

# Learning Agreement MSc HST

## Major: Human Health, Nutrition and Environment (HHNE)

Matr. no. & student's name:	
Tutor's name:	
Start of study program:	

### Qualification Profile 'Human Health, Nutrition and Environment'

Human health is determined by complex interactions between hereditary predispositions – the genes, individual lifestyles and environmental influences as well as societal aspects. The major in Human Health, Nutrition and Environment focuses on noxious substances, infectious diseases and diet as examples of important factors affecting human health. The aim of this programme is the understanding of the influence of these factors on human health under changing environmental conditions. The mechanisms are studied by taking an integrative, systemic approach, from the molecular through the cellular to the organismic and societal level. This approach provides the basis to map out strategies to improve human health on a societal level.

### Compulsory Courses of the Major

				CP		semester	exam
x	376-0300-00	Translational Science for Health and Medicine	Goldhahn	3	2G	AS .....	wSE
x	376-0302-01	GCP Basic Course (Modules 1 and 2) (or TRREE combination 1/2.1/3.1/3.2/CH-Supplement)	Senti	1	1G	AS .....	uSP
x	701-1701-00	Human Health, Nutrition and Environment: Term Paper	Nuessli Guth	6	13A	AS .....	gSP
x	376-0302-00	Practicing Translational Science (Req.: Translational Science ...)	Goldhahn	2	4A	SS .....	gSP
<b>Total Core Courses</b>				<b>12</b>			

### Elective Courses I of the Major (at least 10 CP)

Elective courses I that are counted for the bachelor's diploma (please tick column BSc) cannot count for the master's diploma, too.

				CP		sem.	exam	BSc
<b>Public Health</b>								
<input type="checkbox"/>	401-0629-00	Applied Biostatistics [recommended]	Tanadini	4	3G	AS .....	oSE	<input type="checkbox"/>
<input type="checkbox"/>	752-6105-00	Epidemiology and Prevention	Puhan	3	2V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-6151-00	Public Health Concepts	Heusser	3	2V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	363-1066-00	Designing Effective Projects for Promoting Health@Work	Bauer	3	2G	SS .....	gSP	<input type="checkbox"/>
<input type="checkbox"/>	752-6104-00	Nutrition for Health and Development	Herter-Aeberli	2	2V	SS .....	gSP	<input type="checkbox"/>
<b>Total Elective Courses I of the Major</b>				<b>.....</b>	<b>(min. 10 CP)</b>			

## Elective Courses II of the Major (at least one course must be taken out of each of the three modules)

Elective courses II that are counted for the bachelor's diploma (please tick column BSc) cannot count for the master's diploma, too.

				CP		sem.	exam	BSc
	x	<u>Module: Infectious Diseases</u> (recommended background: Immunology I+II)						
<input type="checkbox"/>	551-0223-00	Immunology III	Kopf	4	2V	AS .....	wSE	<input type="checkbox"/>
<input type="checkbox"/>	701-0263-01	Seminar in Evolutionary Ecology of Infectious Diseases	Regös	3	2G	AS .....	uSP	<input type="checkbox"/>
<input type="checkbox"/>	701-1471-00	Ecological Parasitology	Jokela	3	2VP	AS .....	wSE	<input type="checkbox"/>
<input type="checkbox"/>	701-1703-00	Evolutionary Medicine for Infectious Diseases	Hall	3	2G	AS .....	gSP	<input type="checkbox"/>
<input type="checkbox"/>	752-4009-00	Molecular Biology of Foodborne Pathogens	Loessner	3	2V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	701-1708-00	Infectious Disease Dynamics	Regös	4	2V	SS .....	oEE	<input type="checkbox"/>
	x	<u>Module: Nutrition and Health</u> (recommended background: Introduction to Nutritional Science & Advanced Topics in Nutritional Science)						
<input type="checkbox"/>	752-2122-00	Food and Consumer Behaviour	Siegrist	2	2V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-5103-00	Functional Microorganisms in Foods	Lacroix	3	2G	AS .....	gSP	<input type="checkbox"/>
<input type="checkbox"/>	752-6101-00	Dietary Etiologies of Chronic Disease	Zimmermann	3	2V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-1300-00	Introduction to Toxicology	Eggen	3	2V	SS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-1300-01	Food Toxicology	Sturla	3	1G	SS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-6102-00	The Role of Food and Nutrition for Disease Prevention	Andersson	3	2V	SS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	752-6402-00	Nutrigenomics	Vergères	3	2V	SS .....	wEE	<input type="checkbox"/>
	x	<u>Module: Environment and Health</u> (recommended background: Grundlagen in der Ökotoxikologie)						
<input type="checkbox"/>	376-1353-00	Nanostructured Materials Safety	Wick	2	1V	AS .....	wEE	<input type="checkbox"/>
<input type="checkbox"/>	701-0662-00	Environmental Exposures (Air Pollution and Noise) and Health Effects	Monn	3	2V	SS .....	wSE	<input type="checkbox"/>
<input type="checkbox"/>	701-1312-00	Ecotoxicology	Schirmer	3	2V	SS .....	oSE	<input type="checkbox"/>
<input type="checkbox"/>	701-1350-00	Case Studies in Environment and Health	McNeill	4	2V	SS .....	gSP	<input type="checkbox"/>
<input type="checkbox"/>	701-1704-01	Health Impact Assessment: Concepts and Case Studies	Winkler	3	2V	SS .....	wSE	<input type="checkbox"/>
		<b>Additional Electives II</b>		<b>CP</b>		<b>sem.</b>	<b>exam</b>	
<input type="checkbox"/>	.....	.....	.....	.....	.....	.....	.....	
<input type="checkbox"/>	.....	.....	.....	.....	.....	.....	.....	

**Total Elective Courses II of the Major**

..... (min. 21 CP)

### Glossary:

V = lecture  
G = lecture with exercise  
U = exercise  
S = seminar  
K = colloquium  
P = practical/laboratory course  
A = independent project  
D = diploma thesis

AS = autumn semester  
SS = spring semester

wSE / oSE = written / oral Session Examination  
wEE / oEE = written / oral End-of-semester Examination  
gSP / uSP = graded / ungraded Semester Performance

## Elective Courses in Science in Perspective

			CP	semester	exam
<input type="checkbox"/>	.....	.....	.....	.....	.....
<input type="checkbox"/>	.....	.....	.....	.....	.....

<b>Total Elective Courses Science in Perspective</b>	.....	<b>(min. 2 CP)</b>
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## Research Internship

				CP	semester
x	376-2100-00	Research Internship (min. 12 weeks full time equivalent) <i>Planned location:.....</i>	Tutor	15	36A .....

<b>Total Research Internship</b>	<b>15</b>
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## Master Thesis

				CP	semester
x	376-2000-00	Master Thesis (max. 28 weeks full time (incl. 2 weeks holyday), start not before BSc completed) <i>Planned location:.....</i>	Tutor	30	71D .....

<b>Total Master Thesis</b>	<b>30</b>
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**Comments** (e.g. Additional Admission Requirements)

Zurich, .....

Signed .....  
Student Tutor