



SLUkurs

Syllabus for Horticultural Management – Gardening and Horticultural Production (BSc)

Version 1. Is valid between autumn 2021 and spring 2022

DECISION

Programme code:

LY012

Scope:

180 ECTS

Date:

2020-09-10

Decision by:

Utbildningsnämnden

SLU Id:

SLU ua 2020.3.1.1-3507

Board responsible:

Programnämnden för utbildning inom landskap och trädgård (PN - LT)

PRIOR KNOWLEDGE AND OTHER ENTRY REQUIREMENTS

General entry requirements for first-cycle studies and

- Mathematics 2a or Mathematics 2b or Mathematics 2c
- Science Studies 2*
- Social Studies 1b or Social Studies 1a1

* Biology 1 + Physics 1a (or Physics 1b1 + 1b2) + Chemistry 1 replace Science Studies 2

or

- Mathematics B
- Science Studies B*
- Social Studies A

* Biology A + Chemistry A + Physics A replace Science Studies B

(Field-specific entry requirements A14/15 with the exception of Social Studies 1a2).

The specific entry requirements can also be met by applicants who have obtained equivalent knowledge under the current or a former Swedish national curriculum.

The requirements are also fulfilled if equivalent knowledge has been obtained by other means.

There are specific entry requirements for each course included in the programme. These are described in the course syllabus.

INTENDED LEARNING OUTCOMES

General objectives

The general objectives for first- and second-cycle courses and programmes are specified in the Swedish Higher Education Act (Chapter 1, Sections 8–9).

Objectives for a Degree in XX

In accordance with the annex to the Ordinance for the Swedish University of Agricultural Sciences, for a Degree of Bachelor of Science in Horticultural Management, the student must meet the objectives listed below.

For a Degree of Bachelor of Science in Horticultural Management, the student must have demonstrated the knowledge and skills required to work autonomously as a horticultural scientist.

Knowledge and understanding

For a Degree of Bachelor of Science in Horticultural Management, the student must have

- demonstrated knowledge of the field's disciplinary foundation, proven experience and relevant methods,
- demonstrated awareness of current research and development work, and
- demonstrate knowledge of the horticultural industry and related areas' conditions, function and interaction with the environment and society.

Competence and skills

For a Degree of Bachelor of Science in Horticultural Management, the student must have

- demonstrated the ability, within given parameters and using appropriate methods, to autonomously identify, analyse and solve problems related to the horticultural industry,
- demonstrated the ability to decide on, implement and evaluate relevant measures relating to horticultural production, markets, design, the environment and experiences,
- demonstrated the ability to design and manage production systems in the horticultural industry and related areas, with consideration for given needs and conditions, and

- demonstrated the ability to critically examine and evaluate relevant information and to present and discuss problems and solutions in dialogue with different groups.

Judgement and approach

For a Degree of Bachelor of Science in Horticultural Management, the student must have

- demonstrated the ability to make assessments of and manage issues relating to cultivation, design and business, considering the relevant scientific, societal, economic, environmental and ethical aspects, as well as being able to weigh the pros and cons of different aspects,
- demonstrated the ability to work in a team and to cooperate in groups with varied composition, and
- demonstrated the ability to identify their need for further knowledge and undertake ongoing development of their skills.

DEGREE

Degree awarded on completion of the programme

The programme Horticultural Management – Gardening and Horticultural Production (BSc) leads to a Degree of Bachelor of Science in Horticultural Management, which is a professional qualification.

Other general qualifications may be awarded, provided the requirements for them are fulfilled. See the qualification requirements and SLU's system of qualifications.

Students who fulfil the qualification requirements will be issued a degree certificate upon request. The degree certificate will specify the qualification as Bachelor of Science in Horticultural Management.

Degree requirements

A Degree of Bachelor of Science in Horticultural Management is awarded to students who have successfully completed the qualification requirements of 180 credits according to the following:

- 120 credits compulsory programme courses (G1N, G1F)
- 45 credits elective programme courses (of which at least one G2F)
- 15 credits from a degree project/independent project in horticultural science (first-cycle level degree project, G2E).

CONTENT AND OUTLINE

Programme description

The BSc in Horticultural Management – Gardening and Horticultural Production

gives students the opportunity to acquire knowledge relevant to sustainable development in the horticultural sector. Years 1 and 2 comprise 120 credits of compulsory courses, followed by 45 credits of elective courses and a first-cycle level degree project in year 3. The compulsory courses provide the necessary basic and applied scientific knowledge in horticultural science, biology, technology and business administration. Elective courses offer specialisation and in-depth studies. The elective courses are listed in the course schedule. Students may also take relevant courses outside the programme, e.g. at another university. Any courses taken outside of the programme may need to be reviewed before being accepted for credit transfer. There is also the possibility to study a semester abroad at one of SLU's partner universities. The programme has clear links to industry. Students can participate on a work experience course in which they work with problem-solving in a real-world setting. It is also possible to work with an external partner when conducting their degree project.

Key programme topics include the use of horticultural plants, the value chain from production to consumption, and the national and international horticultural market. Central programme elements comprise how companies function, the concept of quality, product development and marketing horticultural products. To be able to control plant production to a defined time, quantity and quality based on market requirements and anticipate the environmental impact on both smaller and larger companies are important skills.

