

## Course Syllabus\*

<b>Code</b>	GLB 201
<b>Name</b>	Food and Health
<b>Hour per week</b>	3
<b>Credit</b>	3
<b>ECTS</b>	4
<b>Level/Year</b>	Undergraduate/2
<b>Semester</b>	Fall
<b>Type</b>	Compulsory
<b>Classroom</b>	See below links for each module's online classroom info.
<b>Course Day/Hour</b>	TBC
<b>Prerequisites</b>	None
<b>Special Conditions</b>	None
<b>Coordinator</b>	Dr. Murat İNAN
<b>Webpage</b>	<a href="http://canvas.agu.edu.tr/courses/">http://canvas.agu.edu.tr/courses/</a>

\*This tentative syllabus is subject to change based on the needs of the class and conditions related to Coronavirus pandemia.

## Course Description

This online course aims at introducing information on global issues related to health and food. It is designed as a multi-disciplinary course. The instructors, assistants and students are coming from diverse academic backgrounds; which produces interesting and thought-provoking outputs at the end of the semester. Students will be provided with opportunities of hands-on practice with the aim of striking a balance between learner-centeredness and sufficient guidance. Various forms of interaction (i.e. pair work and group work) will also be encouraged to cater for learners with different learning styles. The course covers the following topics: Structural determinants of food and health, economics of food consumption and health, cellular agriculture, anti-microbial resistance and the role of probiotics to combat viral infections.

## Methods of Instruction

Online education techniques are going to be applied in this course. The course is designed to promote AGU's third generation university task which is to combine education, research and social impact. In accordance with this task, each week in the first hours, one professor will deliver a synchronous seminar on Zoom to all the students. Seminars will be recorded and sent to students via Google Drive. Following each two-weeks of seminars, a quiz about the last two

lectures is going to be conducted. Each week in the second hours, students will be divided into research groups according to their selection which will have been done in the first week. One professor and an assistant will collect their group in their Zoom account. Each week 2-3 students who were sent one-for-each academic paper one week ago will PowerPoint-present their papers to their classmates on Zoom by screen sharing. These papers will be those discussing the literature of the term project of the related group. Students' paper presentations will also be shared with other students via Drive. In the third hours, the professors and the assistants will mentor their 5/6 research teams which were made of 4/5 students in research methods education and academic writing of their term projects.

### **Learning Objectives and Outcomes**

By the end of this course, students will be able:

1. Analyse the influence of socioeconomic and environmental conditions on food and health conditions.
2. Get perspective on how cell culture techniques can be utilized in our daily lives, particularly for food science and understand the varying approaches and requirements to produce artificial foods and tissues.
3. Grasp knowledge of basic economic analysis and effectiveness of government food policy instruments during seminars and lectures.
4. Understand the risks of food security and sustainability faces in this era.
5. To empower students to be a change agent in society by raising awareness and project ideation on food and health theme.
6. Interpret and evaluate the impacts of antimicrobial resistance on economy, public health, environment, etc.
7. Evaluate the influence of probiotics on viral infections treatment.

### **Grade Distribution:**

The final grade will be determined numerically by averaging your scores with the following weights:

<b>Evaluation Criteria</b>	<b>Weight (%)</b>
<b>In-term Grades</b>	<b>50%</b>
A quiz of the lecture (Online via Kahoot, Quizz after each week lecture) (9 total)	20%
Paper presentation (Delivered online/sent via WeTransfer) (1 total)	20%

Participation to Online Courses (Zoom participation will be counted)	10%
<b>Final Grades</b>	<b>50%</b>
Poster Presentation (1 total)	15%
Term Project	35%
<b>Total</b>	<b>100%</b>

#### Grading Scale:

A	4,00	90-100
A-	3,67	87-89
B+	3,33	83-86
B	3,00	80-82
B-	2,67	77-79
C+	2,33	73-76
C	2,00	70-72
C-	1,67	64-69
D+	1,33	56-63
D	1,00	50-55
F	0,00	0-49

*For a detailed description of grading policy and scale, please refer to the website <https://goo.gl/HbPM2y>(Links to an external site.) (Links to an external site.) (Links to an external site.)section 28.*

#### Poster Presentation

At the end of the semester we are going to have a poster presentation week in the exhibition hall. In case the face-to-face teaching is not possible at that time, the posters and virtual presentation videos (made e.g. with Zoom) will be submitted electronically. The module leaders will grade these presentations. In these presentations all the members of the research team will take comparable roles and introduce to the audience their research project. In these presentations the presenters are expected to answer the following questions:

What was their project about?

