



Food and Nutrition Epidemiology (I000196)

Cursusomvang (nominale waarden; effectieve waarden kunnen verschillen per opleiding)

Studiepunten 5.0 Studietijd 135 u Contacturen 60.0 u

Aanbodssessies en werkvormen in academiejaar 2018-2019

A (semester 2)	Engels	begeleide zelfstudie	5.0 u
		werkcollege: geleide oefeningen	10.0 u
		zelfstandig werk	5.0 u
		groepswork	15.0 u
		hoorcollege	25.0 u

Lesgevers in academiejaar 2018-2019

Kolsteren, Patrick	LA23	Verantwoordelijk lesgever
Lachat, Carl	LA23	Medelesgever

Aangeboden in onderstaande opleidingen in 2018-2019

	stptn	aanbodssessie
Master of Science in Nutrition and Rural Development (afstudeerrichting Human Nutrition)	5	A
Master of Science in de bio-ingenieurswetenschappen: levensmiddelenwetenschappen en voeding	5	A
Master of Science in Nutrition and Rural Development	5	A
Uitwisselingsprogramma bio-ingenieurswetenschappen: Food Science and Nutrition (niveau master-na-bachelor)	5	A

Onderwijstalen

Engels

Trefwoorden

Epidemiology, food intake, food safety surveillance, evidence base

Situering

This course is a basic course that introduces common concepts of epidemiology to understand the relationship between nutrition and food intake and occurrence of diseases. The course aims at understanding different research tools with a particular emphasis on their relation to evidence base. The course also gives an overview of the different methodologies to estimate food intake.

Inhoud

This course has 5 modules:

Module 1

What is evidence base?

Basic concepts and applications of epidemiology

Practical 1: Systematically searching for information using PubMed and selecting papers. Setting up a field survey and calculating a sample size.

Module 2

Diagnosis

Epidemiological measures of frequency of diseases

Epidemiological measures of association and impact

Practical 2: Measures of association

Module 3

Common research designs used in epidemiology I

Food intake study designs

Sampling and sample size calculation

Practical 3: Sampling and sample size calculation

Practical 3: Analyse data of a food intake study

Module 4

Common research designs used in epidemiology II

Validity and reliability of screening and diagnostic tests

Practical 4: Making a questionnaire, getting info from a 24 hr recall, data entry and analysis

Module 5

Surveillance of food safety and analysis of an outbreak

Practical 5: Outbreak analysis : a case study

Begincompetenties

Having followed applied statistics in semester 1 or equivalent course in former study programme - Basic knowledge of statistics

Eindcompetenties

- 1 The participant can define a public health nutrition problem and identify solutions.
- 2 The participant can define a food intake study and analyse food intake data.
- 3 The participant evaluates critically research results

- 4 The student can define measures of association, risk and their statistical limits.

- 5 The student can set up an outbreak investigation

Creditcontractvoorwaarde

Toelating tot dit opleidingsonderdeel via creditcontract is mogelijk mits gunstige beoordeling van de competenties

Examencontractvoorwaarde

Dit opleidingsonderdeel kan niet via examencontract gevolgd worden

Didactische werkvormen

Begeleide zelfstudie, groepswerk, hoorcollege, zelfstandig werk, werkcollege: geleide oefeningen

Toelichtingen bij de didactische werkvormen

Seminars: between 8-10 seminars will be organised where student present a critical review of a recent article on a nutrition subject. Care will be taken that the articles document different research methodologies or tools. The selection of the papers is based on an individual assignment to define a research question and find and select relevant papers.

Ex cathedra classes are alternated with individual exercises in class, group work to set up a survey and individual preparations.

Leermateriaal

Course material is provided for every session including: an overview of the session, a list of learning objectives and the core text.

Slides and relevant up-to-date articles will be made available on Minerva
Estimated price: 15 EUR

Referenties

See reference list in course notes.

Vakinhoudelijke studiebegeleiding

Organised 'question hours' enhancing regular follow-up of students. Use of Minerva.

Evaluatiemomenten

periodegebonden en niet-periodegebonden evaluatie

Evaluatievormen bij periodegebonden evaluatie in de eerste examenperiode

Schriftelijk examen met open vragen

Evaluatievormen bij periodegebonden evaluatie in de tweede examenperiode

Schriftelijk examen met open vragen

Evaluatievormen bij niet-periodegebonden evaluatie

Tweede examenkans in geval van niet-periodegebonden evaluatie

Examen in de tweede examenperiode is mogelijk

Toelichtingen bij de evaluatievormen

The exam combines theoretical questions to evaluated knowledge with practical questions that evaluate the analytical capacity of the participant and his/her problem-

solving ability. Questions are very much based on a problem-based approach. Since a large part of the knowledge acquisition is based on practicals, students will only be accepted for the final evaluation if they have participated in the practicals.

Eindscoreberekening

The final score is based on the final examination
Students who eschew period aligned and/or non-period aligned evaluations for this course unit may be failed by the examiner.