MSc in Environmental and Resource Management:***

#### **3.3.1 Bachelor's degree in Natural Science**

The university may admit applicants who have obtained a bachelor degree within natural science or the equivalent, such as geography, geology, biology, chemistry, physics, or biochemistry from a Danish or foreign university. The university may require that these students pass examinations that give the necessary specialist knowledge within social science.

#### **3.3.2 Bachelor's degree in Social Science**

The university may admit applicants who have obtained a bachelor degree within social science or the equivalent, such as economics, business economics, sociology, law, political science from a Danish or foreign university. The university may require that these students pass examinations that give the necessary specialist knowledge within natural science.

#### **3.3.3 Bachelor's degree in Technological and Agricultural Science**

The university may admit applicants who have obtained a bachelor degree within technological and agricultural science or the equivalent, such as agriculture, forestry, horticulture, food technology, and engineering from a Danish or foreign university. The university may require that these students pass examinations that give the necessary specialist knowledge within natural and social science.

## 4. Master's programme

### 4.1 Prescribed ECTS

*Cf. Section 20 of the University Programme Order*

*A Master's Programme comprises 120 ECTS points, unless a different value is stipulated for the individual programme.*

### 4.2 Designation

*Cf. Section 21 of the University Programme Order*

*A master's (candidatus) programme entitles the graduate to the Danish title 'cand.' (candidatus/candidata) followed by the Latin designation for the programme in question. The subject area in which the degree is awarded is specified last. The graduate is awarded the English title 'Master of Arts (MA)' or 'Master of Science (MSc)' followed by the subject area in which the degree is awarded (in English), see enclosure to the University Programme Order, unless another designation is stipulated in.*

*A master's (candidatus) programme which is designed to prepare graduates for a teaching career at upper secondary level entitles the graduate to the title which the central subject entitles the graduate to use followed by the subject area in which the degree is awarded for the minor subject.*

*Cf. Enclosure 1 to the University Programme Order:*

*Graduates are entitled to use the title*

*In English: Master of Science in Environmental and Resource Management.*

*In Danish: Cand.techn.soc. i miljø og ressource management.*

*Cand.techn.soc. (candidatus/candidata technices socialium)*

### 4.3 Structure of the programme

*Cf. Section 22 of the University Programme Order*

*A master's programme should be a rounded course that enhances the skills acquired by the student during the bachelor programme and qualify for admission to the PhD education.*

*The university organizes the course of study in a manner that ensures academic coherence and progression. The modular composition of the programmes must ensure that the student is normally able to choose between skill profiles relevant to a variety of professions.*

*Under the rules stipulated by the University in the curriculum for each programme, the master's programme will include the following:*

- 1. Course elements basic to the programme's particular academic competence and identity corresponding to a minimum of 90 ECTS points. This total must include a thesis worth 30 ECTS point.*
- 2. An elective course worth a minimum of 10 ECTS points.*

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### Study composition

The study is composed of compulsory courses in social sciences and natural sciences including engineering and technology and a compulsory master thesis. The first four quarters consist of the compulsory courses (see section 4.3.2) composed to focus on both social and natural sciences and designed with variation in instruction and tests. In the fifth and sixth quarter the student is free to choose various possibilities, e.g. project-oriented study, to study abroad, but also to prepare his or her own profile from a wide range of optional courses. In the two last quarters a Master thesis is to be prepared. The topic on the Master thesis is a self-elected assignment within the frames of environmental and resource management.

