



**Karolinska  
Institutet**

Course syllabus for

## **Contact Lenses 2, 15 credits**

Kontaktologi 2, 15 hp

This course syllabus is valid from autumn 2021.

Please note that the course syllabus is available in the following versions:

Autumn2021 , [Autumn2022](#) , [Autumn2023](#) , [Autumn2024](#)

Course code	1OP081
Course name	Contact Lenses 2
Credits	15 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Optometry
Level	G2 - First cycle 2
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Clinical Neuroscience
Decided by	Utbildningsnämnden CNS
Decision date	2021-04-14
Revised by	Education committee CNS
Last revision	2021-06-08
Course syllabus valid from	Autumn 2021

## **Specific entry requirements**

Passed results of at least 55 credits from the Optometry programme's semester 1 and 2 and at least 45 credits from semester 3 and 4.

Students who have failed their VIL (clinical training opportunity) after demonstrating serious deficiencies in understanding, skill, or professional attitude, and done this to the degree that client or patient safety or client/ patient/ employer trust for the healthcare have been jeopardised, will qualify for a new VIL opportunity only after completion of an individual action plan.

## **Objectives**

After the course, the student should be able to

- 1) identify and list contact lens materials
- 2) describe maintenance, cleaning and handling of soft and rigid lenses
- 3) ascertain the needs of and fit any type of soft lenses
- 4) ascertain the needs of and fit any type of rigid lenses
- 5) perform a complete fitting of any contact lens, which implicates the ability to apply and analyse results from pre fitting measurements

In addition to the above the student should, in a level-suited optometry-, care- and scientific perspective, be able to

- 6) show high ability to search, collect and evaluate information at a scientific level and critically discuss phenomenas, issues and situations
- 7) demonstrate the ability to follow the knowledge development and identify her need of additional knowledge acquisition to continuously develop her competence
- 8) show high ability to interpret scientific articles, critically review and reflect upon the significance of the results, as well as reflect upon new scientific data in relation to previously published data
- 9) show ability to formulate scientific text in writing.

Aim 6-9 should be seen in relation to the document "Vetenskaplig strimma Optikerprogrammet" (Scientific Streak of the Optometry Programme).

## Content

The course aims at providing knowledge of different contact lens types, indications and contra indications for wearing contact lenses, fitting contact lenses and different contact lens accessories. This knowledge should enable the student to fit contact lenses as correction for various types of visual defects and in preventive treatment, give patient instructions and make follow-up checks after contact lens fittings. Further, the course covers contact lens materials, contact lens optics, principles of contact lens fitting, patient examination, ordination and patient instruction, contact lenses when treating eye diseases, complications in wearing contact lenses, contact lenses and microbiology.

In addition to this the course is part of the teaching of general scientific knowledge within the program. In relation to teaching of general scientific knowledge, the students continue to broaden their knowledge related to the scientific base of optometry, science and proven experience and scientific communication. They also develop their knowledge and understanding, skills and abilities, their judgement, scientific thought and attitude, in relation to optometry and a lifelong learning. The teaching of general scientific knowledge is described in a separate document.

The course stretches over the Optometry programme's semester 5 and 6 and is divided into to the following five modules:

### **Clinical work 1, 6.5 hp**

Grading scale: GU

The module includes VIL, portfolio and formative assessment of clinical proficiencies and patient care.

### **Scientific development 1, 1.0 hp**

Grading scale: GU

The module includes assignments in KI's virtual learning environment, the scientific streak and written assignments.

### **Clinical work 2, 2.0 hp**

Grading scale: GU

The module includes VIL, portfolio and formative assessment of clinical proficiencies and patient care and case examination.

### **Theoretical understanding, 5.0 hp**

Grading scale: VU

The module includes theoretical understanding and renewal of the topic-specific contents of the course.

## Scientific development 2, 0.5 hp

Grading scale: GU

The module includes assignments in KI's virtual learning environment, the scientific streak and written assignments.

## Teaching methods

The course includes self-studies, demonstrations, test, laboratory sessions, theoretical overviews (e.g. lectures, seminars, flipped classroom, case methods), practical/ clinical exercises (VIL), portfolio and written assignments. The students are given a possibility to train practical skills but must take a great responsibility themselves.

## Examination

The course is examined in the following way:

### *Module 1, Clinical work 1*

- a) continuous examination of clinical proficiencies and patient care in connection with VIL (Fail/Pass)
- b) compulsory portfolio according to instructions
- c) compulsory seminars and demonstrations as per schedule

The module is given the grade Fail or Pass. The grade Pass requires Pass on examination assignment a) and fulfillment of compulsory course elements.

### *Module 2, Scientific development 1*

- a) compulsory assignments in KI's virtual learning environment
- b) written assignments (Fail/Pass)
- c) compulsory seminars and demonstrations as per schedule, a part of the scientific streak of the programme

The module is given the grade Fail or Pass. The grade Pass requires Pass on all written assignments b) and fulfillment of compulsory course elements.

### *Module 3, Clinical work 2*

- a) continuous examination of clinical proficiencies and patient care in connection with VIL (Fail/Pass)
- b) compulsory portfolio according to instructions
- c) case examination (Fail/Pass)
- d) compulsory seminars and demonstrations as per schedule

The module is given the grade Fail or Pass. The grade Pass requires Pass on examination assignment a) and fulfillment of compulsory course elements.

