

Course Title	POPG5011 Food Security : Local and Global Perspectives (Also serves for certificate short course)
Course Coordinator	Dr. Tony Yung (yungtony@cuhk.edu.hk)
Credits	2
Day & Time	Wednesday and Friday (18:30 – 21:30)
Description	Despite the advancement in economic development and food technology, there are people living without the basic supply of sufficient and clean foods require for their physiological well-being. The World Food Summit of 1996 defined food security as existing “when all people at all times have access to sufficient, safe, nutritious food to maintain a healthy and active life”. This course introduces the factors affecting the sustainability of the contemporary food systems at both local and global perspectives. Areas including technological advancement, economic drive, political stability, as well as socio-cultural influences will be analyzed critically as insights to tackle the challenge of future food crisis.

I. Content

Topic	Contents/fundamental concepts
Introduction to food security	<ol style="list-style-type: none"> 1. History of food security 2. Dimensions and current indicators of food security 3. Recent food crisis post millennium 4. Brief history of food safety 5. Recent food safety issues
Food system in the 21st century	<ol style="list-style-type: none"> 1. Overview of modern food system 2. Production and commodity trade 3. Processing, distribution, caterers and sale 4. Broken food system: The existence of both under-nutrition and over-nutrition
Factors influencing the food system	<ol style="list-style-type: none"> 1. Natural disaster 2. Manmade disaster 3. Economic and trading 4. Technology 5. Climate change and global warming
Food security in different settings	<ol style="list-style-type: none"> 1. Cultivated land in china: current situation and changes 2. Food trade and its impact in food system in China 3. Food security and poverty in HK 4. Surplus food and food waste in HK 5. Measures to tackle food security in HK
Impact of food security on human's health	<ol style="list-style-type: none"> 1. Malnutrition and ‘Double Burden’ resulted from current food system 2. Syndromes of under-nutrition and hidden hunger 3. Iron deficiency and anaemia 4. Iodine deficiency 5. Vitamin A deficiency
Global standards in food security and food safety	<ol style="list-style-type: none"> 1. Background behind Sphere project 2. Nutrition assessment 3. Infant and young child feeding 4. MDG and SDG
Global efforts to achieve food security	<ol style="list-style-type: none"> 1. Overview of international frameworks for food security 2. Global and regional examples 3. Local efforts and solutions to food security: urban agriculture and food rescue 4. Social, technological and environmental advancement to promote food security

Ensuring food safety to promote food security	<ol style="list-style-type: none"> 1. Definition of food safety 2. Risk and hazard to food 3. Food risk assessment 4. Risk management and communication
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II. Learning Outcomes or Objectives of the Course

<p>After completing this course, students should be able to:</p> <ol style="list-style-type: none"> 1. Understand in detail the definition and scope of food security 2. Apply the understanding of food security to the analysis of global and local situations of food and nutrition supply 3. Realise the global and local efforts tackling food insecurity 4. Understand the role and importance of food safety as an element of food security
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III. Course Schedule (Term 1)

Day	Date	Hrs	Topic	Format	Lecturer	Venue
1	6 Sep, 2019 (Fri) 18:30-21:30	3	Introduction to food security	Lecture	Tony Yung	LKS303
2	11 Sep, 2019 (Wed) 18:30-21:30	3	Food system in the 21st century	Lecture	Tony Yung	LKS303
3	20 Sep, 2019 (Fri) 18:30-21:30	3	Factors influencing the food system	Lecture	Tony Yung	LKS303
4	27 Sep, 2019 (Fri) 18:30-21:30	3	Food security in different settings	Lecture	May Ling Chan	3/F TR
5	4 Oct, 2019 (Fri) 18:30-21:30	3	Impact of food security on human's health (Quiz 1, includes lecture 1-3)	Lecture	Tony Yung	3/F TR
6	11 Oct, 2019 (Fri) 18:30-21:30	3	Global standards in food security and food safety	Lecture	Tony Yung	3/F TR
7	18 Oct, 2019 (Fri) 18:30-21:30	3	Ensuring food safety to promote food security (Quiz 2, includes lecture 5,6 & 7)	Lecture	Tony Yung	3/F TR
8	23 Oct, 2019 (Wed) 18:30-21:30	3	Global efforts to achieve food security	Lecture	Daisy Tam	LKS303
9	30 Oct, 2019 (Wed) 18:30-21:30	3	Project presentation	Presentation	Tony Yung	KCTCRC

Venue:

LKS303 = Room 303, 3/F, Li Ka Shing Medical Sciences Building, PWH

3/F TR = Tutorial Room, 3/F, School of Public Health, PWH

KCTCRC = KCTCRC, 1/F, School of Public Health, PWH

IV. Assessment (for Master of Public Health students only)

<p>Group project (Presentation (30%) and Write up (30%)) Quizzes (2 x 20% each)</p>

V. Learning Resources for Students

Recommended readings or resources	<ol style="list-style-type: none"> 1. World food security: a history since 1945 / D. John Shaw 2. FAO The State of Food Insecurity in the World 3. Food safety : the science of keeping food safe / Ian C. Shaw 4. The food system a guide / Geoff Tansey & Tony Worsley 5. Food security and global environmental change / edited by John Ingram, Polly Ericksen, and Diana Liverman 6. Global food security: emerging issues and economic implication / Munir A. Hanjra 7. Food economics: industry and markets / Munir A. Hanjra 8. Food Security and farm and protection in China / Mao Yushi, Zhao Nong, Yang Xiaojing 9. Public health nutrition / edited on behalf of the Nutrition Society 10. The politics of land and food scarcity / Paolo De Castro 11. Hygiene in food processing : principles and practice / edited by H.L.M. Lelieveld, J.T. Holah and D. Napper 12. Food & drink : good manufacturing practice : a guide to its responsible management 13. HACCP / Sara Mortimore and Carol Wallace ; compiling editor, Christos Cassianos 14. The ISO 9000 quality system : applications in food and technology 15. Food hygiene, microbiology and HACCP / S.J. Forsythe and P.R. Hayes 16. Food safety in China : a comprehensive review / Linhai Wu, Dian Zhu
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VI. Teaching Staff (Instructor)

Course Coordinator	
Name	Dr. Tony Yung (Senior Lecturer, JC School of Public Health and Primary Care, CUHK)
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Name:	Ms. May Ling Chan
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VII. Channels for Feedback for Evaluation

Evaluation will sent to students in the last lecture
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