#### 4.3.1 Course titles, ECTS, weight and assessment

Course title	ECTS	Weight	Assessment
<b>Constituent compulsory courses (min 90 ECTS incl. Master's thesis):</b>			
Research Forum	3.75	0.375	Internal. Grading: passed/failed
Environmental chemistry	3.75	0.375	Internal. Grading: 7-point scale
Sustainability	7.5	0.75	Internal. Grading: 7-point scale
Resource characterization & conversion technologies of resources	7.5	0.75	Internal. Grading: 7-point scale
Project management	7.5	0.75	Internal. Grading: 7-point scale
Multivariate data analysis	7.5	0.75	Internal. Grading: 7-point scale
Holistic design for sustainability: Systems, processes and products	7.5	0.75	External. Grading: 7-point scale
Green Business	7.5	0.75	Internal. Grading: 7-point scale
Advanced environmental and resource economics and management	7.5	0.75	External. Grading: 7-point scale
Master's thesis	30	3.0	External. Grading: 7-point scale
<b>Elective courses (min. 10 ECTS):</b>			
Electives	30	30*	Dependent on subject chosen

**\*In calculation of the mean, the courses weigh according to their value in ECTS/10**



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### 4.3.2 Structure of content

*Cf. Sections 23, 24 of the University Programme order*

*Master programmes, which are built on bachelor programmes preparing graduates for a teaching career at upper secondary level, consists of a central subject and a minor subject. The central subject constitutes the main emphasis of the programme, and the minor subject's courses or courses elements in the bachelor and master's programmes constitute at least 90 ects credits.*

*The university may decide that Master's programmes enclosing a central subject must be combined with a supplementary subject within or outside the subject area of the central subject. The supplementary subject may either consist of subject clusters composed by the university or of elective subjects composed by the student. The university can decide that permission to choose a supplementary subject must be approved by the study board of the central subject. All above mentioned supplementary subjects must be chosen from among approved programmes.*

The Study Board's additional provision:

The Master's Programme consists of one central subject, Environmental and resource management. The central subject is planned as a section of 90 ECTS.

Please notice that permission to combine the central subject with a supplementary subject requires an approval of the Study Board responsible for the central subject.

The time schedule of the courses

QUARTER	COURSES		
7 & 8	Master's Thesis (30 ECTS)		
5 & 6	<b>Alternative 1</b> 30 ECTS from a combination of project-oriented courses, study courses and projects	<b>Alternative 2</b> 30 ECTS from courses taken at another university	<b>Alternative 3</b> 10 ECTS from a combination of project courses, study courses and projects, 20 ECTS from reporting on project-oriented works in companies or organizations.
4	Green Business (7,5 ECTS)	Advanced environmental and resource economics and management (7,5 ECTS)	
3	Multivariate data analysis (7,5 ECTS)	Holistic design for sustainability: Systems, processes and products (7,5 ECTS)	
2	Resource characterization & conversion technologies of resources (7,5 ECTS)	Project management (7,5 ECTS)	
1	Research forum (3.75 ECTS)	Enviromental chemistry (3.75 ECTS)	Sustainability (7.5 ECTS)

### 4.3.3 Registration for courses

*Cf. The Examination Order section 14 and SDU-Rules regarding Rules for Registration for Courses and Exams at the University of Southern Denmark sections 1-5*

*Registration for the Master's Programme's courses or course elements takes place in accordance with the internal regulations established by the University. The University must also lay down internal regulations for the location of and registration for the programme's ordinary exams (1st examination attempt) and for re-examinations (2nd and 3rd attempts). The University shall specify whether it is the University or the student who is responsible for the registration for examinations, including if registration for a course or course element also registers the student for exams and re-examinations. The University shall also specify if the student has the opportunity to deregister from an exam or re-exam in time, including deadlines for doing so. The student has used an examination attempt if he or she fails to deregister in due time.*

At the University of Southern Denmark there is no requirement for registering for a certain number of ECTS credits each academic year. It is the student's own responsibility to register for courses; however, there will be automatic enrolment to courses and first examination attempts in the first semester of the Bachelors Programme.

Registration for a course is also a registration for the first examination attempt. Registration for courses is binding, and deregistration is not possible after the expiry of the registration period.

