



AALBORG UNIVERSITET

**CURRICULUM FOR THE MASTER'S
PROGRAMME (CAND.GEOM) IN
SURVEYING, PLANNING AND LAND
MANAGEMENT - 2017 - AALBORG**

MASTER OF SCIENCE (MSC) IN SURVEYING,
PLANNING AND LAND MANAGEMENT
AALBORG

Curriculum for the Master's Programme (cand.geom) in Surveying, Planning and Land Management - 2017 - Aalborg

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§ 1: PREFACE

Pursuant to Act 261 of March 18, 2015 on Universities (the University Act) with subsequent changes, the following curriculum for the Master's programme in Surveying, Planning and Land Management is stipulated. The programme also follows the Joint Programme Regulations and the Examination Policies and Procedures for The Technical Faculty of IT and Design, The Faculty of Engineering and Science, and The Faculty of Medicine.

Commencement of this curriculum is 1. September 2017 (only 1st semester).

§ 2: BASIS IN MINISTERIAL ORDERS

The Master's programme is organised in accordance with the Ministry of Higher Education and Science's Order no. 1061 of June 30, 2016 on Bachelor's and Master's Programmes at Universities (the Ministerial Order of the Study Programmes) and Ministerial Order no. 1062 of June 30, 2016 on University Examinations (the Examination Order). Further reference is made to Ministerial Order no. 258 of March 18, 2015 (the Admission Order) and Ministerial Order no. 114 of February 3, 2015 (the Grading Scale Order) with subsequent changes.

§ 3: CAMPUS

The programme is offered in Aalborg.

§ 4: FACULTY AFFILIATION

The Master's programme falls under The Technical Faculty of IT and Design, Aalborg University.

§ 5: STUDY BOARD AFFILIATION

The Master's programme falls under Study Board of Planning and Surveying

§ 6: AFFILIATION TO CORPS OF EXTERNAL EXAMINERS

The Master's programme is associated with the external examiners corps on the Surveying Programme

§ 7: ADMISSION REQUIREMENTS

Applicants with a legal claim to admission (retskrav):

- Bachelor of Science in Surveying, Planning and Land Management from Aalborg University.

All international students applying to Aalborg University must document English language qualifications comparable to an 'English B level' in the Danish upper secondary school (minimum average grade 02).

Applicants without legal claim to admission:

Students with another Bachelor degree may, upon application to the Board of Studies, be admitted following a specific academic assessment if the applicant is considered as having comparable educational prerequisites. The University can stipulate requirements concerning conducting additional exams prior to the start of study.

§ 8: THE PROGRAMME TITLE IN DANISH AND ENGLISH

The Master's programme entitles the graduate to the Danish designation Landinspektør, cand.geom. med specialisering i:

- opmåling og kortlægning *eller*
- arealforvaltning og planlægning

The English designation is: Master of Science (MSc) in Surveying, Planning and Land Management with specialisation in:

- Surveying and Mapping *or*
- Land Management

§ 9: PROGRAMME SPECIFICATIONS IN ECTS CREDITS

The Master's program is a 2-year, research-based, full-time study program. The program is set to 120 ECTS credits.

§ 10: RULES CONCERNING CREDIT TRANSFER (MERIT), INCLUDING THE POSSIBILITY FOR CHOICE OF MODULES THAT ARE PART OF ANOTHER PROGRAMME AT A UNIVERSITY IN DENMARK OR ABROAD

The Study Board can approve successfully completed (passed) programme elements from other Master's programmes in lieu of programme elements in this programme (credit transfer). The Study Board can also approve successfully completed (passed) programme elements from another Danish programme or a programme outside of Denmark at the same level in lieu of programme elements within this curriculum. Decisions on credit transfer are made by the Study Board based on an academic assessment. See the Joint Programme Regulations for the rules on credit transfer.

§ 11: EXEMPTIONS

In exceptional circumstances, the Study Board study can grant exemption from those parts of the curriculum that are not stipulated by law or ministerial order. Exemption regarding an examination applies to the immediate examination.

§ 12: RULES FOR EXAMINATIONS

The rules for examinations are stated in the Examination Policies and Procedures published by the faculty on their website.

