



Faculty of Health, Science and Technology
Chemistry

Syllabus

Chemistry in Society

Course Code:	KEGB20
Course Title:	Chemistry in Society <i>Kemi i samhället</i>
Credits:	7.5
Degree Level:	Undergraduate level
Progressive Specialisation:	First cycle, has less than 60 credits in first-cycle course/s as entry requirements (G1F)

Major Field of Study:
KEA (Chemistry)

Course Approval

The syllabus was approved by the Faculty of Health, Science and Technology 2016-02-19, and is valid from the Autumn semester 2016 at Karlstad University.

Prerequisites

Attended courses totalling 30 ECTS cr in Chemistry, Chemical Engineering, Environment and Energy Systems, Physics, Engineering Physics, Biology, Environmental Science or Public Health Science, with 15 ECTS cr completed.

Learning Outcomes

The aim of the course is that students acquire basic knowledge of the role of Chemistry in society, based on an analysis of the debate in the media, which is related to the research perspective of Chemistry, with special emphasis on intentionally and unintentionally spread misconceptions of the role of chemistry in society and on how the role of chemistry can be addressed in different professional roles.

Upon completion of the course, students should be able to:

1. analyse, evaluate and summarise current national texts and debate contributions related to chemistry or the environment in the daily press, social media, TV and radio from the perspectives of chemistry or ethics
2. reflect on how texts related to chemistry or the environment can be understood by different groups and professional roles
3. plan and conduct a minor independent project in a chosen problem area
4. report the project in writing within given time limits
5. present and defend the independent project using current IC technology
6. actively participate in group discussions on fellow students' independent projects.

Content

Instruction is in the form of seminars on the aims of the course based on a selection of texts and debate

contributions, and possibly video recordings.

The course comprises two parts, which are assessed separately: the seminar unit and an independent project.

The seminar unit (4 ECTS cr) deals with the learning outcomes 1-3. The unit requires students to participate actively in group discussions, which are outlined in short group reports (PMs). Attendance is mandatory, but can take place at a distance if the technological means are available.

The independent project (3.5 ECTS cr) deals with the learning outcomes 3-6. The independent project is reported in an individual essay, presented and discussed in a group seminar. The presentation should make use of ICT. Attendance at the final group seminar is mandatory.

Reading List

See separate document.

Examination

Assessment of the seminar unit is continuous and based on group discussions and the reports (PMs), submitted jointly by the group.

Assessment of the independent project is in the form of an oral and written presentation of the project. Attendance and active participation are mandatory. Assessment is individual and all examination components are considered in final assessment.

Grades

One of the grades Fail (U), Pass (G), or Distinction (VG) is awarded in the examination of the course.

Quality Assurance

Follow-up relating to learning conditions and goal-fulfilment takes place both during and upon completion of the course in order to ensure continuous improvement. Course evaluation is partly based on student views and experiences obtained in accordance with current regulations and partly on other data and documentation. Students will be informed of the result of the evaluation and of any measures to be taken.

Course Certificate

A course certificate will be provided upon request.

Additional information

The local regulations for studies at the Bachelor and Master levels at Karlstad University stipulate the obligations and rights of students and staff.

Examination according to the requirements of this syllabus can be undergone one year after being replaced with another syllabus. The possibility to be examined according to the requirements of the terminated course is provided on two occasions during the first academic year that the course is no longer offered and once in the second year.