Students may, however, change electives in the first three weeks of the semester provided that a study place is available on the desired elective course, and that the elective has the same ECTS value as the first course. The University may dispense from the above if the student is an elite athlete, or if special circumstances apply.

Registration for courses must be done via STADS self-service for the autumn semester: 20-30 May and for the spring semester: 20-30 November.

### 4.3.4 The Master's thesis

*Cf. Section 22 of the University Programme Order and cf. sections 14, 26 of the Examination Order*

*The Master's thesis must document skills in applying academic theory and methods to a specific academic subject. The thesis must be placed on the Master's degree's final year of study.*

*The University approves the subject matter for the thesis and the same time sets a deadline for submission of the thesis and a plan for supervision of the student. The thesis must be completed and delivered within the time frame of the curriculum for each program, established for that purpose, and applicable to full-time training.*

*If the student does not submit the thesis within the prescribed period, the University approves a modified subject matter, which must be within the same field and at the same time sets a new deadline of three months. If the student does not submit the thesis within the new deadline, the student gets a third examination attempt covered, similar to the rules that apply for the second examination attempt.*

*The above rules shall apply to theses when the student in the assessment does not achieve the grade 02, see The Grading Order. In special circumstances the University may, however, decide that the student must write a new thesis with a new topic and a new deadline.*

*The Master's thesis must include a summary in a foreign language. If the Master's thesis is written in a foreign language, other than Norwegian and Swedish, the summary can be written in Danish. The*

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*curriculum stipulates the extent to which the summary will be weighted in the overall assessment of the examination performance and the language in which the summary may or must be written.*

*When the University has set a deadline for submitting the Master's thesis, cancellation cannot take place and an examination attempt has been used in the event that the student does not submit the thesis within the prescribed period, unless the University has made an exemption because of exceptional circumstances or if the student is an entrepreneur or chairman of a voluntary organization under the Danish Youth Council (DUF). If the student does not achieve a minimum grade of 02 in the assessment of the thesis, an examination attempt is used.*

The Study Board's additional provision:

Reference is made to the course description of the master's thesis for information on study and the possibility of group work, enrolment and exam.

#### **4.3.5 Project-oriented studies and study abroad**

*Cf. Section 25 of the University Programme Order*

*A master's degree programme may, within the prescribed period of study, contain project-oriented courses, possibly associated with sectors outside the university in Denmark or abroad. A project-oriented course is included in the degree programme as an integrated part of the programme's courses or course elements, and is concluded with an exam. The university must ensure that the student, during a project-oriented course, achieves the established learning outcomes. In addition, the university provides students with academic supervision as part of the course. If a project-oriented course is associated with sectors outside the university, the course must be approved by the university before the student commences. As part of the approval, the university must consider if the course is academically relevant to a degree programme and can be organised within the prescribed study period. In the curriculum for the degree programme, the university shall stipulate more detailed rules on project-oriented components.*

*The Minister may lay down rules for students in Bachelor's and Master's programmes, stating that they can participate in and receive a salary during project-oriented studies abroad, provided that there are legal requirements for a minimum wage in the country concerned.*

*The Minister may also lay down rules that Bachelor's and graduate students can receive a gratuity during unpaid project-oriented courses, unpaid internship and compulsory unpaid study stays in Denmark and abroad.*

Companies and organisations can give students in unpaid project-oriented studies and in unpaid study stays a gratuity of up to DKK 3,000 a month.

Students who participate in project-oriented studies abroad may receive a salary, if there are legal requirements for a minimum wage in the country concerned.

The Study Board's additional provision:

Study abroad requires preapproval from the individual courses from the Study Board

Students can combine the Master of Science study with practical training or internship in a project-oriented study. For a project-oriented study, each student must arrange his/her project in according to the course description. If a project-oriented study is beyond the scope of the course description a preapproval from the Study board is required.

The study board can approve up to a total of 20 ECTS in credit transfer for one or more periods of project-oriented studies if an approved report is available.

