Course Specifications
Valid as from the academic year 2016-2017

Course size
(nominal values; actual values may depend on programme)
Credits 4.0
Study time 120 h
Contact hrs 36.0 h

Course offerings and teaching methods in academic year 2018-2019
A (semester 2) Dutch lecture 36.25 h

Lecturers in academic year 2018-2019
Reheul, Dirk LA21 lecturer-in-charge
De Smet, Stefaan LA22 co-lecturer

Offered in the following programmes in 2018-2019

<table>
<thead>
<tr>
<th>Programme</th>
<th>crds</th>
<th>offering</th>
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<tbody>
<tr>
<td>Bachelor of Science in Bioscience Engineering (main subject Agricultural Sciences)</td>
<td>4</td>
<td>A</td>
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<tr>
<td>Bachelor of Science in Bioscience Engineering (main subject Cell and Gene Biotechnology)</td>
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<tr>
<td>Bachelor of Science in Bioscience Engineering (main subject Chemistry and Food Technology)</td>
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<tr>
<td>Bachelor of Science in Bioscience Engineering (main subject Environmental Technology)</td>
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<tr>
<td>Bachelor of Science in Bioscience Engineering (main subject Land and Forest Management)</td>
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<tr>
<td>Joint Section Bachelor of Science in Bio-Engineering</td>
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Teaching languages
Dutch

Keywords
Sustainable development and action, indicators, eco-efficiency, biodiversity

Position of the course
The course fits into the development of a sustainable life-style, with the emphasis on the development of sustainable biologically oriented (production) systems

Contents
Sustainable development
Sustainable actions
Sustainable agriculture and agroecosystems
Biodiversity
Efficiency and eco-efficiency
Crops for renewable energy production
Case studies: sustainable and innovative primary production in an ethical framework

Initial competences

Final competences
1 Students know the significance, the importance and the different aspects of sustainable development.

2 Students know the principles and the practicality of methods to measure and assess sustainability in biologically-oriented production systems.

3 Students know how to act sustainably.

4 Students can reflect on sustainable development in a well-founded way.

5 Students can confront innovations in production systems with the principles of
sustainable development.

6 Students can confront their own lifestyle and attitudes with the principles of sustainability.

Conditions for credit contract
Access to this course unit via a credit contract is determined after successful competences assessment.

Conditions for exam contract
This course unit cannot be taken via an exam contract.

Teaching methods
Lecture, microteaching

Learning materials and price
A syllabus is available. Cost: 20 EUR

References
Relevant scientific literature and research results.

Course content-related study coaching
The knowledge transfer aims at a creative knowledge acquisition stimulated by challenging questions.

Evaluation methods
End-of-term evaluation

Examination methods in case of periodic evaluation during the first examination period
Written examination

Examination methods in case of periodic evaluation during the second examination period
Written examination

Examination methods in case of permanent evaluation

Possibilities of retake in case of permanent evaluation
not applicable

Calculation of the examination mark

(Approved)