

## Chemical Laboratory Skills (C002686)

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

Credits 4.0 Study time 120 h Contact hrs 62.5 h

Course offerings and teaching methods in academic year 2018-2019

A (year)	Dutch	work placement	30.0 h
		lecture	8.75 h
		microteaching	23.75 h

Lecturers in academic year 2018-2019

Vanhoe, Hans	WE06	staff member
Strubbe, Katrien	WE06	lecturer-in-charge

Offered in the following programmes in 2018-2019

<a href="#">Master of Science in Chemistry</a>	crdts	offering
	4	A

Teaching languages

Dutch

Keywords

Supervision of practical exercises in chemistry, communication on chemistry, organisation and planning, safety

Position of the course

This course aims at teaching students how to prepare, organise and supervise chemical practical exercises. The main competences that are being developed are in the field of interaction, working as a team, to drive groups and individuals, planning, organising, communication.

Contents

Theory

- prepare, plan and organise practical exercises and/or seminars
- environment and safety
- efficient use of didactic material

Exercises:

- the students are incorporated in the guidance and evaluation of practical exercises in general chemistry in first bachelor courses (6 times). The student has to prepare and supervise these exercises and has to give an introduction lesson.
- microteaching: the student gives a limited number of seminars to 1st bachelor students

Initial competences

Possess the diploma of Bachelor of science in chemistry

Final competences

- 1 To know the regulation concerning working in a chemical lab.
- 2 To know several didactic ways to teach chemistry and apply them.
- 3 Be aware of the importance of safety and prevention.
- 4 To apply the safety rules in a chemical lab.
- 5 To show professional behaviour, characterised by passion, accuracy and self-employment.
- 6 To plan practical exercises and seminars in chemistry.
- 7 To show responsibility and engagement in the guidance of chemical lab sessions.
- 8 Working in a team.
- 9 To teach knowledge of chemistry to (future) chemists and non-chemists.

#### 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

Guided self-study, lecture, microteaching, work placement

#### Learning materials and price

Courses in chemistry from the bachelor programme, practicum notes, environmental, health and safety guidelines, UGent.

#### References

#### Course content-related study coaching

The practical sessions are under guidance of a mentor, who follows the student during his training and who gives feedback  
Possibility for feedback after the lectures, the seminars and the practical exercises and after making an appointment

#### 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, written examination with multiple choice questions

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

Written examination with open questions, written examination with multiple choice questions

#### Examination methods in case of permanent evaluation

Skills test, 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

Periodic evaluation: written test concerning the contents of the practical chemistry sessions, the seminars and the first bachelor course in general chemistry (practical aspects)

Non-periodic evaluation: evaluation of knowledge and competences, demonstrated during the internship, evaluations of the reports

For the second chance, the non-periodic evaluation is replaced by means of a compensating activity in-between the first and the second examination period, which consists of giving a lecture/seminar in chemistry. The student who doesn't have marks for the periodic evaluation, can not pass for this course.

#### Calculation of the examination mark

periodic evaluation (30 %), non-periodic evaluation (70 %)