



**Karolinska  
Institutet**

Course syllabus for

## **Contact lenses, 15 credits**

Kontaktlinser, 15 hp

This course has been cancelled, for further information see Transitional provisions in the last version of the syllabus.

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

Autumn2009 , Autumn2011 , Autumn2013

Course code	1OP022
Course name	Contact lenses
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	Programnämnden för Optikerprogrammet
Decision date	2009-03-18
Revised by	Education committee CNS
Last revision	2020-04-01
Course syllabus valid from	Autumn 2013

## **Specific entry requirements**

Passed results of at least 55 higher education credits from The Optometry program semester 1 and 2 and at least 45 higher education credits from semester 3 and 4.

## **Objectives**

After the course, the student should be able to:

- 1) Identify and list contact lens materials
- 2) Describe design and manufacturing processes
- 3) Describe maintenance, cleaning and handling of soft and rigid lenses
- 4) Analyse the needs for soft lenses, and be able to fit these
- 5) Analyse the needs for rigid lenses, and be able to fit these
- 6) Apply the knowledge from the above mentioned aims in order to a external patient with lenses according to his/her needs.

And that the student in relation to general science and science based medicine, should be able to show:  
show:

- 7) large ability to follow the development of new knowledge
- 8) good knowledge of the academic basis of the field and knowledge of current research and development and knowledge of the relationship between scholarship and best practice,
- 9) large ability to identify his needs of additional knowledge and to continuously develop his skills
- 10) good understanding about the role of knowledge in society.
- 11) ability to identify his needs of additional knowledge and to develop his skills.

Aim 7-11 should be seen in relation to the document "Vetenskaplig strimma Optikerprogrammet".

## Content

The course intends to give knowledge of different contact lens types, indications or contraindications for wearing contact lenses, fitting of contact lenses and different contact lens accessories. This knowledge should be the basis for being able to fit contact lenses for

various types of ametropias, give patient instructions and do after-care.

The course includes general contact lens science including e.g. manufacturing processes for contact lenses, contact lens materials, contact lens optics, principles of contact lens fitting, patient examination and patient instructions. Furthermore, the course also includes special contact lens topics, e.g., contact lenses when treating eye diseases, complications from wearing contact lenses, contact lenses and microbiology, knowledge to set-up and run a contact lens clinic.

And that the student in relation to general science and science based medicine and optometry, should be able to show: - how he/she can continue to specialize within the area of contact lenses based on scientific knowledge and to communicate in a scientific manner. The student will also develop his knowledge and understanding, his skills and abilities his judgement and scientific thought and attitudes in relation to optometry and lifelong learning. The teaching related to general science and scientific abilities is described in a separate document.

The course is divided into three (3) parts.  
with 10.5 credits during semester 5, and 4.5 credits during semester 6.

### Clinical work, 6.0 hp

Grading scale: VU

Part 1 includes implementation and submission of tasks and attendance at compulsory clinical work.

### Theoretical understanding, 4.5 hp

Grading scale: VU

Part 2 includes theoretical understanding.

### Clinic, 4.5 hp

Grading scale: VU

Part 3 includes clinical work of fitting contact lenses.

## Teaching methods

The course comprises self-study, demonstrations, laboratory sessions, theoretical overviews (in the form of lectures, seminars, Case methods, practical exercises), study visits 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 against the following aims and in the following ways:

Part 1, Clinical work, examine all aims. Compulsory participation applies at demonstrations, seminars, labs, external patients and clinical placement (in case of absence measures to re-do should be discussed with the course director). The part is examined by tasks being submitted and passed (see separate list of assignments). The part is graded according to the scale Failed/Passed.

Part 2, Theoretical understanding, examine all aims. Examined with Written/Oral examination. The part is graded according to the scale Failed/Passed/pass with credit. For admission to the examination in Theoretical understanding it is required that supplementary qualification for the part Clinical Work is carried out.

Part 3, Clinic, examine aim 1-6. Examined by practical test in contact lens fitting, assessment and handling (see separate list for detailed description of the practical tests), and attendance at contact lens fittings. The part is graded according to the scale Failed/Passed.

The overall course mark is graded according to the scale Failed/Passed/pass with credit. To obtain the mark Passed one must obtain Passed in all parts. To pass with distinction it is required to get the mark Passed in part 1 and 3, and pass with credit in part 2.

Criteria for assessing the practical tests of the course are established in separate documents.

Students that do not pass the first examination are given five more chances to be examined. If the student has carried out six failed examinations/tests no further chances will be offered.

## Transitional provisions

The course has been cancelled and was offered for the last time in the fall semester of 2013. Last examination according to this syllabus will be provided the fall semester of 2021 for students who have not completed the course.

## Other directives

Course evaluation will be carried out in accordance with the guidelines established by the Board of Education.

## Literature and other teaching aids

*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](#)

*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

[Library search](#)

*Östlund, Kurt*

**Kontaktologi : lärobok i elementär och fördjupad kontaktlinsteknik och angränsande ämnen**

Stockholm : [Förf.], 1980 - x, [1], 345 s., 18 pl.-s.

ISBN:91-7260-391-7 (inb.) LIBRIS-ID:7629066

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