### *Module 4, Theoretical understanding*

- a) written examination (Fail/Pass/Pass with distinction)

Re-examination may take place orally.

- b) compulsory seminars and demonstrations as per schedule

The module is given the grade Fail, Pass or Pass with distinction. The grade Pass requires Pass on written examination, and fulfillment of compulsory course elements. Pass with distinction requires Pass with distinction on written examination, and fulfillment of compulsory course elements.

### *Module 5, Scientific development 2*

- a) compulsory assignments in KI's virtual learning environment
- b) written assignments (Fail/Pass)
- c) compulsory seminars and demonstrations as per schedule, a part of the scientific streak of the programme

The module is given the grade Fail or Pass. The grade Pass requires Pass on all written assignments b)

and fulfillment of compulsory course elements.

#### *Course grade*

The entire course is given the grade Fail (U), Pass (G) or Pass with distinction (VG).

The grade Pass on the entire course requires Pass on all modules 1-5. Pass with distinction requires Pass on module 1, 2, 3 and 5, and Pass with distinction on module 4.

#### *Absence from or unfulfillment of compulsory course element*

The examiner decides whether, and if so how, absence from or unfulfillment of compulsory course elements can be made up for. Study results cannot be reported until the student has participated in or fulfilled compulsory course elements, or compensated for any absence/ failure to fulfill in accordance with instructions from the examiner. Absence from or unfulfillment of a compulsory course element may imply that the student can not retake the element until the next time the course is offered.

#### *Limitation of the number of practical test or training sessions*

Students who do not pass a regular examination are entitled to re-sit the examination on five more occasions. If the student has carried out six failed tests, no further examination opportunity is given. Each occasion the student participates in the same test counts as an examination. In case a student is registered for an examination but does not attend, this is not regarded as an examination. To be valid for judgement, the examination must be submitted at the given time, or the student will be referred to the next examination occasion.

Regarding VIL, the number of times a student has the right to participate/go through the course and be assessed on the same is limited to two (2) times.

#### *Guidelines in case of failure of VIL*

The examiner may, with immediate effect, interrupt a student's clinical placement (or equivalent) if the student demonstrates such serious deficiencies in knowledge, skills or attitude that patient safety or patient confidence in healthcare is at risk. If a clinical placement is interrupted in this way the student is deemed to have failed that element and to have used up one clinical placement opportunity. In such cases, an individual action plan should be set up stating which activities and tests are required before the student is qualified for a new clinical placement on the course.

#### *Possibility of exception from the course syllabus' regulations on examination*

If there are special grounds, or a need for adaptation for a student with a disability, the examiner may decide to deviate from the syllabus's regulations on the examination form, the number of examination opportunities, the possibility of supplementation or exemptions from the compulsory section/s of the course etc. Content and learning outcomes as well as the level of expected knowledge, skills and attitudes may not be changed, removed or reduced.

## **Transitional provisions**

If the course is cancelled or goes through substantial changes, information about interim regulations will be stated here.

## **Other directives**

Course evaluation takes place in accordance with KI's local guidelines. Compilation of the students' answers in course questionnaires and the course coordinator's analysis of these are published on KI's public course web.

Teaching in English may occur.

## **Literature and other teaching aids**

### **Mandatory literature**

*Bennett, Edward*

**Clinical Manual Of Contact Lenses**

Lippincott Williams And Wilkins.UK.20081225,  
ISBN:9780781778299

[Library search](#)

**Contact lenses**

*Phillips, Anthony J. q (Anthony John); Speedwell, Lynne*

5th ed. : Edinburgh ; a New York : Butterworth-Heinemann, 2007 - xvi, 665 p.

ISBN:0750688181 LIBRIS-ID:10439031

[Library search](#)

**Reference literature**

*Gasson, Andrew; Morris, Judith*

**The contact lens manual : a practical guide to fitting**

3. ed. : London : Butterworth-Heinemann, 2003 - 450 p.

ISBN:0-7506-5548-8 (pbk.) LIBRIS-ID:8947219

[Library search](#)

**Manual of contact lens prescribing and fitting : with CD-ROM**

*Hom, Milton M.; Bruce, Adrian S.*

3. ed. : St. Louis : Butterworth-Heinemann Elsevier, cop. 2006 - xvii, 749 s.

ISBN:0-7506-7517-9 LIBRIS-ID:10099341

[Library search](#)

*Bennett, Edward*

**Manual of Gas Permeable Contact Lenses**

Butterworth Heinemann, 2004

ISBN:0-7506-4912-7

[Library search](#)

*Efron, Nathan*

**Contact lens complications**

2. [completely rev. and updated ] ed. : Edinburgh ; b Butterworth-Heinemann, c 2004 :  
Butterworth-Heinemann, 2004 - xxxi, 256 p.

ISBN:0-7506-5534-8 LIBRIS-ID:9654988

[Library search](#)

*Sweeney, D.q (Deborah)*

**Silicone hydrogels : continuous wear contact lenses**

2nd ed. : Edinburgh : Butterworth-Heinemann, 2004. - 332 p.

ISBN:0-7506-8779-7 LIBRIS-ID:9485236

[Library search](#)

*Veys, Jane; Meyler, John; Davies, Ian*

**Essential contact lens practice**

Oxford : Butterworth-Heinemann, 2002 - 160 s.

ISBN:0-7506-4912-7 (pbk) LIBRIS-ID:5574027

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