- What was their research question?
- What was the scope of their project?
- Where did they conduct their project?
- How did they conduct their project?
- Which instruments did they use while conducting their project?
- What were their limitations?
- What were their findings?
- What did those findings mean?

### **Course Policies:**

- Please follow the instructions laid down in the Student Guide to Remote Learning document. [http://www.agu.edu.tr/userfiles//Student\\_Guide\\_to\\_Learning\\_Remote.pdf](http://www.agu.edu.tr/userfiles//Student_Guide_to_Learning_Remote.pdf)
- Be informed that online courses are in principle and in terms of legal rights and obligations are no different than regular courses.
- English should be used at all times to communicate with one another during online instruction hours.
- Respect the allotted times provided for breaks.
- Cell phones must be turned off and put away during class.
- Other online contents (surfing online, sending emails, chatting via Whatsapp, playing online games) should not be followed during the online course. Consequences include but are not limited to loss of participation points, extra assignments, and/or being asked to leave the online class.
- It is under students' responsibility to provide herself/himself the most appropriate study environment during the class. This should be done by discussing with the family members. Please explain to them that your classes should be taken seriously.
- The instructor has the copyright of all the visual as well as vocal materials shared during the class.
- The instructor has the right to record or not record the course and share or not to share it with the students.
- Students do not have a right to record and broadcast any course material especially the lecture videos neither partly nor wholly.
- Keep all the online materials at hand during the online class.
- Be prepared, having read, written and studied the assigned lessons, articles, or passages;
- Be cooperative and tactful with the lecturer and other students.

### **Attendance Policy**

- Be in the online classroom 5 minutes before the lecture starts.
- 70% online attendance is a must for passing the class (**excluding the add-drop week, more than 10 hours [each week counted as 3 hours] of absence in the online courses without any valid excuse may fail you from the course**).

### **Email Policy:**

When contacting the course assistant or the instructor, please use the AGU email, [firstname.lastname@agu.edu.tr](mailto:firstname.lastname@agu.edu.tr). Include in the subject line the class and section number (GLB202, Section 01). If this information is not included, your email may not be answered. AGU webmail can be accessed through <https://mail.agu.edu.tr>. When you have a problem with

the course, please first try to contact the related course assistant. If your problem is not yet solved and unless your's is an emergency case then visit your professor during office hours. Alternatively, if it is an emergency one use Email option. Any announcements or warnings will be sent to you via CANVAS. Therefore, it is the responsibility of every student to check his/her AGU e-mails and CANVAS regularly.

### **Cheating & Plagiarism:**

You are responsible for knowing the University policies on cheating and plagiarism. Not giving credit to a person for their intellectual work and passing it off as your own is stealing.

Specifically:

- Copying or allowing someone to copy your work on an exam, homework, or in class assignment is cheating.
- Cutting and pasting material from the web or any other electronic source is plagiarism.
- Copying and turning in the same assignment as someone else, from this class or from another class, is cheating. Unless explicitly told otherwise, you can discuss and problem-solve on homework together but the final product has to be your own – not just your own handwriting but your own way of explaining and organizing your ideas.
- Making superficial changes (minor additions, deletions, word changes, tense changes, etc) to material obtained from another person, the web, a book, magazine, song, etc. and not citing the work, is plagiarism. The idea is the intellectual property, not the specific format in which it appears (e.g., you wouldn't reword Einstein's theory of relativity and imply that relativity was your own idea, would you?)
- If you find material and it is exactly what you are trying to say, or you want to discuss someone's idea, give the person credit and cite it appropriately. Don't overuse citations and quotes: instructors want to know how you think and reason, not how someone else does.