#### **4.3.6 The Master's Degree part of the 4+4 PhD programme**

PhD students enrolled as 4+4 students can complete the Master's programme on special conditions which are described in the Guidelines for PhD Programmes at the PhD School at the Faculty of Business and Social Sciences. The student completes the graduate programme by passing the qualifying examination. The qualifying examination is equivalent to a Master's thesis and it is arranged in accordance with the description of objective for the Master's degree programme and it is held with external censorship cf. the Education Order for the Curriculum for the Master programmes.

#### **4.3.7 Study groups**

Study groups can be established as a replacement of a course due to a small class (a) or as a replacement of an elective course (b).

(a) Study groups established due to a small class is carried through in accordance with the course description except for the teaching method.

(b) Study groups as a replacement of an elective course consists of a smaller number of students who in corporation with a teacher plans a lesson plan which is equivalent to an elective course. Study groups can be established on the effort by a group of students or a Department or the Study Board. There has to be at least 4 students before a study group is established. The students arrange topic and course description with a teacher and apply to the Study Board for permission. The Study Board hereafter announces permission to establish the study group. The Study Board considers application any time and study groups can be carried through independent of the quarter-system. The exact exam requirements are determined in collaboration between the Study Board, the course coordinator and the course responsible.

#### **4.4 Requirements for passing, etc.**

*Cf. Sections 15-18 of the Grading Scale Order*

*A student has passed an exam when he/she achieves the grade 02 or the assessment passed. A passed examination may not be retaken.*

*If an examination consists of several partial examinations, the grade for the total examination must be at least 02. If the total examination is passed, partial examinations for which grades 00 or -3 have been awarded, cannot be retaken. Even if the total exam is failed, partial examinations for which a grade of 02 or higher is awarded cannot be retaken.*

*It may be stipulated that two or more exams must be passed within the same examination term.*

*It may be stipulated that two or more exams must be passed on the basis of a grade average. If so, the average must be at least 2.0 without any rounding up.*

*It shall be stipulated which grades are included in the total examination result.*

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*It may be stipulated that the total examination result is expressed by means of an average figure. One decimal must be included in the calculation of the average figure. An examination is passed if the average figure is at least 2.0 without any rounding up and if all examinations assessed as passed/failed have been passed.*

*If an average is not calculated, all tests included in an examination must be passed.*

The Study Board's additional provisions:

The student has graduated when he/she has achieved the mark 02 or higher or the assessment passed for each individual course.

When calculating the average, the weight of the courses depends on the course's ECTS value and is included in the calculation as follows:

*7.5 ECTS:* included in the examination average at the weight of 0.75.

*3.75 ECTS:* included in the examination average at the weight of 0.375.

*The thesis:* included in the examination average at the weight of 3.0.

As a main rule the grades 00 or -3 may be part of the assessment in partial examinations. If either have been awarded, the grade cannot be retaken.

In case the grades cannot be part of the assessment, it will appear from the course description.

## 5. Examination, etc.

*Cf. Section 30 of the University Programme Order*

*The University is obliged to inform and guide the students of the exam rules that apply for each programme.*

### 5.1 Syllabus description

Each semester the examination syllabus is published on the study programmes homepage [www.sdu.dk](http://www.sdu.dk). The examination syllabus is part of the curriculum. Examination will always be held according to the most recent syllabus.

### 5.2 Ordinary examination

As a main rule, ordinary examinations are held in the end of the teaching term, January and June. This will be stated in the respective course descriptions.

The Study Board's additional provision:

As a main rule, ordinary examinations are held in the end of the teaching term in each quarter. This will be stated in the respective course descriptions.

