



**Karolinska
Institutet**

Course syllabus for

Contact Lenses, 15 credits

Kontaktlinser, 15 hp

This course syllabus is valid from autumn 2014.

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

Autumn2014 , [Autumn2015](#)

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|----------------------------|--|
| Course code | 1OP063 |
| 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 | Fail (U), pass (G) or pass with distinction (VG) |
| Department | Department of Clinical Neuroscience |
| Decided by | Programnämnd 8 |
| Decision date | 2013-05-07 |
| Course syllabus valid from | Autumn 2014 |

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:

- Identify and list contact lens materials
- Describe design and manufacturing processes
- Describe maintenance, cleaning and handling of soft and stable lenses
- Analyse the needs for soft lenses, and be able to fit these
- Analyse the needs for rigid lenses, and be able to fit these
- Apply their knowledge and be able to fit any patient with contact lenses.

Related to science in general the student should be able to show:

- 1) ability to search and evaluate knowledge at the scientific level
- 2) ability to follow the knowledge development
- 3) good knowledge of the disciplinary foundation of the field and knowledge of current research and

development and knowledge of the relationship between scholarship and best practice and the relationship importance for the profession exercise,

4) large ability to identify his need of additional knowledge and that continuous develop his skills

5) good understanding about the knowledge role in the society and if the responsibility of people for how it is used.

6) ability to identify his need of additional knowledge and to develop his skills.

Aim 1-6 should be seen in relation to the document "Vetenskaplig strimma Optikerprogrammet".

Content

The course aims at providing knowledge of different contact lens types, indications and contraindications for wearing contact lenses, fitting contact lenses and different contact lens accessories. This knowledge should enable the student to be able to fit contact lenses as correction for various types of visual defects, give patient instructions and make follow-up checks after contact lens fittings.

The course covers:

- General contact lens knowledge including, e.g., manufacturing processes for contact lenses, contact lens materials, contact lens optics, principles of contact lens fitting, patient examination and patient instruction.
- Special contact lens knowledge including, e.g., contact lenses when treating eye diseases, complications in wearing contact lenses, contact lenses and microbiology, to build and run a contact lens clinic.

In addition to this the course is part of the general scientific education within the program. In connection with this the students will continue to specialize within scholarship scholarship and best practice and scientific communication. They will also develop his knowledge and understanding, his skills and abilities his judgement and his scientific thought- and attitude in relation to optometry and a lifelong learning. The teaching in general scientific knowledge is described in a separate document.

The course is divided into three (3) parts of which 10.5 credits are studied during semester 5, and 4.5 credits during semester 6 at the Study Programme in Optometry.

Clinical work, 6 hp Part 1 includes implemented and submission of tasks and attendance at compulsory clinical work.

Theoretical understanding, 4.5 hp Part 2 includes theoretical understanding and renewal of the topic-specific contents of the course.

Clinic, 4.5 hp Part 3 includes clinical work with to fit contact lenses on patient.

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 be examined against the following aims and on the following way:

Part 1 examines all aims. Compulsory participation applies at demonstrations, seminars, labs, external patients and placement (in case of absence, measures are discussed with 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 Fail/Pass.

Part 2 examines all aims. The part is examined with written/oral test. The part is graded according to the scale Fail/Pass/Pass with distinction. For admission to the examination of this part, it is required that possible supplementary qualification for part 1 is carried out.

Part 3 examines aim 1-6. be examined through a 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 on patient. The part is graded according to the scale Fail/Pass.

The whole course is graded according to the scale Fail/Pass/Pass with distinction. For a Pass grade in the course, a Pass grade is required for all its parts. For a Pass with distinction, a Pass grade in parts 1 and 3, and Pass with distinction in part 2 are required.

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

A student who fails the regular examination has the right to participate at additional five examinations. If the student fails six examinations/test there will be no additional examination. As an examination, the times that the student has participated the same test are counted. Submission of blank exam is counted as an examination. Examination to which the student has registered but not participated in is not counted as an examination.

Transitional provisions

If the course is closed down or undergoes major changes, students who have not completed the course are given the possibility, during four semesters from the date when the student first registered in the course, to be examined under the then current syllabus. After four semesters, the student is examined under the new syllabus.

Other directives

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

The course may not be included in higher education qualification at the same time with the overview and passed course, whose contents completely or partly corresponds to the course content. The following course is (partly) overlapping: *1OP022, Contact lenses*, 15 credits.

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

[Library search](#)