



Wageningen University		Basics in Food Safety (FMH-51302)		
Course description	You will learn about the hazards associated with food and the tools to assess and quantify the dangers they can present so that you can differentiate what is a food myth vs. an actual risk.			
Domain	Biology and life sciences			
Keywords	Food hazards	Toxicology	Food risks	
Prerequisites	Secondary school biology			
Level	Bachelor introductory			
Language	English			
Number of credits and workload	2 credits	6-8 hrs per week	56 hrs in total	
Semester period and Start date course	Semester 2	Start date: Not applicable		
Application deadline	1-Apr-19			
Full course description	<p>Module 1: hazards and risks in the modern food chain Introduction to the difference between a hazard and a risk, the different types of hazards present in food and the perception of risk by public.</p> <p>Module 2: Interpretation of risks, probability and relevance Introduction to risk reporting, how ways of presenting information can mislead consumers and difference between significance and relevance.</p> <p>Module 3: Microorganisms in food: good, bad and/or a nuisance Introduction to ubiquitous, good/bad or spoiling microorganisms.</p> <p>Module 4: Qualitative and quantitative principles food safety of chemicals Classification of risks as avoidable or unavoidable, difference between genotoxic and non-genotoxic compounds and examples of important genotoxic carcinogens present in the food chain as well as introduction to dose-response concept.</p> <p>Module 5: Toxicological risk assessment Introduction to risk assessment framework, different ways of performing risk assessments depending on the nature of the chemical (i.e. genotoxic vs. non genotoxic) and hands on risk assessment of the food additive cyclamate and the carcinogen acrylamide.</p> <p>Module 6: Microbiological risk assessment Introduction to contamination routes, dose-response relationship and effect of</p>			

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	<p>temperature on microorganisms' growth as well as sampling and legal requirements.</p> <p>Module 7: Ways to reduce risks in food</p> <p>Introduction to prevention of avoidable hazard, effect of heat on hazards and inactivation as well as prevention techniques to reduce risks in food.</p> <p>Module 8: Final assignment/exam</p> <p>Wrap-up.</p>		
Platform and link to course description	edX	https://www.edx.org/course/nutrition-health-food-risks-wageningenx-nutr103x-0	
Course description in study guide	https://ssc.wur.nl/Handbook/Course/FHM-51302		
Lecturer(s)	Ivonne Rietjens, Marcel Zwietering, Martine Reij		
Extra Course information	Wageningen online courses are fully self-paced and no lecturer is involved. Students must be able to manage their study process independently		
Picture of course			
Final examination date and time /period	tbd	tbd	July/Aug 2019
Examination registration deadline or drop-out deadline	<p>Examination registration to be announced ~ June/July 2019</p> <p>Drop- out deadline</p> <p>Not applicable</p>		
Type of examination	A written exam taken on campus (70%) and final assignment in week 8 of online course (30%)		
Midterm examination?	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no		
Previous exam papers available	<input type="checkbox"/> yes <input checked="" type="checkbox"/> no		
Specific rules for examinations			

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Resit? and date	<input checked="" type="checkbox"/> yes <input type="checkbox"/> no	February 2020
Grade release and transcript release	31-Aug-19	

Available Places 50		
	Interested	(Maximum) places per university <i>(give details if applicable, otherwise each participating university gets an equal part of the available places)</i>
Adelaide	<input type="checkbox"/> yes	Click or tap here to enter number
ANU	<input type="checkbox"/> yes	Click or tap here to enter number
EPFL	<input type="checkbox"/> yes	Click or tap here to enter number
HKUST	<input type="checkbox"/> yes	Click or tap here to enter number
Leiden	<input type="checkbox"/> yes	Click or tap here to enter number
Rice	<input type="checkbox"/> yes	Click or tap here to enter number
TU Delft	<input type="checkbox"/> yes	Click or tap here to enter number
UQ	<input type="checkbox"/> yes	Click or tap here to enter number
Wageningen	<input type="checkbox"/> yes	Click or tap here to enter number