### 5.3 Examination requirements

*Cf. The Examination Order section 3 and SDU-Rules regarding Rules for Registration for Courses and Exams sections 7- 8*

*The University may lay down rules in the curriculum stipulating:*

- 1) That a course or course element, if the content or working methods so warrant, may be documented fully or partly through a requirement for participation in the course.*
- 2) That a requirement for participation in a course must be a prerequisite for the student to sit an exam in the course or course element.*
- 3) That a requirement for submission of written papers, oral presentations etc. during the course is a prerequisite for the student sitting the exam in the course or course element.*
- 4) That the student prior to the evaluation of the written exam paper must perform an oral defence of the assignment. The evaluation will be based on an overall assessment of the written paper and the oral performance.*

*The University may also lay down rules in the curriculum stipulating that the assessment of written papers and oral presentations etc. during the course of teaching are included as parts of the awarding of marks together with the final exam in a course or course element. The rules must state in which way written papers, oral presentations, etc. are parts of the overall evaluation of the student's performance in the course or course element. The University may determine that the student may not take the final exam, unless the student has passed the course. Complaints about an assessment given during a course must be submitted to the University by the student.*

University prerequisites for participating in an exam must be met, in order to participate in the re-exam. In the event that a student does not meet the established university prerequisites for taking the exam, he or she has used one examination attempt.

If the University does not offer the student the opportunity to meet the prerequisites laid down, the University may offer a re-exam with a different set of university prerequisites than for the ordinary exam. Prerequisites for participation in exams which have been met before the first ordinary exam do not have to be repeated at a new examination attempt.

#### **5.4 Examination aids**

Computers are used for submission of answers at all written examinations at Faculty of Business and Social Sciences. The students are expected to bring their own computer, which can be hooked up to the university's wireless network, and that software programs are installed corresponding to those of the standard Microsoft Office Package including the ability to create PDF files for submission of exam papers.

Digital exams are conducted taking into account the IT-facilities at the campus in question.

Permitted aids, including internet access will appear in the course description. For further information see Policy for Digital Examination at Social Sciences for further information.

#### **5.5. Group Exam**

*Cf. Sections 4 and 5 of the Examination Order*

*Taking the curriculum's academic considerations into account, the university establishes whether an exam is organized as an individual exam or as a group exam. When an exam is organized as a group exam, the university shall establish the maximum number of students allowed to participate in each group exam, and whether the student may choose an individual exam instead. In connection with both an individual and a group exam, an individual assessment must be made of the students' performance, and separate grades must be given.*

*In connection with an oral group examination, each student will be examined in such a way as to ensure that there would be an individual assessment of the student's performance. When organising an oral group examination, the university must ensure that the time allotted for the exam is adapted to the number of students participating in the exam.*

*In connection with a paper written by a group of students, separate grades or other form of assessment may only be given if the individual student's contribution can be established. The university shall establish the requirements for individualisation in the curriculum.*

*If a separate grade or other form of assessment is not given for a paper written by a group of students, the paper may be included in the subsequent oral examination. If the university conducts an individual oral examination as a follow-up to a paper written by a group of and as a follow-up to a possible oral group exam, these students may not be present in the examination room before they are examined in the individual oral exam.*

The Faculty's regulations:

The number of students in a group exam can generally be a maximum of 4. The Study Board may decide to deviate from the rule. If so, this shall be described in the course description.

## **5.6 Examination language**

*Cf. Section 6 of the Examination Order, Master's Admission Order section 15*

*Examinations are conducted in Danish unless part of the purpose of the examination is to document the students' abilities in a foreign language. The examinations may be conducted in Swedish and Norwegian instead, unless part of the purpose of the examination is to document the students' abilities in Danish.*

*The university may, if circumstances make it possible, allow the student to conduct the examination in a foreign language, unless the purpose of the examination is to document the students' abilities in Danish or in a specific foreign language.*

*If a course has been taught in a foreign language, the examinations will be held in that language, unless the purpose of the examination is to document the students' abilities in another language. The University may grant exemptions from this rule.*

*If the programme is offered in English or another foreign language, the examinations will be conducted in the same language, unless the purpose of the examination is to document the students' abilities in another language. The University may grant exemptions from this rule.*

*If a course is offered with lines of various languages, the student must be able to carry out the majority of the programme's elements in the language of the line in which the student is enrolled.*

The Study Board's additional provision:

Should it be desired examinations may be conducted in Danish provided that the lecturer is Danish speaking. The exam assignments will however be given in English.

