

Faculty of Science Course and Examination Regulations Master's Programmes

valid from September 01, 2012

These course and examination regulations have been drawn up in accordance with Section 7.13 of the Higher Education and Research Act [Wet op het hoger onderwijs en wetenschappelijk onderzoek] (WHW)¹ and additional quality marks as set out in the framework document Leiden University Register of Study Programmes [Leids universitair register opleidingen].

Pursuant to Section 7.14 of the Act the faculty board regularly evaluates the course and examination regulations and assesses, for the purpose of monitoring and, if necessary, adjustment of the study load, the time it takes students to comply with the regulations. In conformity with Section 9.18 of the Act is assigned the task of assessing how the course and examination regulations are implemented.

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Appendix: Master degree Programmes

^{1.} The Dutch Higher Education and Research Act [Wet op het hoger onderwijs en wetenschappelijk onderzoek] came into effect on 1 September 1993. It is sometimes referred to by its acronym WHW.

Chapter 1 General Provisions

Article 1.1 Scope of the Regulations

These regulations apply to the teaching and examinations of the master's degree programmes in:

- a. Mathematics;
- b. Computer Science;
- c. ICT in Business;
- d. Media Technology;
- e. Astronomy;
- f. Physics;
- g. Chemistry
- h. Bio-Pharmaceutical Sciences;
- i. Biology;
- i. Life Science & Technology Leiden;

The programmes are offered by the Faculty of Science of Leiden University, hereinafter referred to as: the faculty.

Article 1.2 Definitions

In these regulations the following definitions apply:

а	board of admissions:	the committee the	it, under the aegis and on behalf of the faculty board, and	ı
а.	board of admissions.	the committee the	it, under the aegis and on behan of the faculty board, and	

in accordance with the admission requirements, advises which students are

to be admitted to the programme;

b. board of examiners: the board of examiners of the programme, established and appointed in

accordance with Section 7.12a of the Act;

c. component: a study unit of the programme as defined in Section 7.3 of the Act. The

course load of each component is expressed as whole credits. Every

component involves an examination;

d. credit: the unit expressing the course load of a course component pursuant to the

Act. According to the ECTS one credit equals 28 hours of studying;

e. European credit (EC): the unit expressing the course load of a course component pursuant to the

Act. According to the European Credit Transfer System one EC equals 28

hours of studying;

f. examination [tentamen]²: an evaluation of the knowledge, understanding and skills of the student in

respect of a particular component, and an assessment thereof, in accordance with Section 7.10 of the Act, by at least one examiner appointed to this

purpose by the board of examiners;

g. examiner: the person appointed by the board of examiners to conduct examinations, in

accordance with Section 7.12c of the Act;

h. final examination the interim examinations [tentamens] linked to the components of the

programme, including, where the board of examiners has so decided, an

examination in accordance with Section 7.10 (1) performed by the board

itself;

 $[examen]^2$:

^{2.} The *examen* is actually a review of the student's academic achievements to decide whether or not (s)he has completed all requirements for graduation. The Dutch term used for a test of the student's knowledge or skills is '*tentamen*'.

 Leiden University Register of Study Programmes [Leids universitair register opleidingen] register³ of the programmes offered by Leiden University, kept under supervision of the Executive Board, referred to in Section 7 of the Executive and Management Regulations;

i. level:

the level of a component according to the abstract structure as defined in the framework document of the Leiden University Register of Study Programmes;

k. practical:

practical assignment as defined in section 7.13 (2) (d) of the Act, in one of the following forms:

- the writing of a thesis;
- the writing of a paper, the design and implementation of a project, or the creation of a technological design,
- the implementation of a research assignment;
- carrying out a literature study;
- the participation in fieldwork or an excursion;
- the completion of a traineeship;
- carrying out tests and experiments;, or
- the taking part in another educational activity aimed at acquiring particular skills;

l. Study guide (prospectus):

a document containing details and binding information about the

programme;

m. student:

a person registered with Leiden University for the purpose of taking courses, and/or the sitting of examinations and the taking of examinations of the

programme;

n. the Act:

the Higher Education and Research Act [Wet op het hoger onderwijs en

wetenschappelijk onderzoek] (WHW).

o. working day:

Monday to Friday, excluding public holidays;

Other terms have the meaning given to them by the Act.

