



**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

|                            |                                         |
|----------------------------|-----------------------------------------|
| 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              | 2020-04-01                              |
| 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, 1.0 hp**

Grading scale: VU

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

## **Theoretical understanding, 2.0 hp**

Grading scale: VU

Including theoretical understanding and renewal of the topic-specific contents of the course.

## **Clinical work, 2.0 hp**

Grading scale: VU

Include ability to refract and do other measurements by use of the phoropter.

## **Assignments, 1.0 hp**

Grading scale: VU

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

The course has been cancelled and was offered for the last time in the fall semester of 2012. 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 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](#)