## **5.7 Number of examination attempts**

*Cf. Section 13 of the Examination Order*

*A passed exam may not be retaken, cf. the Grading Scale Order.*

*Students are entitled to three attempts to pass an examination. Under special circumstances, the University may allow further attempts. The question of academic aptitude must not be included when assessing whether special circumstances apply.*

*Students are entitled to three attempts to pass the examination(s) that form part of the supplementary studies, unless the University has stipulated that the students are entitled to one or two examination attempts only.*

*In the curriculum, the University lays down rules on examinations forming part of the supplementary studies, including the number of examination attempts.*

## **5.8 Registration for exam**

*Cf. The Examination Order section 14 and SDU-Rules regarding Rules for Registration for Courses and Exams at the University of Southern Denmark sections 1-7*

Registration for the Master's Programme's courses or course elements takes place in accordance with the internal regulations established by the University, cf. The Order on Bachelor's and Master's Programmes at Universities. The University must also lay down internal regulations for the location of and registration for the programme's ordinary exams (1st examination attempt) and for re-examinations (2nd and 3rd attempts). The University shall specify whether it is the University or the student who is responsible for the registration for the examinations, including if registration for a course or course element also registers the student for

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The programme is offered in English in Esbjerg

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exams and re-examinations. The University shall also specify if the student has the opportunity to deregister from an exam or re-exam in time, including deadlines for doing so. The student has used an examination attempt if he or she fails to deregister in due time.

The Faculty's additional provisions:

The student is automatically registered for the first examination attempt when the student is registered for a course or course element with which one or more examinations are associated. Withdrawal of registration is not possible, and students who fail to participate in an examination have used one examination attempt, unless the University has made an exemption due to special circumstances. If a student does not meet the established university prerequisites for taking the exam, he or she has used one examination attempt, unless the University has made an exemption due to special circumstances.

Students who have not passed a course at the second examination attempt can register for a third attempt the next time the ordinary exam is held.

It is the student's responsibility to register for courses and exams.

Registration deadlines for re-exams are published on the website.

Exam dates will be published on [www.sdu.dk](http://www.sdu.dk). The student is responsible for keeping himself/herself informed about exam details.

The Study Board's additional provision:

Time and place for examination is published on the internet [www.sdu.dk](http://www.sdu.dk) - find your education and the page about exam. It is the student's own responsibility to keep them informed about exam on the exam pages.

## 5.9 Re-examination

*Cf. The Examination Order section 14 and Rules for Registration for Courses and Exams at the University of Southern Denmark sections 8-9*

*Registration for the Master's programme's courses or course elements takes place in accordance with the internal regulations established by the University, cf. The Order on Bachelor's and Master's Programmes at Universities. The University must also lay down internal regulations for the location of and registration for the programme's ordinary exams (1st examination attempt) and for re-examinations (2nd and 3rd attempts). The University specifies whether it is the University or the student who is responsible for the registration for examinations, including if registration for a course or course element also registers the student for exams and re-examinations. The University also specifies if the student has the opportunity to deregister from an exam or re-exam in time, including deadlines for doing so the student has used an examination attempt if he or she fails to deregister in due time.*

On programmes where the examination period is at the end of the autumn semester, students who do not pass the ordinary exam can register for re-exam (2nd examination attempt) in the same examination period or immediately thereafter, but no later than on the last weekday in April. On programmes where the examination period is at the end of the spring semester, students who do not pass the ordinary exam can register for re-exam (2nd examination attempt) in the same examination period or immediately thereafter, but no later than on the last weekday in August.