Article 1.3 Code of Conduct regarding ICT

The Code of Conduct for Teachers and Students in ICT supported Education [Gedragscode docenten en studenten binnen ICT en onderwijs]⁴ shall apply to the programme and its courses.

^{3.} The framework document *Leids universitair register opleidingen* [Leiden University Register of Study Programmes] can be found at the following website: www.onderwijs.leidenuniv.nl/onderwijsbeleid

^{4.} The Code of Conduct for Teachers and Students in ICT supported education [Gedragscode docenten en studenten binnen ICT en onderwijs] was adopted by the Executive Board on 30 June 2005 and can be found at the following website: www.regulations.leiden.edu/education-students/code-of-conduct-in-ict-supported-education.html

Chapter 2 Description of the Programme

Article 2.1 Objectives of the Programme

The programme has the following objectives:

To impart sufficient knowledge, understanding and skills as to enable the graduate to contribute independently, at an academic level and in an original manner to recognizing, coming up with and solving issues in an area of the natural sciences, to discuss this contribution with colleagues, to inform non-specialists in a clear and unambiguous manner on conclusions and considerations that form the foundation of the study, and to successfully follow a PhD programme within the discipline and its marginal areas.

In terms of structure, final qualifications and other quality marks the programme meets the provisions of "The Leiden University Register of Study Programmes".

Article 2.2 Specialisations

The programmes offers specialisations as described in the Appendix to these regulations.

Article 2.3 Achievement Levels

The following achievement levels apply with regard to the programme:

- a. theoretical and/or practical skills in more than one specialist area of the discipline such that (s)he can carry out research under overall supervision;
- b. the ability to make an independent analysis of scientific problems, analysis of relevant specialist literature, formulate verifiable hypotheses, and set up and carry out research and critical reflection on one's own research and that of others;
- c. the ability to interrelate and integrate various areas of the discipline;
- d. the ability to present clearly, verbally as well as in writing, one's own research results, and the ability to communicate with colleagues and to present his/her research results as a contribution to a congress or as (part of) a scientific publication;
- e. sufficient understanding of the social role of the natural sciences to be able to reflect upon them and in part consequently to come to an ethically sound attitude and corresponding execution of one's professional duties.

For the Master specialisations Science Based Business, Science Communication & Society and Education, the following achievement levels apply:

Science Based Business specialisation:

- a. knowledge and understanding of science- and research-driven business and initiation in business disciplines most relevant to working in this business;
- b. the ability to make a plan for a new business or an innovation project;
- c. experience with performing business activities in an existing or directed towards setting up a new company or organisation.

Science Communication & Society specialisation:

- a. knowledge and understanding of modern information and communication technology;
- b. experience in science communication;
- c. knowledge of ethical, historical and social aspects in the area of the natural sciences.

Education specialisation:

- a. all qualifications necessary for teaching all years of secondary education and technical and vocational training (for 16-18 year-olds);
- b. an approach to education/teaching taking into account the relationship between school and society and with respect for the moral values that are accepted in our multiform society.

Article 2.4 Structure of the Programme

The programme offers full-time tuition only.

Article 2.5 Study Load

The course load of the programme is 120 credits.

Article 2.6 Start of the programme; Uniform Structure of the Academic Year

The programme can start throughout the year, unless stated otherwise in the Appendix. As to taught courses, the programme is based on the uniform structure of the academic year, with the academic year being divided into semesters⁵.

Article 2.7 Final Examinations

The programme includes a final examination.

Article 2.8 Language of Instruction

In compliance with the Code of Conduct regarding Foreign Languages [Gedragscode Voertaal⁶] the language of instruction and examination in the programme is English.

The language of instruction in the master specialisations Education and Science Communication & Society is Dutch.

Students are expected to have an adequate command of the language(s) of instruction of the programme.

Article 2.9 Quality

The programme is accredited by the Accreditation Organisation of the Netherlands and Flanders (NVAO) and complies with the applicable national and international quality requirements, and with the quality standards with regard to education set out in the framework document Leiden University Register of Study Programmes.

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^{5.} The uniform structure of the academic year and the explanatory notes to the new semester structure were adopted by the Executive Board on 14 October 2004 and reviewed on 12 January 2010.

