1. Confirmation
The syllabus was confirmed by Faculty of Science Board 2007-02-07 and the latest revisioned 2012-02-16 by Study programmes board, Faculty of Science. The revisioned syllabys is effective from 2012-02-16.

Board:
Department: Department of Biology

2. Programme description
The programme aims to provide students with the opportunity to acquire theoretical and practical second-cycle knowledge and competence within the subject area of Biology. The students should be well prepared for continuing third-cycle studies and/or possess subject-specific competence combined with practical skills that make the students highly competitive on the labour market in the relevant professional fields.

3. Learning outcomes
Based on the learning outcomes stated in the Higher Education Ordinance 1993:100 (amend. 2006:1053) appendix 2, for a degree of Master of Science in Biology, students must

- demonstrate good knowledge, understanding and problem-solving abilities that mean considerable advancement to and/or broadening of previous studies in higher education, as well as insight into current research and development work;
- be able to integrate knowledge, handle complexity, independently formulate new questions and participate in creating new knowledge and development, as well as solving advanced problems;
• be able to apply their knowledge, understanding and problem-solving ability in new or unfamiliar environments;
• be able to use and convey knowledge within their area and to participate freely in exchanges of opinion, also in international contexts;
• be able to, within their area of knowledge, scientifically test hypotheses, based on incomplete or limited information, with regard to the relevant scientific, societal and ethical issues;
• demonstrate understanding for other countries cultures and circumstances and the global context in relation to the area of knowledge, and have the skills and knowledge necessary for professional activity that is primarily self-supervised and independent and/or for continuing studies that lead to a third-cycle qualification;
• demonstrate knowledge of and insight into issues of equality and diversity in science and in the global community.

Additionally, on completion of the programme, students shall
• demonstrate detailed knowledge and understanding of scientific issues and theories in the field of Biology;
• be able to apply this knowledge to different areas of the field of biological knowledge and research, as well as to relevant issues in society and the surrounding world;
• demonstrate excellent knowledge of one or several areas of biological research;
• demonstrate knowledge of and be familiar with the most important biological working methods and their applications;
• have experience of independent work using some of these methods and be able to critically evaluate, assess and compare the results;
• be able to search for and evaluate information from different sources;
• be able to independently plan and critically evaluate experiment construction and test planning;
• be able to document, report and present scientific research and results based on a scientific method of approach;
• be able to present and discuss areas of biological research, as well as general scientific issues, with both specialists and laymen;
• have the knowledge and laboratory experience to be able to continue with third-cycle studies and professional activities within subject areas in the field of Biology.

4. Course information
The programme covers 120 higher education credits with at least 90 higher education credits in Biology. Teaching is carried out in the form of courses, primarily modules worth 15 higher education credits. The courses will be organised in recommended specialisations as regards various professional fields.

• Of the courses, at least 45 higher education credits must be chosen from among the second-cycle courses in Biology (see appendix).

• First-cycle courses comprising no more than 30 higher education credits may be included.

• During the programme there are compulsory preparatory courses in professional activities and research comprising 15 higher education credits,
• Admission requirements for the final degree project comprise, in addition to the compulsory preparatory courses in professional activities and research methodology, at least three (45 higher education credits) second-cycle courses.

• The degree project may comprise 30–60 higher education credits. This may be carried out as part of a research group in Biology or externally, e.g. at another faculty or in industry. The student shall independently carry out a research task as part of the degree project. The student shall, when working on their degree project, formulate and solve problems, draw conclusions and place their results in an additional subject-specific context, e.g. an area of scientific issue or relevant area of biological application, as well as write a scientific report and a summary for popular science.

5. Examination tasks

Degrees

Master of Science (120 credits)
(Naturvetenskaplig masterexamen)

The requirements for the degree of Master are regulated in the Higher Education Ordinance 1993:100 (amend. 2006:1053) appendix 2 and in the local degree rules of 18 December 2006 at LundUniversity.

The programme covers 120 higher education credits including a degree project of at least 30 higher education credits. A student who has passed the programme and who has been awarded a degree of Bachelor (180 credits) fulfils the requirements of the degree of Master (Two Years).

Degree titles are:
The Swedish name is Naturvetenskaplig masterexamen
Huvudområde: Biologi.
The English translation is Master of Science (Two Years) in Biology.

The Swedish name is Naturvetenskaplig masterexamen
Huvudområde: Biologi med fördjupning i ekologi.
The English translation is Master of Science in Biology specialising in Ecology.

The Swedish name is Naturvetenskaplig masterexamen
Huvudområde: Biologi med fördjupning i marinbiologi.
The English translation is Master of Science in Biology specialising in Marine Biology.

6. Admission requirements and selection criteria

Entry requirements

Selection criteria
7. Transitional provisions

8. Other information

9. Specializations

<table>
<thead>
<tr>
<th>Code</th>
<th>Namn</th>
<th>Credits</th>
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<tbody>
<tr>
<td>EKNA</td>
<td>Ekologi: Naturvård och bevarandebiologi</td>
<td>120.0</td>
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<tr>
<td>EKOL</td>
<td>Ekologi</td>
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<td>ALLM</td>
<td>Allmän inriktning</td>
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<td>EKLI</td>
<td>Ekologi: Akvatisk ekologi</td>
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<tr>
<td>EKZO</td>
<td>Ekologi: Zooekologi</td>
<td>120.0</td>
</tr>
<tr>
<td>EKVS</td>
<td>Ekologi: Växtekologi och systematik</td>
<td>120.0</td>
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This is a translation of the course syllabus approved in Swedish