



**Karolinska
Institutet**

Course syllabus for

Refraction 2, 6 credits

Optimetrisk refraktion 2, 6 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:

Autumn2008 , Autumn2009 , Autumn2010

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|----------------------------|---|
| Course code | 1OP013 |
| Course name | Refraction 2 |
| Credits | 6 credits |
| Form of Education | Higher Education, study regulation 2007 |
| Main field of study | Optometry |
| Level | G1 - First cycle 1 |
| Grading scale | Pass with distinction, Pass, Fail |
| Department | Department of Clinical Neuroscience |
| Decided by | Programnämnden för Optikerprogrammet |
| Decision date | 2008-04-23 |
| Revised by | Education committee CNS |
| Last revision | 2010-05-20 |
| Course syllabus valid from | Autumn 2010 |

Specific entry requirements

Passed results of at least 45 credits from the Study Programme in Optometry, semester 1 and 2.

Objectives

After the course, the student should be able to:

- 1) list, describe and analyse different physiological aspects on visual defects
- 2) describe and apply methods for measurement of ocular vergence and be able to analyse the results in relation to other measurements,
- 3) analyse research results in relation to different optometric case types
- 4) describe and handle the role of the optometrist as referring practitioner within the health care
- 5) describe, apply and analyse the results from optometric screening.

Content

The course contains the following parts: physiological aspects on visual defects, vergence

measurements, recipe/referrals, patient communication including reception and screening methods.

The course is divided into four parts:

Mandatory attendance, 1 hp Compulsory attendance includes attendance at compulsory demonstrations, test, laboratory sessions, seminars, study visits and at practical/clinical exercises.

Theoretical understanding, 2 hp Including theoretical understanding and renewal of the topic-specific contents of the course. **Clinical work, 2 hp** Include ability to refract and do other measurements by use of the phoropter. **Assignments, 1 hp** Includes submission of e.g. log book and for the course compulsory assignments. See separately document for criteria at practical test.

Teaching methods

The course includes self-study, demonstrations, laboratory sessions, theoretical overviews (in the form of lectures, seminars, Case methods, practical exercises) and written assignments. The students are given possibility to train practical skills but must take large own responsibility.

Examination

The examination comprises:

- 1) Compulsory attendance.
- 2) Written/Oral examination. Examine the aims 1 up to 5.
- 3) Practical test refraction in phoropter. Examine the aims 2 and 3.
- 4) Written assignments. Examines the aims 2.3 and 5.

In this part Compulsory attendance is required attendance at demonstrations, test, laboratory sessions, seminars, study visits and at practical/clinical exercises. In case of absence, measures with course director are discussed.

The part is graded according to the scale failed/Passed.

The part Theoretical understanding is examined with written/oral the examinations. The part is graded according to the scale failed/Passed/pass with credit. For admission to the examination in Theoretical understanding is required that possibly supplementary qualification for the part Compulsory attendance are implemented and that the part written assignment is submitted.

The part Clinical work is examined through a practical refraction test. The part is graded according to the scale failed/Accepted.

The part Written assignments are required submission of too the course compulsory assignments. The part is graded according to the scale failed/Accepted.

All course is graded according to the scale failed/Passed/pass with credit. A Pass grade requires a Pass in all parts. To pass with credit is required passed in part 1, 3 and 4 and pass with credit in part 2.

At failed results, possibility for re-examination is given. 6 occasions for a re-examination in all parts are given total.

Transitional provisions

In the case the course is closed down or go through larger changes be given students who have not completed the course possibility to, during four semesters from the occasion the student was then registered first in the course be examined according to the course syllabus that applied then. After four semesters, the student is examined under the new syllabus.

Other directives

Course evaluation will be carried out according to the guidelines that are established by the Board of Higher Education.

The course is based on knowledge acquired in earlier courses on the program.

Literature and other teaching aids

Clinical procedures in primary eye care

Elliott, David B.

3rd ed. : Edinburgh ;a New York : Elsevier/Butterworth Heinemann, 2007 - xii, 342 p.

ISBN:978-0-7506-8896-3 LIBRIS-ID:11008167

[Library search](#)

Evans, Bruce J. W.; Pickwell, David.t Binocular vision anomalies

Pickwell's binocular vision anomalies

5. ed. /b Bruce J.W. Evans : Edinburgh ;a New York : Elsevier Butterworth Heinemann, 2007 - 454 s.

ISBN:978-0-7506-8897-0 LIBRIS-ID:10659509

[Library search](#)

Grosvenor, Theodore P

Primary care optometry

5th ed. : St. Louis : Butterworth-Heinemann/Elsevier, 2007 - 510 p.

ISBN:978-0-7506-7575-6

[Library search](#)

Millodot, Michel

Dictionary of optometry and visual science

7. ed. : Oxford : Butterworth-Heinemann, 2009 - 409 p

ISBN:978-0-7020-2958-5

[Library search](#)

Rabbetts, Ronald B.

Clinical visual Optics

4.ed. : Edinburgh : Elsevier/Butterworth Heinemann, 2007 - 470 p

ISBN:9780750688741

[Library search](#)