^{6.} The Code of Conduct regarding Foreign Languages [Gedragscode voertaal] was adopted by the Executive Board on 11 July 2002 and can be found at the following website: www.reglementen.leidenuniv.nl/legacy/language of instruction.pdf

Chapter 3 Curriculum

Article 3.1 Compulsory Components

- 3.1.1 The programme includes compulsory components (including the master's thesis [afstudeerverslag]). These components are listed in the Appendix to these regulations. The study load (in credits) and level have been stated for each of the components.
- 3.1.2 The electronic prospectus will include more detailed information on the content and structure of each component.

Article 3.2 Freedom of Choice

- 3.2.1 In addition to the components referred to in 3.1.1 each programme offers students to select optional components. The following rules apply:
- 3.2.2 The choice of components requires the approval of the board of examiners.
- 3.2.3 In addition to the components taught at this university optional courses may also include, subject to the approval of the board of examiners, components offered by other Dutch universities or a foreign university or another legal entity with accreditation in initial education.
- 3.2.4 A student who is enrolled for the programme can, with the permission of the most apt Board of Examiners, put together a programme consisting of components which are taught by an institution to which a final examination is attached. In granting permission, the Board of Examiners will also indicate under which programme of the institution this programme is intended to fall.⁷
- 3.2.5 A maximum of 12 EC of the entire curriculum may consist of components with a level less than 400.

Article 3.3 Practicals

3.3.1 The study guide and electronic prospectus list the components which include practicals, stating the nature and the student's workload for these practicals, and indicating whether participation in these practicals is mandatory for entry to the examination of the component. Obtaining a pass result in a practical is regarded as successfully taking an exam [tentamen] within the meaning of Article 7.10 of the Act.

The board of examiners may grant exemption from a practical; in that case, the board may or may not impose alternative requirements.

3.3.2 The appendix to these regulations states the size and study load of the master's thesis. Furthermore, the study guide states the criteria with which the thesis or the traineeship report must comply, as well as the relevant procedures, including the way in which the supervisor is appointed and a substitution is made if a supervisor is no longer able to perform his tasks as such.

Article 3.4 Registration for Courses

Participation in courses is in order of registration, with the provision that students who are registered in a programme are guaranteed access to the obligatory courses of that programme.

Article 3.5 Recording Lectures

Students are not allowed to make audio or video recordings of lectures without explicit prior permission from the relevant lecturer. Should such permission be granted, the student is only legally allowed to use the recording for his/her own use; all forms of duplication or publication of the recordings are prohibited.

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In accordance with Section 7.3d of the Act ('free programme in Academic Education').

Chapter 4 Examinations, the Final Examination and Further Education

Article 4.1 Frequency of Examinations

- 4.1.1 For each component, examinations will be held twice per academic year. If the student needs an extra opportunity in order to avoid a delay in completing the degree, a request to do so can be submitted to the board of examiners
- 4.1.2 If a component contains a practical part, students may only sit the examination as referred to in paragraph 4.1.1 if they have successfully completed the practical, unless the board of examiners provides otherwise.
- 4.1.3 If the mark for a component results from several partial marks, deviation is possible from the number of sits as referred to in 4.1.1. When applicable, this is stated in the e-prospectus.
- 4.1.4 In accordance with Section 7.13 (2) (h) of the Act, the examination dates have been included in the (electronic) study guide and/or on the website of the programme.
- 4.1.5 The student is expected to sit the examination at the first occasion after the course has ended, unless the board of examiners in individual cases decides otherwise.
- 4.1.6 Admission to a second opportunity to sit the examination can be subjected to certain conditions. These conditions are specified in the Rules and Regulations of the Board of Examiners.
- 4.1.7 In special cases, the Board of Examiners may allow for an additional resit, at the student's request.
- 4.1.8 In an academic year in which a component that has a cycle of more than one year e.g. an elective –is not taught, there is at least one opportunity to sit the examination [tentamen].
- 4.1.9 Not applicable

Article 4.2 Obligatory Order

- 4.2.1 The Rules and Regulations of the Board of Examiners specifies which components with their attendant examinations cannot be taken before the examinations of one or more other components have been successfully completed;⁸
- 4.2.2 For the components and their attendant examinations which must be completed in a given sequence, the Board of Examiners may in special cases, and upon motivated written request of the student, decide on a different sequence.