If you have any questions or concerns about whether your behavior could be interpreted as plagiarism, please ask the assistants or me before you submit the work. **For a detailed description of AGU policies, please refer to the website at <https://goo.gl/FjLhz>**

### **Course Outline**

<u>Week</u>	<u>Date</u>	<u>First Hours</u>	<u>Second Hours</u>	<u>Third Hours</u>
1	09.10.2020	Syllabus Reading Assist. Prof. Murat İNAN	Syllabus Reading Selection of Research	Syllabus Reading
2	16.10.2020	(1. Quiz) Assist. Prof. Erhan	Teams Paper	Project Work
3	23.10.2020	MUĞALOĞLU (2. Quiz) Assoc. Prof. Kevser	presentation/Discussion Paper	Project Work
4	30.10.2020	KAHRAMAN (3. Quiz) Assoc. Prof. Aysun	Presentation/Discussion Paper	Project Work
5	06.11.2020	CEBECİ AYDIN (4. Quiz) Assist. Prof. Zeliha	presentation/Discussion Paper	Project Work
6	13.11.2020	SORAN ERDEM (5. Quiz)	presentation/Discussion	Project Work
7	20.11.2020	Fall Break		

8	27.11.2020	<b>Invited SPEAKER</b> Inst. Zeynep Tuğçe ÇİFTÇİBAŞI GÜÇ (6. Quiz)	Paper Presentation/Discussion	Project Work
9	04.12.2020	Assist. Prof. Ahmet ÇOYMAK (7. Quiz)	Paper presentation/Discussion	Project Work
10	11.12.2020		the details on module Syllabus	Project Work
11	18.12.2020	<b>Invited SPEAKER</b> Inst. Dr. Özkan FİDAN (8. Quiz)	Paper Presentation/Discussion	Project Work
12	25.12.2020	New Year Holiday (No Class Today!-Postponed to 09.01.2021)	paper presentation/Discussion	Project Work
13	01.01.2021	Assist. Prof. Fatih ORTAKCI (9. Quiz)	Paper presentation/Discussion	Project Work
14	08.01.2021	(Make-up Class) Project Oral Presentation	Project Oral Presentation	Project Presentation
15	09.01.2021			Project Submission
16	15.01.2021	Poster Presentation	Project Submission	Submission

### Course Outline (Detailed)

#### Week 1. Syllabus Reading

#### Week 2. First Module (16.10.2020)

**Module Title:** Some Structural Determinants of Food and Health

**Module Description:** This one-week module is organized to introduce information regarding the structural conditions. Students will explore health conditions and food consumption from their political, economic, social and cultural conditions. This model will increase the awareness of the strong link between some structural factors such as social class, household economy, political situation etc. and food and health conditions.

**Project Title:** How to enhance food and health conditions in Kayseri?

**Project Description:** Our project is a collective research. It's main objective is to investigate structural conditions. We will quantify food and health with several indicators including life expectancy, obesity, physical activity, meat/ sugar/ vegetable consumptions, vitamin deficiency and etc. We will link these indicators with structural factors including generation, place of birth, social class, income and gender play important roles in determination of health conditions. We will answer the question of how to increase food and health conditions in our city, Kayseri. It consists of conducting a survey by phone with randomly chosen respondents in order to examine significant structural determinants of food and health conditions.

**Professor (Coordinator):** Murat İnan

**E-mail:** [murat.inan@agu.edu.tr](mailto:murat.inan@agu.edu.tr)

**Zoom Recurring Meeting ID :** 958 1794 2320

**Assistant:** Serhat Özer

**E-mail:** [serhat.ozer@agu.edu.tr](mailto:serhat.ozer@agu.edu.tr)

**Office/Phone:**

<b>Zoom Recurring Passcode</b> : <b>761081</b> <b>Office/Phone:</b> - <b>Office Hours:</b> Wednesday 13.10-14.00	<b>Office Hours:</b>
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### Week 3. Second Module (23.10.2020)

**Module Title:** Economics of Food Consumption and Health

**Module Description:** This module provides a brief introduction to the economics of food consumption by theory and the market mechanism of supply and demand. Consumer theory helps us understand how our budget, its price, our preferences and health concerns affect our choice that actually creates the demand for a particular good. It allows us to find out how the global (or local) equilibrium price and quantities are determined under a supply and demand curve. Factors (price of any substitute, income, tax or subsidies, or preferences) are changing. Demand for any type of good changes more or less by the price of any other food, which might be a substitute or a complement.

