Course Specifications
Valid in the academic year 2019-2020

Big Ideas in Natural Sciences (C003571)

Course size
(nominal values; actual values may depend on programme)
Credits 4.0  Study time 120 h  Contact hrs 40.0 h

Course offerings and teaching methods in academic year 2019-2020
A (semester 2)  Dutch
lecture 15.0 h
self-reliant study activities 5.0 h
seminar 5.0 h
microteaching 10.0 h
practicum 5.0 h

Lecturers in academic year 2019-2020
Strubbe, Katrien
WE06 lecturer-in-charge

Offered in the following programmes in 2019-2020
Bachelor of Science in Chemistry
4 A

Teaching languages
Dutch

Keywords
Natural sciences, Big ideas, integration

Position of the course
In this course, “natural sciences” in secondary education is discussed, together with specific teaching methods.

Contents
1 Natural sciences in secondary education
2 Big ideas in sciences
3 Big ideas in a Flemisch context
4 Curriculum for natural sciences for different target groups

Initial competences

Final competences
1 Be able to situate the course “natural sciences” in secondary education in Flanders.
2 To know the principles of teaching according to “Big ideas” and be able to apply these principles on a basic level.
3 To have insight into the reasons why the content of the course "natural sciences" differs according to the target group.

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, practicum, seminar, self-reliant study activities

(Approved)
Learning materials and price
  Learning material on Ufora

References
  References are communicated by means of the ELO.

Course content-related study coaching

Evaluation methods
  end-of-term evaluation and continuous assessment

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

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

Examination methods in case of permanent evaluation
  Participation, assignment

Possibilities of retake in case of permanent evaluation
  Examination during the second examination period is possible

Calculation of the examination mark