Article 4.3 Methods of Assessment and Examination Formats

- 4.3.1 The study guide and electronic prospectus states whether assessment may take place by means of either a written or an oral examination or a skills test.
- 4.3.2 In special cases, on request of the student, the board of examiners may allow the student to take the examination in a manner that deviates from the one prescribed in the study guide and the electronic prospectus.
- 4.3.3 Students with a disability may take examinations in a manner that has been adjusted to their particular disability, in order to accommodate their disability as much as possible. If necessary, the board of examiners will seek expert advice before reaching a decision.

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- 4.3.4 The examinations shall comply with the code of conduct on the language of instruction and examination [Gedragscode voertaal ⁶].
- 4.3.5 Students will be assessed on an individual basis if a component involves presentations, research, reports or other course activities that require students to work in groups.

Article 4.4 Oral Examinations

- 4.4.1 An oral examination may involve only one student at a time, unless the board of examiners has provided otherwise.
- 4.4.2 Oral examinations are public, unless the board of examiners or the examiner concerned has decided otherwise, owing to special circumstances, or unless the student objects.

Article 4.5 Rules set by the Board of Examiners

- 4.5.1 In accordance with Section 7.12b (3) of the Act, the board of examiners has set out rules the Rules and Regulations of the Board of Examiners –concerning the execution of their tasks and responsibilities and the measures they can take in this respect.
- 4.5.2 The board ensures the right of the student to appeal against decisions of the board or the examiners.
- 4.5.3 In addition, the Board of examiners is responsible for formulating a procedure for the appointment of the thesis supervisor (and a second reader /referee), as well as the procedure regarding the assessment of the master's thesis and how the responsibilities are divided between the thesis supervisor and the second reader / referee.

Article 4.6 Assessment

- 4.6.1 Immediately after the oral examination, the examiner shall inform students of their result and hand them a written notification of that result.
- 4.6.2 Within fifteen working days after the date of the examination, the examiner shall mark any written or other test and provide the graduate school office of the faculty with the information necessary to present the student with a written notification of the result of the examination.

The examiner will evaluate a practical within fifteen working days of the day on which the student took part in the final component or that he submitted a report of the work to the examiner.

The graduate school office is responsible for registration and publication of the results within 5 workingdays of the day they have received the result.

- 4.6.3 If the examiner is unable to comply with section 4.6.2, which provides that results must be submitted to the graduate school office within fifteen working days, the student shall be notified thereof within said time limit. The student shall also be informed of the relevant procedure in such cases. If necessary the date for the retake will be rescheduled in order to give the student sufficient preparation time.
- 4.6.4 The result of the examination shall be expressed as a whole or half number between 1 and 10, including both limits. The result shall not be expressed as a number between 5 and 6.
- 4.6.5The examination is considered to be successfully completed if the result is 6.0 or higher.
- 4.6.6 The examination candidate receives from the examiner or examiners appointed by the Board of Examiners a written or electronic notification of the examination result
- 4.6.7 The written or electronic notification of the examination result shall inform students of their right to view their marked examination scripts referred to in Article 4.8 below which provides for the access of students to examination scripts and of appeals procedure.

4.6.8 The Board of Examiners formulates regulations which specify the conditions under which the Board may exercise its authority as specified in Section 7.12b (3) of the Act to determine that not every examination needs to be successfully completed and/or what the conditions are under which the results of partial examinations can compensate for one another. These regulations are included in the Rules and Regulations of the Board of Examiners.

Article 4.7 Period of Validity of Results

- 4.7.1 Every examination and exemption granted has a validity period of 5 years.
- 4.7.2 The Board of Examiners may, in accordance with the guidelines it has formulated, and at the request of the examination candidate, extend the period of validity (Article 4.11 of the Rules and Regulations of the Board of Examiners).