§ 13: RULES CONCERNING WRITTEN WORK, INCLUDING THE MASTER'S THESIS

In the assessment of all written work, regardless of the language it is written in, weight is also given to the student's formulation and spelling ability, in addition to the academic content. Orthographic and grammatical correctness as well as stylistic proficiency are taken as a basis for the evaluation of language performance. Language performance must always be included as an independent dimension of the total evaluation. However, no examination can be assessed as 'Pass' on the basis of good language performance alone; similarly, an examination normally cannot be assessed as 'Fail' on the basis of poor language performance alone.

The Study Board can grant exemption from this in special cases (e.g., dyslexia or a native language other than Danish).

The Master's Thesis must include an English summary (or another foreign language: French, Spanish or German upon approval by the Study Board). If the project is written in English, the summary must be in Danish (The Study Board can grant exemption from this). The summary must be at least 1 page and not more than 2 pages (this is not included in any fixed minimum and maximum number of pages per student). The summary is included in the evaluation of the project as a whole.

§ 14: REQUIREMENTS REGARDING THE READING OF TEXTS IN A FOREIGN LANGUAGE

At programmes taught in Danish, it is assumed that the student can read academic texts in modern Danish, Norwegian, Swedish and English and use reference works, etc., in other European languages. At programmes taught in English, it is assumed that the student can read academic text and use reference works, etc., in English.

§ 15: COMPETENCE PROFILE ON THE DIPLOMA

The following competence profile will appear on the diploma:

A Candidatus graduate has the following competency profile:

A Candidatus graduate has competencies that have been acquired via a course of study that has taken place in a research environment.

A Candidatus graduate is qualified for employment on the labour market based on his or her academic discipline as well as for further research (PhD programmes). A Candidatus graduate has, compared to a Bachelor, developed his or her academic knowledge and independence so as to be able to apply scientific theory and method on an independent basis within both an academic and a professional context.

§ 16: COMPETENCE PROFILE OF THE PROGRAMME

Competence profile of the Master's program (cand.geom.) with Specialisation in Surveying and Mapping

Knowledge

- be knowledgeable about technologies and theories/methods for collecting spatial data.
- be knowledgeable about theories/methods for processing/integrating spatial data.
- be knowledgeable about theories/methods for assessing the quality of spatial data.

Skills

- master theories/methods related to collecting/processing/integrating spatial data
- be able to evaluate theories/methods related to collecting/processing/integrating spatial data.
- be able to identify problems related to collecting/processing/integrating spatial data.
- be able to assess/analyse problems related to collecting/processing/integrating spatial data.
- be able to suggest solutions to problems related to collecting/processing/integrating spatial data in consideration of various criterions (e.g. completeness, precision, resource consumption).
- be able to assess the quality of the suggested solutions.
- be able to assess the quality of spatial data coming from various sources.
- be able to communicate/discuss problems related to collecting/processing/integrating spatial data with both peers and non-specialists.
- be able to give advice regarding problems related to collecting/processing/integrating spatial data.

Competencies

- be able to master selected data collecting technologies.
- be able to master general skills required to solve typical data collecting/processing/integrating tasks.
- be able to initiate/plan/implement cross-disciplinary working relationships.
- be able to ensure his/hers further professional development.

Competence profile of the Master's program (cand.geom.) with Specialisation in Land Management

The graduate of the Master's program:

Knowledge

- Has knowledge in land management based on research and practices concerning development and regulation of property and land use, spatial development and planning, land economics and land governance.
- Has knowledge in spatial planning and governance based on state-of-the-art international research.
- Understands legal issues concerning real property and legal and economic issues concerning public intervention in the property market.
- Understands legal issues concerning the use of and public interventions of private property, based on the highest research in the field.
- Can understand and, on a scientific basis, reflect over the knowledge areas and identify scientific as well as practical problems or challenges regarding urban and rural development. Including how this relates to societal values and norms of relevance for land management.

