



**Karolinska
Institutet**

Course syllabus for

Pharmacology and Pathology 1, 7.5 credits

Farmakologi och sjukdomslära 1, 7.5 hp

This course syllabus is valid from autumn 2014.

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

[Autumn2012](#) , [Autumn2014](#) , [Autumn2015](#) , [Autumn2017](#) , [Autumn2020](#)

Course code	2DS005
Course name	Pharmacology and Pathology 1
Credits	7.5 credits
Form of Education	Higher Education, study regulation 2007
Main field of study	Not applicable
Level	AV - Second cycle
Grading scale	Pass, Fail
Department	Department of Laboratory Medicine
Decided by	Programnämnden 9
Decision date	2012-09-26
Revised by	Programme Committee 9
Last revision	2014-04-10
Course syllabus valid from	Autumn 2014

Specific entry requirements

Qualification as a nurse certified by the National Board of Health and Welfare

Objectives

On completion of the course, the student should be able to understand and apply general pharmacological principles and the legislation regulating the use of drugs.

This course should, together with Pharmacology and pathology part 2, lead to qualification requirements for a specialist nurse to apply for prescription right of drugs for patients according to the Swedish National Board of Health and Welfare's Regulation (2001:16) of qualification requirements in the prescription of drugs

Part 1: General pharmacology, 4.5 higher education credits

On completion of the part, the student should be able to understand and apply pharmacodynamic and pharmacokinetic principles related to:

- origin of effects and side effects of drugs
- pharmaceutical form and administration methods
- age, sex and genetic variability, and environmental factors

- pregnancy and breast feeding
- relation between dose, concentration and the effect of drugs
- origin of adverse drug reactions, interactions and problems related to omitting drugs

Part 2: Drug-related legal framework, 3 higher education credits

A student should, on completion of the part, be able to analyse and apply:

- Pharmacy law (1992:859) and Pharmacy regulation (2006:272), and related regulations and general guidelines
- LVFSF 2001:12 The Medical Products Agency's regulations of security assurance of drugs
- The regulations and general guidelines of the Swedish National Board of Health and Welfare (SOSFS 2000:1) of drug management in the health care
- Regulation (SOSFS 2001:16) of qualification requirements for nurses in the prescription of drugs
- The regulations of the Medical Products Agency (LVFS 1997:10) of the prescription and distribution of drug etc

Student should also be able to:

- describe and understand principles of clinical drug trials

Content

The course consists of two parts:

General pharmacology, 4.5 hp The main contents of the part focus on pharmacodynamic respective pharmacokinetic principles. **Drug-related legal framework, 3 hp** The main contents of the part consist of laws and regulations concerning drugs and drug management, including the nurse's drug prescription.

Teaching methods

The course is IT-based. The teaching is based on a problem-oriented and collaborative approach to learning in which the tasks provide opportunities for the student to take active responsibility for their learning. The used teaching methods are individual study assignments, work in groups, virtual discussions and seminars and lectures.

Examination

Part 1: All the outcomes are examined through a written examination.

Part 2:

- Pharmacy law and Drug legislation and related regulations and general guidelines are examined by an individual written assignment.
- Other outcomes are examined at seminars. In case of absence from seminars, a written complementary assignment should be submitted for approval according to the course director's instructions.

For a Pass in the course, the grade Pass is required in all parts.

Students who do not pass a regular examination are entitled to re-sit the examination on five more occasions. Students without approved results after three examinations can be offered to retake the course or parts of it once more; subject to availability. If the student has failed six examinations/tests, no additional examination is given. Each occasion the student participates in the same test counts as an examination. Submission of a blank exam paper is regarded as an examination. In case a student is registered for an examination but does not attend, this is not regarded as an examination

Other directives

Course evaluation takes place in accordance with the guidelines established by the Board of Education.

Literature and other teaching aids

FASS

senaste uppl. : Läkemedelsinformation AB,

URL: www.fass.se

Aarbakke, Jarle; Simonsen, Terje

Illustrerad farmakologi 1 : Principer och tillämpningar

2. uppl. : Natur & Kultur, 2011

ISBN:91-27-12206-9 (inb.) LIBRIS-ID:12069102

[Library search](#)

Läkemedelsboken.

Stockholm : Läkemedelsverket, 2011 - PDF-fil (1269 s.)

LIBRIS-ID:12199366

URL: [Online via Läkemedelsverket](#)

Författningshandbok för personal inom hälso- och sjukvården. Författningshandbok 2011 för personal inom hälso- och sjukvård

Raadu, Gunnel

42. uppl. : Stockholm : Liber, 2011 - 824 s.

ISBN:91-47-10359-0 LIBRIS-ID:12072073

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