



DEPARTMENT OF CHEMISTRY AND MOLECULAR BIOLOGY

KER260 Dermatochemistry and Contact Allergy, 7.5 credits

Dermatokemi och kontaktallergi, 7,5 högskolepoäng

First Cycle

Confirmation

This course syllabus was confirmed by Department of Chemistry and Molecular Biology on 2017-09-25 and was last revised on 2024-03-08 to be valid from 2024-09-02, autumn semester of 2024.

Field of education: Science 100%

Department: Department of Chemistry and Molecular Biology

Position in the educational system

Course is included on level 45-90 credits for Degree of Bachelor to apply partly as optional course in Bachelor of Science in Pharmacy Programme. It can also be given as a freestanding course.

The course can be part of the following programmes: 1) Bachelor of Science Programme in Medicinal Chemistry (N1LMK), 2) Bachelor's Programme in Pharmacy/Dispensing Pharmacists (N1FAR) and 3) Bachelor of Science Programme in Chemistry (N1KEM)

Main field of studies

Chemistry

Pharmacy

Specialization

G2F, First cycle, has at least 60 credits in first-cycle course/s as entry requirements

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Entry requirements

For entry requirements to course are required that Bachelor of Science in Pharmacy Programme's first 120 credits or the equivalent courses are completed.

Learning outcomes

On successful completion of the course the student will be able to:

Knowledge and understanding

- at a general level describe skin's structure, function and immunology
- explain basic mechanisms of skin exposure
- account content in common of skin products and topical/cutaneous drugs as well as methods to study skin uptake and sensitization

Competence and skills

- identify reactive substances on the basis of their chemical structures
- search after and compile information around skin products/skin exposure.
- counter statements regarding skin products/skin exposure with objective and scientifically based facts

Judgement and approach

- consider complex relationships regarding skin exposure as well as different actors' interests and incentive current skin relevant products
- critically reflect on skin products content and function in perspective of sustainable development

The course is sustainability-related, which means that at least one of the learning outcomes clearly shows that the course content meets at least one of the University of Gothenburg's confirmed sustainability criteria.

Course content

Course aim to give students basic knowledge and understanding in subject dermatology chemistry. Course is interdisciplinary and contents include:

- introduction to skin's structure, function and immunology, as well as contact allergy
- basic structure- activity relationship as well as photochemistry
- critical review of skin products and topical/cutaneous drugs
- run-through of methods for studies skin exposure
- risk analysis and prevention

Form of teaching

Teaching include lectures, seminars as well as project work both individually and in groups.

Language of instruction: English and Swedish

Course is given about principal rule in Swedish but can give completely or partly in English if circumstances requires it.

Assessment

Passing the course requires

- participation on lectures (at least 80%)
- active participation on compulsory seminars
- passed result of project work both individually and in groups
- passed on written examination

If a student, who has failed the same examined component twice, wishes to change examiner before the next examination, a written application shall be sent to the department responsible for the course and shall be granted unless there are special reasons to the contrary (Chapter 6, Section 22 of Higher Education Ordinance).

In cases where a course has been discontinued or has undergone major changes, the student shall normally be guaranteed at least three examination occasions (including the ordinary examination) during a period of at least one year from the last time the course was given.

Grades

The grading scale comprises: Pass with Distinction (VG), Pass (G) and Fail (U).

- For Pass (G), passed achievement in all the components of course is required.
- To pass with distinction (Pass with distinction) is required, in addition to passed level, pass with distinction achievement the written examination.

Regarding application of the ECTS scale for grade please see decision 28/05/2007, diary nr G 8 1976/07.

Course evaluation

Course is evaluated at the end of the course via a final follow-up seminar (not compulsory) as well as a digital course evaluation on the virtual learning environment of university. Result from evaluation is used as support to refinement of course. Results and completed course changes are communicated to students via virtual learning environment as well as at course introduction the following course occasion.