



**Karolinska  
Institutet**

Course syllabus for

## **Pharmacology, 3 credits**

Farmakologi, 3 hp

This course syllabus is valid from autumn 2023.

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

[Autumn2008](#) , [Autumn2011](#) , [Autumn2015](#) , [Autumn2021](#) , [Autumn2023](#)

Course code	1OP016
Course name	Pharmacology
Credits	3 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	GX - First cycle
Grading scale	Pass with distinction, Pass, Fail
Department	Department of Physiology and Pharmacology
Decided by	Programnämnden för Optikerprogrammet
Decision date	2008-03-19
Revised by	Education committee CNS
Last revision	2023-03-22
Course syllabus valid from	Autumn 2023

## **Specific entry requirements**

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

## **Objectives**

After the course, the student should

1. have general knowledge of what a drug is, how drugs can be administered, what drugs do to the body, what the body does to drugs, and how drugs are metabolised and eliminated
2. have general knowledge of neurotransmission in the central and peripheral nervous system and how drugs can interact with this
3. have theoretical knowledge and certain practical experience of how certain drugs may influence the functions of the eye
4. have good theoretical knowledge on the treatment of glaucoma
5. have general knowledge of antibiotics and anti-inflammatory drugs, and knowledge how to treat inflammation and infection in the eye.

## **Content**

Lectures on general pharmacology, receptor pharmacology and neurotransmission, lectures on pharmacological treatment of allergies and infections, glaucoma. A theoretic laboratory session where the students explore the effects of various pharmaceuticals in the eyes and a group exercise with enhancing questions around lectures.

## Teaching methods

Plenary lectures, group exercise, laboratory session, examination.

## Examination

The course is examined in the following way:

1) written exam, is graded U (Fail), G (Pass) or VG (Pass with distinction)

Re-examination may be oral.

b) attendance in compulsory parts according to schedule

The course is graded U, G or VG.

The grade G requires G on the written exam, as well as fulfillment of compulsory course elements.

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

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.

### *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' 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 skills, knowledge 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 according to KI's local guidelines. Students are informed of the results and any measures taken on the course website.

## Literature and other teaching aids

### **Rang and Dale's Pharmacology**

*Ritter, James; Flower, R. J.; Henderson, Graeme; Loke, Yoon Kong; Rang, Humphrey Peter; Dale, M. Maureen*

Ninth edition : Amsterdam : Elsevier, 2019 - 789 pages

ISBN:9780702074486 LIBRIS-ID:bl06m44b809mw1mz

[Library search](#)