**Project Title:** The impact of Covid-19 pandemics on food and health sectors

**Project Description:** The economic effects of a global outbreak such as Covid-19 are still uncertain. These effects will continue and also how fast the economy will recover. Besides they depend on how deep the effects of the outbreak and whether the long run impacts are persistent. This pandemic is expected to raise short-term inflation as well as cause some structural changes in the long-run. This project aims to assess the economic analysis of the impact of Covid-19 and its containment policies on the food market, agricultural sector, global food and energy prices and health.

<b>Professor:</b> Erhan Muğaloğlu <b>E-mail:</b> <a href="mailto:erhan.mugaloglu@agu.edu.tr">erhan.mugaloglu@agu.edu.tr</a> <b>Zoom Recurring Meeting ID :</b> <b>978 2866 8587</b> <b>Zoom Recurring Passcode</b> : <b>522781</b> <b>Office/Phone:</b> - <b>Office Hours:</b> Friday 16:15-17:00	<b>Assistant:</b> Ömer Faruk Ünüsoy <b>E-mail:</b> <a href="mailto:omerfaruk.unlusoy@agu.edu.tr">omerfaruk.unlusoy@agu.edu.tr</a> <b>Office/Phone:</b>
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### Week 4. Third Module (30.10.2020)

**Module Title:** Global Food Security & Feeding the Planet Sustainability

**Module Description:** Food security and sustainability are issues that need to be addressed together in order to ensure a sustainable future. The main problem is not only “Feeding the world”, the main problem is doing this in a “sustainable way”. The world today threatens the food security and nutrition of millions of people around the world. In this module we will discuss the challenges of agriculture/food sustainability and solution opportunities to increase sustainability.

**Project Title:** Effect of Covid-19 to Food Security/Food Sustainability

**Project Description:** One of the most important areas affected by Covid-19 is the food industry. The aim of this project is to understand the effect of Covid-19 to Food Security/Food Sustainability. There are lots of reports/scientific articles on this topic. Students will choose a subtopic and prepare a literature review.

**Professor:** Kevser Kahraman

**E-mail:** [kevser.kahraman@agu.edu.tr](mailto:kevser.kahraman@agu.edu.tr)

**Zoom Recurring Meeting ID :** 914 6911 3227

**Zoom Recurring Passcode :** zK23rE

**Office/Phone:** -

**Office Hours:**

**Assistant:** Bengisu Akku

**E-mail:** [bengisu.akkurt@](mailto:bengisu.akkurt@)

**Office/Phone:**

**Office Hours:**

### Week 5. Fourth Module (06.11.2020)

#### Module Title: Nutrition and Health

**Module Description:** Nutrition is fundamental to our well-being. As humans, we either thrive or choices. Starting with a brief history of humans, we will learn about different food choices from different to define a “best” diet for modern humans.

#### Project Title: Obesity: A first world problem?

**Project Description:** Obesity is considered a serious health problem in modern ages. The easy access to main contributors. The objective of the project is to understand the basis of this problem, and to try to find food choices. Study groups can prepare questionnaires, determine target groups and health parameters or sea matter and form their hypothesis based on the available information. The aim is for students to information/disinformation on the subject matter and translate this knowledge into their everyday lives.

**Professor:** Aysun Cebeci Aydın

**E-mail:** [aysun.cebeciaydin@agu.edu.tr](mailto:aysun.cebeciaydin@agu.edu.tr)

**Zoom Recurring Meeting ID :** 917 1467 5469

**Zoom Recurring Passcode :** 7VRHgn

**Office/Phone:** B-234

**Office Hours:** Wed 13:10-14:00

**Assistant:** Sedat Gülçimen

**E-mail:** [sedat.gulcimen@agu.edu.tr](mailto:sedat.gulcimen@agu.edu.tr)

**Office/Phone:**

**Office Hours:**

### Week 6. Fifth Module (13.11.2020)

**Module Title:** Cellular Agriculture: Revolutionary technology in food production.

**Module Description:** This module is designed to introduce information regarding the artificial lab-grown technology. Students will explore why and how artificial foods such as meat and cow-free milk are pro Students will be familiar with the terms of cellular agriculture, tissue culture, 3D-printing technology and lecture. We will have an enjoyable journey to the future’s foods and food culture.