Knowledge of the function of plants as biological organisms, and the way they interact with the environment and other organisms is necessary for sustainable crop production and product quality.

Students practise essential skills such as identifying problems and issues relevant to the horticultural sector, searching for and evaluating information critically as well as communicating horticultural knowledge orally and in writing to different target groups. An understanding of ethical questions related to how the horticultural sector influences biological systems and their relation to individuals, the environment and society at different levels will be discussed in relevant contexts.

In accordance with the SLU guidelines for equal opportunities, a well-functioning study environment is characterised by openness, equality and inclusiveness. This promotes a climate that draws upon the diverse backgrounds, lives, and competence of students and staff.

The language of instruction is Swedish, however some elective courses may be taught in English.

Courses in the programme

Main field of study:

Horticultural science (TD)
 Biology (BI)
 Chemistry (KE)
 Business administration (FÖ)
 Agricultural science (LB)
 Mathematical statistics (MS)
 Statistics (ST)
 Technology (TN)
 Landscape architecture (LK)

Year 1 (compulsory courses)

Botany, 7.5 credits (BI/TD, G1N)
 Basic Chemistry, 7.5 credits (KE/TD, G1N)
 Crop Management and Quality of Horticultural Products, 15 credits (TD/BI, G1N)
 Technology, Soil and Climate for Horticultural Production, 15 credits (TN/TD, G1N)
 The Horticultural Market, 15 credits (FÖ/TD, G1N)

Year 2 (compulsory courses)

Plant Protection, Basic Course, 7.5 credits (BI/TD, G1N)
 Basic Course in Plant Physiology, 7.5 credits (BI/TD, G1F)
 The Horticultural Firm, 15 credits (FÖ/TD, G1N)
 Crop Management in Horticultural Business, 15 credits (BI/TD, G1F)
 Horticultural Production Systems, 15 credits (BI/TD, G1F)

Year 3 (elective courses, compulsory first-cycle level degree project)

Production and Processing of Fruits, Berries and Grapevine, 15 credits (BI/TD, G2F)
 Basic Ecology, 7.5 credits (BI, G1F)
 Grundläggande statistik med tillämpningar inom naturvetenskap (MS/ST, G1F)
 Basic and Applied Ecology, 15 credits (BI, G1F)
 Advanced Plant and Site Knowledge, 15 credits (LK/TD, G2F)
 Healthcare Gardens, 15 credits (LK/TD, G2F)
 Project Course in Horticulture, 15 credits (TD/BI, G2F)
 Hydroponic Systems in Horticultural Production and Public Environment, 15 credits (BI/TD, G2F)
 Plant Breeding and Plant Physiology, 15 credits (BI/TD, G2F)
 Postharvest – Biology and Technology, 15 credits (BI/TD, G2F)
 Sustainable Production Systems in a Global Perspective, 15 credits (BI/LB, G2F)
 Plant Chemistry and Biochemistry, 15 credits (KE/BI, G1F)
 Urban Agriculture and Social Interaction, 15 credits (LK/TD, G2F)

Plant Protection and Microbiology, 15 credits (BI/TD, G2F)

Horticultural Practice, 15 credits (TD, GXX)

Independent Project in Horticultural Science, 15 credits (TD, G2E)

The courses offered may change during the programme. Decisions on the courses offered are taken well in advance of the next academic year.

Each course on the programme has its own syllabus that describes the course content and other specifics. Detailed information on when the courses are offered is available on the SLU student web.

TRANSITIONAL REGULATIONS AND OTHER REGULATIONS

Transitional regulations

If courses are permanently cancelled, students can take available programme courses instead of the required compulsory courses, however each individual case will be assessed for crediting.

Students admitted before 1 January 2021 have the right to complete their studies in order to be awarded a Higher Education Diploma in Horticultural Science, 120 credits, according to previous regulations up to and including December 2025. Students admitted before 1 January 2021 who fulfil the qualification requirements are entitled to be awarded a Degree of Bachelor of Science in Horticultural Science, 180 credits, provided they have not previously been awarded a Higher Education Diploma in Horticultural Science, 120 credits.

Other rules

The learning outcomes for design on the BSc in Horticultural Management – Gardening and Horticultural Production relate to the production of successful solutions for the design of both indoor and outdoor garden environments.

OTHER INFORMATION

General regulations for first- and second-cycle courses and programmes

For more information on semester dates, examination and credit transfer, see the Regulations for education at Bachelor's and Master's level available on the SLU student web.

Possibilities for further studies

Students who complete the Horticultural Management – Gardening and Horticultural Production (BSc) and are awarded a degree have the opportunity to continue their studies at second-cycle level.

Students who continue on to the Master's programme in horticultural science may fulfil the requirements for a Degree of Master of Science in Horticulture, 300 credits.

The outcomes for a Degree of Master of Science in Horticulture are defined in the Ordinance for the Swedish University of Agricultural Sciences. The requirements for a Degree of Master of Science in Horticulture are defined in SLU's system of qualifications.