On programmes where there are more exam periods than the above, students who have not passed the ordinary exam can register for re-exam (2nd examination attempt) as soon as possible, but no later than 6 months after the holding of the ordinary exam.

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Students may not withdraw registration for re-exam after the expiry of the registration period. The University can lay down in the curriculum that the re-exam has a different form of assessment or examination than the ordinary exam. In connection with the holding of ordinary exams, students will be informed about when they can register for re-exams. The University may dispense from the above if the student is an elite athlete, or if special circumstances apply.

Re-examinations are granted by the Examinations Office based on an application accompanied by documentation for the illness. If the application has been accepted, the attempt at the ordinary examination will be cancelled. Re-examinations are held in February and August. The Study Board can decide to change the examination and assessment form. This will be announced after the registration deadline.

The Study Board's additional provisions:

For quarter courses in Esbjerg, the following is valid:

Re-exams are in January and June.

For courses in 1<sup>st</sup> and 4<sup>th</sup> quarter the re-examinations are in January, and for courses in 2<sup>nd</sup> and 3<sup>rd</sup> quarter the re-examinations are in June. Deviation from the rule and further details are given in course the descriptions. To participate in a re-examination the student must have participated in the ordinary examination in the same semester. The Study Board can decide to change the evaluation form. This will be announced after registration deadline

Illness related make-up examinations are held at the same time as re-examinations in January and June.

### **5.10 Internal or external examination**

*Cf. Section 22 of the Examination Order*

*At least 1/3 of a programme's total ECTS-points must be obtained at external tests. External tests must cover the important parts of the programmes, including the Master's thesis. This does not, however, apply to credits that have been transferred.*

### **5.11 Grading or the pass/fail assessment**

*Cf. Section 25 of the Examination Order*

*Assessment is graded using the 7-point grading scale or by the assessment "Passed" or "Failed" or the assessment "Approved" or "Not Approved", cf. the Grading Scale order*

*The master project is assessed using the 7-point grading scale. Course participation is given the assessment "Passed" or "Failed" or "Approved" or "Not Approved".*

*The assessment Passed/Failed or Approved/Not approved may only be used for test that account for a maximum of 1/3 of the programme's ECTS points. This does not, however, apply to credits that have been transferred.*

### **5.12 Spelling and writing skills**

*Cf. Section 26 of the Examination Order*

*When assessing master thesis and other major written assignments, as well as their academic content, emphasis should also be placed on the students' spelling and writing skills.*

*The university may grant exemptions for students who are able to document a relevant and specific impairment, unless assessing spelling and the ability to formulate oneself are significant objectives of the examination.*

The Study Board's additional provision:

Major written papers are defined as papers that are delivered in the form of a report and where the contribution of the individual student amounts to 10 pages or more. The impact of the student's spelling and writing skills on the grade is limited, unless there are considerable marked deviations from the usual academic language.

### **5.13 Supplementary exams after admission to a Master's programme**

*Cf. The University Programme Order sections 11-12*

*Rules applying to this situation will be updated before 1 September 2016.*

The Study Board's additional provision:

None.

### **5.14 Special examination conditions**

*Cf. section 7 of the Examination Order*

The University may offer special examination conditions for students with physical or mental impairment and for students whose native language is not Danish, if deemed necessary by the University to provide the students concerned with equal opportunities in the exam situation. Such an offer must not, however, change the standard of the examination.