**Project Title:** Designing 3D artificial products for food science and clinics.

**Project Description:** The main objective of our project is to understand the advanced use area of tissue engineering new “materials” for food and health. In this project, students will design artificial 3D foods/tissues in the method along with their environmental outputs and ethical considerations in detail. Also, students will try to progress in the existing scientific results in this innovative field by arguing the positive and negative outcomes.

<b>Professor:</b> Zeliha Soran Erdem <b>E-mail:</b> <a href="mailto:zeliha.soranerdem@agu.edu.tr">zeliha.soranerdem@agu.edu.tr</a> <b>Zoom Recurring Meeting ID :</b> <b>938 2533 7633</b> <b>Zoom Recurring Passcode :</b> <b>122017</b> <b>Office/Phone:</b> - <b>Office Hours:</b>	<b>Assistant:</b> Ayşe Can, Özkan İlmek <b>E-mail:</b> <a href="mailto:ozkan.ilmek@agu.edu.tr">ozkan.ilmek@agu.edu.tr</a> <b>Office/Phone:</b> <b>Office Hours:</b>
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**Week 9: Sixth Module (04.12.2020)**

**Module Title:** WHAT ARE SDG’S AND DIVE INTO SDG 2 & 3 – A GLOBAL COMMITMENT TO TACKLE HUNGER - SOCIAL INNOVATION & INCLUSION OF SUSTAINABLE DEVELOPMENT GOALS

**Module Description:** The Sustainable Development Goals (SDGs), Global Goals, are a universal call to action and ensure that all people enjoy inclusion, peace and prosperity. To address and tackle social, economic and environmental challenges, governments and societies in combating them, SDGs define global priorities and aspirations for 2030 for “achieving a world free from discrimination, poverty and put the humanity on a path of sustainability”. Goal 2 aims to end hunger and also commits to universal access to safe, nutritious and sufficient food at all times of the year. This will be achieved through resilient systems and resilient agricultural practices, equal access to land, technology and markets and international cooperation in infrastructure and technology to boost agricultural productivity.

**Project Title:** Let's ask ourselves first “What if?” and be a change agent in our society to enhance food and health conditions in Kayseri?

**Project Description:** This session is focused on achieving greater awareness and knowledge of students on the implementation of SDGs into society.

Students are supposed to prepare an article on SDG’s and also come up with creative project ideas on how to be a change agent in our society to enhance food and health conditions in Kayseri? Our aim is to empower you with creative ideas on the theme. It’s main objective is to create ideas for better food and health conditions in Kayseri. You will be getting feedback from course instructors and students.