Article 4.8 Access to Marked Examination Scripts and Evaluation

- 4.8.1 Students have the right to view their marked examination script, at their request, within a period of at least thirty days following the publication of the results of the written examination.
- 4.8.2 During the period referred to in 4.8.1, the examination questions and assignments, as well as if possible the marking criteria may be inspected.
- 4.8.3 The marked test will be evaluated with the examiner if the student so requests. An opportunity for evaluation will be announced together with the examination results.
- 4.8.4 The board of examiners is authorised to decide whether the test will be evaluated collectively or individually.
- 4.8.5 The examiner determines where and when the evaluation will take place.
- 4.8.6 Students who, due to circumstances beyond their control, are unable to attend the evaluation referred to in paragraph 4.8.5 shall be granted another opportunity for evaluation, if possible within the period referred to in 4.8.1.

Article 4.9 Exemption from Examinations and/or Practicals

At the student's request and after consultation with the examiner involved, the board of examiners may grant the student exemption from one or more examinations or practicals under the following conditions:

- The student has successfully completed, at a university or an institute of higher professional education, one of a programme's components that is similar in content and level to the component for which the student requests exemption;
- The student has demonstrated, through relevant work or professional experience, sufficient skills and knowledge in relation to the component.

Article 4.10 The Final Examination

- 4.10.1 The student is awarded a diploma by the board of examiners when he provides sufficient proof that all tests have been passed. Furthermore, the student must have earned a bachelor's degree as referred to in Article 5.1, or possess proof of admission as referred to in Article 5.2. Students must file their applications for graduation with study advisor or -coordinator.
- 4.10.2 As part of the final examination, the board of examiners is entitled to perform an additional test of the knowledge, understanding and skills of the student and assess the result.
- 4.10.3 Graduation will take place at least two times per academic year on dates set by the board of examiners.

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- 4.10.4 Graduation does not take place before the Executive Board has declared that all procedural requirements have been met. For each programme, no more than one diploma will be awarded. It is recorded on the diploma that the programme or the specialisation has been delivered by Leiden.
- 4.10.5 Pursuant to the regulation referred to in Section 7.11 (3) of the Act the student who is entitled to graduate may ask the board of examiners to postpone the event.
- 4.10.6 A supplement written in English complying with the agreed European standard format is attached to the degree certificate. The certificate also includes a translation of the certificate and a Latin certificate.

Article 4.11 The Degree

- 4.11.1 The degree of Master of Science is awarded to those who have passed the final examination of the programme.
- 4.11.2 The degree certificate states the degree awarded.

Article 4.12 Further Education

Persons awarded a master's degree are eligible to pursue a doctorate.

Chapter 5 Admission to the Programme

Section 5.1 Direct Admission

Article 5.1 Direct Admission

Requirements for direct admission to the master's programme are stipulated in the Appendix to these regulations.

Section 5.2 Admission (by or on behalf of the Faculty Board)

Article 5.2 Confirmation of Admission

5.2.1 A confirmation of admission can be issued by the Faculty Board if the student fulfils the entry requirements specified in Article 5.3 in so far as the maximum number of enrolled students as determined by the Executive Board for the programme is not exceeded.

5.2.2 The confirmation of admission must be applied for according to the rules set out in the Regulations for Admission to the Master's programmes.⁹

Article 5.3 Entry Requirements

Without prejudice to the stipulations of Article 5.2.1 regarding maximum capacity, admission will be granted to persons

- Who are in possession of qualities in the areas of knowledge, understanding and skills which should have been acquired by the end of (one of) the bachelor's programmes referred to in Article 5.1; and
- Who have obtained a bachelor's degree from a university, or who can prove that they fulfil the requirements for such a degree; and
- Who in the opinion of the Faculty Board have sufficient command of the language(s) of instruction of the programme.

Article 5.4 Deficiencies

5.4.1 Students who possess a bachelor's degree or an equivalent diploma but who nevertheless still have a deficiency of maximal 15 credits, can be admitted to the programme if it can be reasonably expected that they will be able to meet the admission requirements within a reasonable period of time.

5.4.2 Students who still have deficiencies as referred to in 5.4.1 may participate in the programme after admission, but will not be allowed to take examinations nor the tests named by the Faculty Board when granting admission to the programme.

5.4.3 For the admission referred to in paragraph 5.4.1, the Admission Board will formulate a catching up programme with examination opportunities.

5.4.4 If on the grounds of 5.4.1, a student is admitted to the programme, the tests which must be completed in order to fulfil the entry requirements do not in any way form part of the curriculum of the master's programme.

