

## GOVERNING DOCUMENT

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and Agricultural Science

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## General syllabus for the doctoral programme in the subject of:

### TECHNOLOGY

Valid as of 1 January 2013

Department to which the syllabus applies  
ENERGY AND TECHNOLOGY

Subject code  
NLTEKN00

The goals and design of the programme may vary between departments (see 4. Miscellaneous)

#### *Regulations for third-cycle (doctoral) education at SLU*

These can be found in the [Guidelines for third-cycle \(doctoral\) education](#) (reg. no SLU ua Fe.2012.40-3218) and [Admission regulations for third-cycle \(doctoral\) education at SLU](#) (reg. no. SLU ua Fe.2012.4.4-3467). These governing documents lay out rules and recommendations for *entry requirements, recruitment and admission, joint programmes leading to a double or joint degree, scope and content of the programme, planning and follow-up of the programme, procedure when a course or study programme is unsatisfactory, examination and degrees.*

General study plans for subjects within the doctoral studies can provide additional, subject-specific rules in addition to these joint rules. This document specifies the subject-specific rules for the subject technology. In other respects the third-cycle studies in this subject shall adhere to the Guidelines for third-cycle education and the Admission regulations for third-cycle education at the Swedish University of Agricultural Sciences.

#### *1. Purpose and objectives*

After completing the programme, the student should be familiar with the general tools of science as well as the research methods that are typical of the subject field technology. The purpose is to meet the qualitative targets for third-cycle studies specified in the Higher Education Ordinance, Annex 2 – Qualifications ordinance.

## 2. *Entry requirements*

Those admitted shall meet the following specific entry requirements.

The specific entry requirements are normally knowledge corresponding to a technical degree. For applicants who do not fulfil these criteria, eligibility is verified on a case-by-case basis taking into account the research task.

## 3. *Scope and content of the programme*

The programme contains two main elements: research and coursework.

### Research

While studying, the student shall conduct independent research work which is presented in a doctoral thesis corresponding to 150-180 credits. The thesis can be presented as a monograph or as a compilation thesis, of which the latter is the standard. Compilation theses are expected to include 3-5 works. All works must be of such a quality that they can be published and at least 2, one of which has the doctoral student as lead author, shall normally be accepted and/or published in well-regarded journals with referee systems. The thesis is written in English.

A licentiate degree requires academic work corresponding to 75-90 credits. 2-3 works are expected to be included in a compilation thesis. Alternatively, the thesis may be presented as a monograph. The composite papers must be of such quality that they are eligible for publication. The thesis is written in English.

### Courses

The student is required to undertake coursework which corresponds to at least **60** credits for a Degree of Doctor, and at least **30** credits for a Degree of Licentiate. These studies shall include suitable general courses as well as individually selected subject courses.

The general courses should be selected to complement the first-cycle studies and provide knowledge within the three blocks:

- Scientific methodology (e.g. general research methodology, philosophy of knowledge, ethics, information retrieval and publishing)
- Scientific methods (e.g. mathematics, statistics, modelling, measurement technology and control engineering)
- Information (e.g. teaching in higher education and research information)

Individual courses shall be selected in basic or applied parts of the subject field. These can be carried out as individual literature reviews.

## 4. *Miscellaneous*

Further information about third-cycle studies is available in SFS 2006:1053, and information about grants can be found in SFS 1995:938 as amended by 1998:81

(reprint), 1998:161 and 2006:1053. Information about third-cycle studies at SLU is available in the Admission regulations for third-cycle (doctoral) education (reg. no SLU ua 41-1482/07) with the annex to the Board's decision of 26 April 2007, reg. no SLU ua 41-1482/07, the Vice-Chancellor's decision and the guidelines for doctoral education at the Faculty of Natural Resources and Agricultural Science (reg. no SLU ua 40-1244/08). Each department to which the third-cycle subject area is linked can choose to specify requirements in addition to those in this study plan. These requirements are to be specified in an annex.

##### *5. Annexes*

There are no annexes.