Skills

- Excels in main theories that relate to the knowledge areas and in scientific methods and tools and general skills related to planning and management activities for urban and rural development.
- Can apply, evaluate and select among the scientific theories, methods and tools regarding planning and land management for urban and rural development - and on a scientific basis, advance new analyses and solutions
- Can communicate research-based knowledge and discuss professional and scientific problems with both peers and non-specialists concerning planning and land management for urban and rural development

Competencies

- Can apply and combine theories, methods and tools to manage work and development situations that are complex, unpredictable and require new solutions.
- Can independently initiate and implement discipline-specific and interdisciplinary cooperation and assume professional responsibility on relevant aspects of planning and land management for urban and rural development
- Can independently take responsibility for own professional development and specialisation on planning and land management for urban and rural development

§ 17: STRUCTURE AND CONTENTS OF THE PROGRAMME

The program is structured in modules and organized as a problem-based study. A module is a program element or a group of program elements, which aims to give students a set of professional skills within a fixed time frame specified in ECTS credits, and concluding with one or more examinations within specific exam periods that are defined in the curriculum.

The program is based on a combination of academic, problem-oriented and interdisciplinary approaches and organized based on the following work and evaluation methods that combine skills and reflection:

- lectures
- classroom instruction
- project work
- workshops
- exercises (individually and in groups)
- teacher feedback

By prior agreement with the study board, it is possible for students to attend modules offered at other relevant master programmes.

Completion of the Master's program

The Master's program must be completed no later than four years after it was begun.

§ 18: OVERVIEW OF THE PROGRAMME

All modules are assessed through individual grading according to the 7-point scale *or* Pass/Fail. All modules are assessed by external examination (external grading) or internal examination (internal grading or by assessment by the supervisor only).

Except the module "Property Regulation" (taught in Danish), all modules are taught in English.

1st semester is common semester for students on *both* Specialisation in Surveying and Mapping and Specialisation in Land Management

Offered as:					
Study programme: Common Semester					
Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
1 SEMESTER					
Surveying, Geoinformatics or Land Management	Project	15	7-point grading scale	Internal examination	Oral exam based on a project
Property regulation	Course	5	Passed/Not Passed	Internal examination	Written or oral exam
Managing the Use of Land	Course	5	7-point grading scale	Internal examination	Active participation and/or written assignment

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Modern Data Acquisition Methods	Course	5	Passed/Not Passed	Internal examination	Written or oral exam
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Offered as:					
Specialisation: Surveying and Mapping					
Study programme: Surveying, Planning and Land Management					
Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
2 SEMESTER					
Positioning and Mapping	Project	20	7-point grading scale	External examination	Oral exam based on a project
Statistics and Data Fusion	Course	5	Passed/Not Passed	Internal examination	Written or oral exam
Positioning and Mapping Technologies	Course	5	Passed/Not Passed	Internal examination	Written or oral exam
3 SEMESTER					
Professional Development	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
4 SEMESTER					
Master's Thesis	Project	30	7-point grading scale	External examination	Oral exam based on a project

Offered as:					
Specialisation: Land Management					
Study programme: Surveying, Planning and Land Management					
Module name	Course type	ECTS	Applied grading scale	Evaluation method	Assessment method
2 SEMESTER					
Spatial Development and Planning	Project	20	7-point grading scale	External examination	Oral exam based on a project
Spatial Planning and Governance	Course	5	Passed/Not Passed	Internal examination	Active participation and/or written assignment
Land Use Regulation and Land Economics	Course	5	Passed/Not Passed	Internal examination	Active participation and/or written assignment
3 SEMESTER					
Professional Development	Project	30	7-point grading scale	Internal examination	Oral exam based on a project
4 SEMESTER					
Master's Thesis	Project	30	7-point grading scale	External examination	Oral exam based on a project

§ 19: ADDITIONAL INFORMATION

The current version of the curriculum is published on the Board of Studies' website, including more detailed information about the programme, including exams.

All students who have not participated in Aalborg University's PBL introductory course during their Bachelor's degree must attend the introductory course "Problem-based Learning and Project Management". The introductory course must be approved before the student can participate in the project exam. For further information, please see the School of Architecture, Design and Planning's website.

§ 20: COMMENCEMENT AND TRANSITIONAL RULES

The curriculum is approved by the Dean of The Technical Faculty of IT and Design, and enters into force as of 1th of September 2017 (only 1st Semester).

Students who wish to complete their studies under the previous curriculum from 2015 must conclude their education by the summer examination period 2018 at the latest, since examinations under the previous curriculum are not offered after this time.

§ 21: AMENDMENTS TO THE CURRICULUM AND REGULATIONS

Minor editorial changes have been made in connection with the digitalisation of the curriculum.