Course Specifications
Valid as from the academic year 2017-2018

Course size (nominal values; actual values may depend on programme)

<table>
<thead>
<tr>
<th>Credits</th>
<th>Study time</th>
<th>Contact hrs</th>
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<tbody>
<tr>
<td>15.0</td>
<td>405 h</td>
<td>230.0 h</td>
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Course offerings and teaching methods in academic year 2017-2018

A (semester 2) Dutch

- lecture 20.0 h
- bachelor’s 210.0 h

Lecturers in academic year 2017-2018

Madder, Annemieke WE07 lecturer-in-charge

Offered in the following programmes in 2017-2018

Bachelor of Science in Chemistry 15 A

Teaching languages

- Dutch

Keywords

- Research training

Position of the course

To stimulate a research attitude by performing a research training in one or more of the departments of the faculty of sciences and by attending seminars. The student hereby chooses to specialize in an interdisciplinary direction. In collaboration with the responsible for this interdisciplinary bachelorproject it will be attempted to conceive a project in accordance with the specific areas of interest of the student. The student conducts coached research work. He learns to consult the scientific literature independently, to work it out experimentally, and to report and communicate orally and in writing, in Dutch as well as in English.

Contents

* A supervised project is performed in one or several departments of the Faculty of Sciences (not chemistry), Pharmaceutical Sciences or (Biosience) Engineering.
  - To gather specific information about the project by consulting the relevant literature
  - To elaborate a working scheme in consultation with the project managers
  - Practical elaboration of the project
  - Critical evaluation of the experimental results
  - Communication and discussion with the members of the research group, in Dutch as well as in English.
  - Written report and oral presentation with questioning

Initial competences

Having obtained 105 credits in the chemistry education. Having followed a minimum of 32 hours of practical courses in each of the three disciplines, being analytical, anorganic or fysical chemistry and organic chemistry. Being available for the bachelor project for at least 5 half days per week.

Final competences

1. To show scientific attitudes such as creativity, decision-making, critical sense, exactitude, keeping a lab journal, independent work, working in group.
2. To show technical skills for the implementation of chemical experiments.
3. To carry out research in chemical literature for a concrete problem.
4. To communicate in writing and orally concerning chemical subjects with chemists, in Dutch and in English.
5. To apply the security aspects inherent to chemical work.

Conditions for credit contract

(Approved)
Conditions for exam contract

This course unit cannot be taken via a credit contract
This course unit cannot be taken via an exam contract

Teaching methods
Lecture, bachelor's dissertation

Learning materials and price
Articles from scientific literature
Price: nil

References
Articles to be searched in scientific journals

Course content-related study coaching
Interactive sessions with the members of the research group.

Evaluation methods
continuous assessment

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

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

Examination methods in case of permanent evaluation
Oral examination, assignment, job performance assessment, report

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

Extra information on the examination methods
Written report and oral presentation with questioning.

Calculation of the examination mark
Non-periodical evaluation. For the non-periodical evaluation is there for 2/5 of the marks (oral presentation, written report and poster presentation) a second examination chance in the second examination period, for the remaining 3/5 of the marks the results from the first examination period are again taken into account in the second examination period. Evaluation of the capacity of mastering the basic concepts of chemistry.