

Course syllabus for

Epidemiological Methods for Studying Determinants of Health, 7.5 credits

Epidemiologiska metoder för att studera sjukdomars bestämningsfaktorer, 7.5 hp This course syllabus is valid from spring 2020.

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

Spring2020, Spring2021, Spring2022, Spring2024

Course code 4FH086

Course name Epidemiological Methods for Studying Determinants of Health

Credits 7.5 credits

Form of Education Higher Education, study regulation 2007

Main field of study Public Health Sciences
Level AV - Second cycle

Grading scale Fail (U), pass (G) or pass with distinction (VG)

Department Institute of Environmental Medicine

Decided by Utbildningsnämnden PHS

Decision date 2018-10-09

Revised by Education committee PHS

Last revision 2019-10-16 Course syllabus valid from Spring 2020

Specific entry requirements

A Bachelor's degree or a professional degree equivalent to a Swedish Bachelor's degree of at least 180 credits in public health science, healthcare or other relevant social sciences subject area. And proficiency in English equivalent to English B/English 6.

Objectives

On completion of the course, the student should be able to:

- formulate principles of various types of common epidemiological study designs, and describe their strengths and weaknesses,
- calculate and interpret measures on disease occurence and relationships, and describe how a specific measure is influenced by the study design,
- describe theoretical models for causality and discuss principles of causal mechanisms
- identify and explain various types of sources of errors in epidemiological studies,
- explain and discuss epidemiological concepts including validity and precision related to different Page 1 of 3

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epidemiological study designs,

• draw conclusions from epidemiological scientific articles and summarise and review these critically based on study design, results, validity and precision.

Content

The course focuses on epidemiological theory and practice. It contains principles of design, analysis and interpretation of epidemiological studies. The course introduces the concept of causality, concepts related to study basis, measures on disease occurence and measures on relationships, effect modification, common designs for epidemiological studies (cohort studies, case control studies, cross-section studies) and the importance of various types of sources of errors.

Teaching methods

The course focuses on active learning i.e. to turn knowledge into practice and critical reflection. Different strategies for learning will be used such as lectures, seminars, group discussions and various types of group work with selected themes.

Seminars and group discussions are mandatory. An individual task with feedback at different time points will also be an important method for the students to apply the knowledge they have gained at the course. The task will be part of the examination of the course.

Examination

To pass on the course the student should show that the expected learning outcomes have been achieved. Two examinations are used. One individual assignment that the student presents both written and oral. The student shall also be opponent to another student's presentation. These two parts are graded with Fail/Pass.

A written exam, graded with Fail/Pass/Pass with distinction. To pass the course, pass on both the individual assignment as well as the written exam must be acquired. To pass with distinction, pass on the individual exam as well as pass with distinction on the written exam is required.

Compulsory participation

The course director assesses if and how absence from compulsory parts can be compensated. Before the student has participated in compulsory parts or compensated absence in accordance with the course director's instructions the student's course results will not be reported to LADOK. Absence from a compulsory part may result in the student having to wait to compensate until the next time the course is given.

Limited number of examinations

Students who have not passed the regular examination are entitled to participate in five more examinations. If the student has failed six examinations/tests, no additional examination or new admission is provided.

The number of times that the student has participated in one and the same examination is regarded as an examination session. Submission of blank exam is regarded as an examination session. An examination for which the student registered but not participated in, will not be counted as an 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's 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 abilities may not be changed, removed or reduced.

Transitional provisions

Examination will be provided during a time of two years after a possible cancellation of the course. Examination can take place according to an earlier literature list during a time of one year after the date when a major renewal of the literature list has been made.

Other directives

Course evaluation is carried out according to the guidelines that are established by The Committee for Higher Education.

The course is given in English.

Literature and other teaching aids

Norell, Staffan

Workbook of epidemiology

New York ;a Oxford : Oxford University Press, 1995 - x, 317 s.

ISBN:0-19-507490-4 (inb.) LIBRIS-ID:4611326

Library search

Gordis, Leon

Epidemiology

Fifth edition. : - xv, 392 pages

ISBN:9781455737338 (pbk.: alk. paper) LIBRIS-ID:16006705

Library search