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The Regulations for Admission to Master's Programmes of Leiden University was established by the Executive Board on 27 April 2005 and modified by degree on 20 December 2005 and 6 March 2007; it can be found on the following website: www.reglementen.leidenuniv.nl/onderwijs-onderzoek/regeling-toelating-masteropleidingen.html

5.4.5 The rules of procedure applicable when exercising the authority referred to in Article 7.30a, paragraph 1, sentence 3, of the Act (the Bachelor's-before-Master's rule (*Harde Knip*) hardship clause) will be governed by the rules as set out in Article 2.5, paragraph 2, of the Regulation on Admission to Master's Programmes..

Article 5.5 Bridging Programmes

- 5.5.1 The department can compile an individual bridging programme in order to remedy deficiencies in the prior education of the candidate.
- 5.5.2 If a student is admitted to the programme under paragraph 5.4.1, tests that are taken in order to meet the admission requirements cannot be part of the curriculum of the master's programme.

Chapter 6 Student Counselling and Study Advice

Article 6.1 Student Progress Report

- 6.1.1 The Graduate School Office of the Faculty keeps records of the study results of individual students.
- 6.1.2 Throughout the year, the Graduate School Office provides each student with an electronic overview of the study results. An authorised copy of the results can be obtained on request at the Graduate School Office.
- 6.1.3 If, in the opinion of the department, the students is seriously lagging behind compared with the required study progress, the department will draw the student's attention to the possibility of support in formulating a study plan.

Article 6.2 Introduction and Student Counselling

The Graduate School provides an introduction and student counselling for all students.

Article 6.3 Supervision of the Master's Thesis

- 6.3.1 The student makes a plan for the final assignment together with the supervisor referred to in 3.3.2 This plan is based on the study load specific for this component in the appendix referred to in paragraph 3.3.2.
- 6.3.2 The plan referred to in 6.3.1 also specifies the frequency and manner of supervision.

Article 6.4 Professional Sports and other cultural or social activities

- 6.4.1 Students who play sports at a professional level are offered the opportunity to adjust their study programmes to their sporting activities wherever possible. The Graduate School follows the guidelines drawn up by the Executive Board to determine who fits into this category.
- 6.4.2 Students who contribute to cultural or social activities which in the opinion of the faculty board are similar to the activities as referred to in 6.4.1, are offered the opportunity to adjust their study programmes to their activities wherever possible.

Article 6.5 Permanent Disabilities

Where possible, students with a disability or chronic illness are offered the opportunity to adjust their study programmes in accordance with the limitations resulting from their disability or illness.

Article 6.6 Residence abroad and traineeship

For students who as a result of a stay abroad or traineeship which was approved of by the Board of Examiners may suffer from a demonstrable delay in their studies, measures will be taken to limit the delay.

Chapter 7 Transitional Provisions

Article 7.1 Provisions concerning Students Previously Enrolled in the Programme

7.1.1 For students who were newly enrolled in the programme no longer than three years prior to the date these Regulations came into force, Chapter 3 of the Course and Examination Regulations remains applicable as they were formulated at the time of first enrolment.

7.1.2 (not applicable)

7.1.3 In case components as referred to in paragraph 3.1.1 and Article 3.2 of the Course and Examination Regulations applicable pursuant to 7.1.1 are no longer on offer, the board of examiners will indicate components to replace them. If necessary, components may be indicated that are offered by another institution.

Chapter 8 Final Provisions

Article 8.1 Amendments

- 8.1.1 Amendments to these regulations are implemented by a separate order of the faculty board with the prior consent of the faculty council.
- 8.1.2 Amendments to these regulations which also apply to a particular academic year shall be implemented before the beginning of that year and published in the prescribed manner, unless earlier implementation of an amendment to the regulations is strictly necessary and in all reasonableness does not harm students' interests.
- 8.1.3 Furthermore, amendments to the regulations may not adversely affect any prior decision pertaining to students taken by the board of examiners on the basis of these regulations.

Article 8.2 Publication

The department takes care of the appropriate publication of these regulations, of the rules and guidelines set by the board of examiners, and of any amendment to these articles.

Article 8.3 Entry into Force

These regulations will enter into force on 1 September 2012.

Drawn up on July 13, 2012

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