



Sveriges lantbruksuniversitet
Swedish University of Agricultural Sciences

GOVERNING DOCUMENT

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General syllabus for the doctoral programme in the subject of: **FOOD SCIENCE**

Valid as of 01/01/2017

Department to which the study plan applies
MOLECULAR SCIENCES

Subject code:
NJLIVS00

The objectives and design of courses in this subject may vary between faculties (see point 4. Miscellaneous).

The subject food science ("livsmedelsvetenskap") comprises knowledge and understanding of the composition, structure, qualities and functionality of both raw materials and the finalised products. Food science also includes food technology and processing to promote healthy raw materials and food products.

[A general syllabus must indicate the following: the main content of the programme, specific entry requirements and any other regulations required. All general syllabuses must be approved by the faculty board.]

1. Programme content and scope

The programme has two main components: courses and the doctoral thesis.

Thesis work

On this programme, the student will conduct independent research work corresponding to at least 180 higher education credits (HEC) for a Degree of Doctor and at least 90 HEC for a Degree of Licentiate. The work shall be relevant to research in the field of food science.

The thesis generally has the form of a summary of manuscripts and articles published or accepted for publication, which may have been produced in collaboration with other researchers or doctoral students. The quality of the constituent papers must be such that they are deemed to meet the demands for being accepted for publication in high-quality scientific journals. The number of papers may vary, but 4 is normally given as a guideline. The thesis should be written in English to allow for the greatest possible dissemination of the research findings. In addition, seminars, workshops, conferences, study visits etc. are included as a natural part of the thesis work.

Courses

The student is required to undertake coursework, which corresponds to 45–60 HEC for a Degree of Doctor, or 25–30 HEC for a Degree of Licentiate. This must include suitable general courses as well as elective subject courses. The subject courses must be relevant for the subject food science and provide subject specialisation and/or broadening within the field.

According to the rules for doctoral education at SLU ([Regulations and forms for doctoral education | Medarbetarwebben](#)), all doctoral and licentiate degrees at SLU must include credit awarding courses of philosophy of science and research ethics at PhD-level. These courses should also cover rules on cheating and plagiarism.

2. Specific entry requirements

Those admitted must meet the following specific entry requirements.

The specific entry requirement for the subject food science is normally knowledge corresponding to at an undergraduate degree in chemistry or biology, including at least 20 credits in food science subjects, or another background suitable for the programme. The undergraduate degree must include a degree project.

3. Overall rules for doctoral education at SLU

Third-cycle (doctoral) education is regulated by the Higher Education Ordinance (SFS 1993:100) and the Ordinance for the Swedish University of Agricultural Sciences (SFS 1993:221).

The local governing documents that regulate doctoral education at SLU level can be found on the page [Regulations and forms for doctoral education](#).

The programme is organised in a way that allows doctoral students to meet the qualitative targets for third-cycle courses and programmes specified in the *Higher Education Ordinance's Appendix 2 – Qualifications Ordinance* (see appendix 1).

4. Miscellaneous

Each faculty offering the third-cycle subject can choose to specify specialisations or requirements in addition to the general syllabus. These requirements must be documented in an appendix.

5. Appendixes

Appendix 1. Higher Education Ordinance's Annex 2 – System of Qualifications

Appendix 1.

Higher Education Ordinance Appendix 2 – System of Qualifications.

Outcomes For the Degree of Doctor the third-cycle student shall

Knowledge and understanding

- *demonstrate broad knowledge and systematic understanding of the research field as well as advanced and up-to-date specialised knowledge in a limited area of this field, and*
- *demonstrate familiarity with research methodology in general and the methods of the specific field of research in particular.*

Competence and skills

- *demonstrate the capacity for scholarly analysis and synthesis as well to review and assess new and complex phenomena, issues and situations autonomously and critically*
- *demonstrate the ability to identify and formulate issues with scholarly precision critically, autonomously and creatively, and to plan and use appropriate methods to undertake research and other qualified tasks within predetermined time frames and to review and evaluate such work*
- *demonstrate through a dissertation the ability to make a significant contribution to the formation of knowledge through his or her own research;*
- *demonstrate the ability in both national and international contexts to present and discuss research and research findings authoritatively in speech and writing and in dialogue with the academic community and society in general*
- *demonstrate the ability to identify the need for further knowledge and*
- *demonstrate the capacity to contribute to social development and support the learning of others both through research and education and in some other qualified professional capacity.*

Judgement and approach

- *demonstrate intellectual autonomy and disciplinary rectitude as well as the ability to make assessments of research ethics, and*
- *demonstrate specialised insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used.*

Outcomes For a Degree of Licentiate the third-cycle student shall:

Knowledge and understanding

- *demonstrate knowledge and understanding in the field of research including current specialist knowledge in a limited area of this field as well as specialised knowledge of research methodology in general and the methods of the specific field of research in particular.*

Competence and skills

- *demonstrate the ability to identify and formulate issues with scholarly precision critically, autonomously and creatively, and to plan and use appropriate methods to undertake a limited piece of research and other qualified tasks within predetermined time frames in order to contribute to the formation of knowledge as well as to evaluate this work;*
- *demonstrate the ability in both national and international contexts to present and discuss research and research findings in speech and writing and in dialogue with the academic community and society in general, and*
- *demonstrate the proficiency required to participate autonomously in research and development work and to work autonomously in some other qualified capacity.*

Judgement and approach

- *demonstrate the ability to make assessments of ethical aspects of their own research;*
- *demonstrate insight into the possibilities and limitations of research, its role in society and the responsibility of the individual for how it is used, and*
- *demonstrate the ability to identify the personal need for further knowledge and take responsibility for their ongoing learning.*