<b>Professor :</b> Zeynep Tuğçe ÇİFTÇİBAŞI GÜÇ <b>E-mail:</b> <a href="mailto:zeynep.guc@agu.edu.tr">zeynep.guc@agu.edu.tr</a> <b>Zoom Recurring Meeting ID :</b> <b>979 5068 6644</b> <b>Zoom Recurring Passcode :</b> <b>203498</b>	<b>Assistant:</b> İbrahim Alsancak <b>E-mail:</b> <a href="mailto:ibrahim.alsancak@agu.edu.tr">ibrahim.alsancak@agu.edu.tr</a> <b>Office/Phone:</b> <b>Office Hours:</b>
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Office Hours: -	
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**Week 10. Seventh Module (11.12.2020)****Module Title:** Social Psychology of Food and Health Behaviours in the Context of COVID19 Global Pandemic**Module Description:** In this module of the [Global Problems 201 Food and Health](#), we will review and discuss political psychology related to food and health emergencies in an important applied domain such as current events. We will focus on understanding how a global health threat impacts peoples' behaviours on various levels such as individual, community, and across nation levels. We will also examine the consequences of these impacts on wide variety behaviours including rapid changing in lifestyle and eating habits, economic behaviours, social exclusion, attitudes towards misinformation, beliefs, and social media. We will explore what effective strategies may lead to overcoming these pandemic challenges. See the detailed module syllabus in your "CourseWork" on CANVAS.**Project Description:** Each module group will develop their own research proposal, see the module syllabus in your CANVAS or can't see the module, please search the 3893 coded CANVAS course for the module. The course information is publicly open. Still, you can't access it please [click HERE](#)**Professor:** Ahmet Çoymak**E-mail:** [ahmet.coymak@agu.edu.tr](mailto:ahmet.coymak@agu.edu.tr)**Zoom Meeting for all modules (December 11-13:00-14:00) ID : 95778250999****Zoom Passcode : 545467****Zoom Recurring Meeting for the module:** each class zoom link will be embedded into your CourseWork on CANVAS. Also see the announcement for the 3893 coded CANVAS course**Office/Phone:** -**Office Hours:** [click HERE](#) to get an appointment and zoom link.**Week 12. Eight Module (25.12.2020)****Module Title:** A global problem: Antimicrobial resistance**Module Description:** This module is organized to introduce antimicrobial resistance (AMR) and how it happens. The emergence of AMR will be covered. Students will discuss the impacts of AMR on economy, public health, agriculture, production, etc. This module will not only improve awareness and understanding of antimicrobial resistance but also the action plans to address AMR issues.**Project Title:** How to improve the awareness of antimicrobial resistance in Kayseri?**Project Description:** The main objective of the project is to explore the factors contributing to the emergence of AMR in Kayseri. Particularly, each group will investigate certain aspects that contribute to antimicrobial resistance in Kayseri.

patients/individuals, animal industry, food industry, agriculture and environment. Each group will conduct surveys in the aforementioned places to understand the antibiotics use and how they contribute to the emergence of antimicrobial resistance. The surveys will also be designed to evaluate the awareness level. Finally, each group will come up with creative solutions to reduce antimicrobial resistance in Kayseri.

<p><b>Professor:</b> Özkan Fidan <b>E-mail:</b> <a href="mailto:ozkan.fidan@agu.edu.tr">ozkan.fidan@agu.edu.tr</a> <b>Zoom Recurring Meeting ID :</b> <b>930 2687 5785</b> <b>Zoom Recurring Passcode :</b> <b>417509</b> <b>Office/Phone:</b> - <b>Office Hours:</b> Monday 16.40- 17.30</p>	<p><b>Assistant:</b> Merve Şansacı <b>E-mail:</b> <a href="mailto:merve.sansacar@agu.edu.tr">merve.sansacar@agu.edu.tr</a> <b>Office/Phone:</b> <b>Office Hours:</b></p>
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#### Week 14. Ninth Module

**Module Title:** Role of probiotics to combat viral infections

**Module Description:** This module is organized to introduce i) probiotic organisms and their function in the human immune system iii) is there any link between probiotics and viral infections treatment.

**Project Title:** Is there any link between probiotics and covid-19 treatment?

**Project Description:** The goal of our project is to mine the scientific database to elucidate the impact of probiotics seen all around the world. Students performing in depth literature search will provide scientific evidence whether probiotic intake and covid-19 treatment in patients infected with this novel virus.

<p><b>Professor:</b> Fatih Ortakçı <b>E-mail:</b> <a href="mailto:fatih.ortakci@agu.edu.tr">fatih.ortakci@agu.edu.tr</a> <b>Zoom Recurring Meeting ID :</b> <b>923 7910 8288</b> <b>Zoom Recurring Passcode :</b> <b>Da1Ek1</b> <b>Office/Phone:</b> - <b>Office Hours:</b></p>	<p><b>Assistant:</b> Ahmet Basar <b>E-mail:</b> <a href="mailto:ahmet.basar@agu.edu.tr">ahmet.basar@agu.edu.tr</a> <b>Office/Phone:</b> <b>Office Hours:</b></p>
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