### **5.15 Examination appeals, etc.**

*Cf. Sections 34 -37 of the Examination Order*

*Appeals about tests or other forms of assessment forming part of the examination shall be submitted to the university by the student. Appeals shall be submitted in writing and include an explanation of the reasons for the appeal.*

*The appeal shall be submitted within two weeks of the assessment being announced. However, the two-week period shall start at the earliest from the date of the announcement of the assessment. Under special circumstances, the university may grant exemptions from the deadline for submission of appeals.*

*The complainant shall, within 2 weeks after the university's decision is communicated to the complainant, accept the offer of re-assessment or re-examination. Re-assessment or re-examination must take place as soon as possible. If the diploma has been awarded, the university must revoke it until the assessment has been completed and, where appropriate, issue a new diploma. In case of re-assessment and re-examination, the university shall appoint new examiners, and co-examiners shall be appointed by the chairman of the external examiners.*

*In connection with re-assessments, the assessors shall be provided with the case files, including the assignment, the appeal, the original assessors' opinion, the complainant's comments and the university's decision.*

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*The assessors shall notify the University of an assessment at a re-assessment and re-exam which may result in a lower grade. In connection with re-assessment of written exams, the assessors shall enclose a written justification for the assessment. The assessment after re-assessments and re-exams cannot be referred to any other administrative authority.*

## 6. Other regulations

### 6.1 *Transfer of credits*

*Cf. Sections 36-38 and 40 of the University Programme Order*

*Under the ministerial order, successfully completed programme elements equate to corresponding ones at other Universities that offer similar programmes under the terms of this order.*

*The University may, in each individual case, or by laying down general rules, grant approval for successfully completed programme elements covered by the ministerial order to replace programme elements from another programme on same level under this order (credit transfer). The University may also grant approval for successfully completed programme elements from another Danish or foreign programme to replace programme elements at the University under the terms of this order.*

*Decisions must be made on the basis of an academic evaluation.*

*Students who, as part of their programme, want to complete elements of the programme at another University or institution of higher education in Denmark or abroad can apply the home university to have credit transferred in advance for planned programme elements.*

*Credit transfer in advance may be granted only if the student, in connection with the application for credit transferred in advance, obliges to submit the necessary documentation to whether the programme elements have been passed or failed to the home university, when the preapproved credited programme elements are completed. The student must also give his/her consent that the home University may obtain the necessary information from the host institution if the student is unable to obtain the documentation.*

*When it can be documented that the credit transferred programme elements have been passed, the home University administratively approves that these credits are transferred into the programme at the university.*

*On a proposal from the student, the University can, in cases where e.g. the preapproved programme elements are not offered at the host institution, make changes to the approval of the pre-approved credit transfer. The student is responsible for and must take the initiative for drawing up a proposal for a study plan. The University provides academic support if the students request it.*

*When transfer of credits has been either refused or partly refused by the University, the decision can be appealed to the board of appeals for credits according to the ministerial order.*

The Study Board's additional provisions:

None.

### 6.2 *Complaint*

*Cf. Section 39 of the University Programme Order*

*Under terms of the University Programme Order, the student may appeal decisions made by the university to the Danish Agency for Higher Education if the appeal is based on legal issues. The appeal is submitted to the University, which must provide the complainant with a written response and a minimum of one week in*

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*which to consider the response. The University submits the appeal to the Agency of Higher Education along with its statement and any supplementary comments made by the complainant. The deadline for the submission of appeals is one week from the day when the decision is announced to the complainant.*

### **6.3 Transitional rules**

Curriculums which have been published before the present curriculum replaces the references to sections of the former ministerial orders with the new ministerial orders cf. page 2.

Students who have been enrolled in the Master's programme earlier than September 2012 can continue their study in accordance with previous curricula. However, the university wants to draw your attention to the fact that the ministerial orders to which the curriculum refers are cancelled.

The ministerial order number 814 of 29<sup>th</sup> of June 2010 replaces the ministerial order number 338 of 6<sup>th</sup> of May 2004, and the ministerial order number 857 of 1<sup>st</sup> July 2010 replaces the ministerial order number 867 of 19<sup>th</sup> August 2004.

The text in the new ministerial orders replaces the references to the sections of the former ministerial orders in the curriculum.

Students who were enrolled under previous curricula and wish to transfer to the current curriculum must send an application to the study board.

Once a student has transferred to the current curriculum, it is not possible to return to the earlier curriculum.