



Course Syllabus

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|----|--|--|--|
| 1 | Course title | Agriculture and Food Security | |
| 2 | Course number | 0635440 | |
| 3 | Credit hours | 3 | |
| | Contact hours (theory, practical) | 2 lectures a week | |
| 4 | Prerequisites/corequisites | Macroeconomics 0605215 | |
| 5 | Program title | Bachelor in Agricultural Economics and Agribusiness | |
| 6 | Program code | 05 | |
| 7 | Awarding institution | The University of Jordan | |
| 8 | School | School of Agriculture | |
| 9 | Department | Agricultural Economics and Agribusiness | |
| 10 | Course level | Undergraduate | |
| 11 | Year of study and semester (s) | 2022-2023 / Second Semester | |
| 12 | Other department (s) involved in teaching the course | N/A | |
| 13 | Main teaching language | English | |
| 14 | Delivery method | <input checked="" type="checkbox"/> Face to face learning <input type="checkbox"/> Blended <input type="checkbox"/> Fully online | |
| 15 | Online platforms(s) | <input type="checkbox"/> Moodle <input checked="" type="checkbox"/> Microsoft Teams <input type="checkbox"/> Skype <input type="checkbox"/> Zoom <input type="checkbox"/> Others..... | |
| 16 | Issuing/Revision Date | 2023 | |

17 Course Coordinator:

Name: Dr. Nael Thaher

Contact hours: upon request

Office number: 2nd floor

Phone number: 22465

Email: n.thaher@ju.edu.jo



18 Other instructors: None

Name:

Office number:

Phone number:

Email:

Contact hours:

Name:

Office number:

Phone number:

Email:

Contact hours:

19 Course Description:

As stated in the approved study plan.

The course aims to help students developing the basic concept of food security. It focuses on definition of food security, the dimensions extracted from it, the strategic elements of food security, the entrances to food security. This course examines the natural resources and socioeconomic indicators related to Arab food security. In addition to agricultural technical development, crisis and disasters and their impact on Arab food security. The course provides discussion on the role of the international organizations of the United Nations in achieving global food security and addresses the impact of conflict, agricultural trade and the global economic system on the issue of food security and food security policies. The course addresses undernourishment versus food insecurity, overview of the economic situation in Jordan, and the top challenges of agriculture in Jordan, nutrition situation in Jordan (trends), Jordan's agricultural development and strategies related to agriculture and food security, and details of the elements of food security including availability, accessibility, utilization, and stability. A discussion on Jordan's situation of FS to the regional & global impact to ensure the safeguard of Jordan's FS at all levels. The focus is on productivity and management of the agriculture sector in the Arab region, as well as food waste and loss along the supply chain and trends in food demand and trends in food supply.

20 Course aims and outcomes:

A- Aims:

1. Students' awareness of food security in terms of its definition, dimensions, and elements.
2. Developing and enhancing students' knowledge of the international organizations for agriculture, factors that are affecting on food security.
3. Educating students about food security policies, the nutrition situation and its trends, population growth, natural increase in population.
4. Introducing students to the concept of productivity and management of agriculture, trends in food demand and food supply.

B- Students Learning Outcomes (SLOs):

Upon successful completion of this course, students will be able to:

| SLOs SLOs of the course | SLO (1) | SLO (2) | SLO (3) | SLO (4) |
|---|---|---|--|--|
| A. Knowledge & Understanding | Develop a basic understanding of food security and its importance in the Arab world and Jordan. | Identify the strategic elements of food security. | Exhibit a good understanding of factors affecting food security and the transformation of food system. | Determine the role of international organizations and global trade in food security. |
| B. Intellectual, Analytical and Cognitive skills | Knowledge of food security policies. | Knowing the natural increase in population and the socioeconomic indicators related to food security. | | |
| C. Subject-Specific Skills | Knowledge of food system transformation and the challenges of agriculture in the Arab world. | Awareness of food security situation in the Arab world and Jordan. | The ability to describe challenges that are hindering achievement of food security in the Arab world and Jordan. | QF-AQAC-03.02.01 |

21. Topic Outline and Schedule:

| Week | Lecture | Topic | Intended Learning Outcome | Learning Methods (Face to Face/Blended/ Fully Online) | Platform | Synchronous / Asynchronous Lecturing | Evaluation Methods | Resources* |
|------|---------|--|---------------------------|---|----------|--------------------------------------|---------------------------------|------------------|
| 1 | 1,2 | Natural resources & socioeconomic indicators related to Arab food security | B2 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 2 | 3-4 | Agricultural technical development | C3, A3 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 3 | 5-6 | Crisis & disasters and their impact on Arab food security | A1, A2 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 4 | 7-8 | The definition of food security and its elements & dimensions | A1, B1, C1 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 5 | 9-10 | Population & food consumption | B2 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 6 | 11-12 | Jordan overview-economic situation | D1, D2 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 7 | 13-14 | The agriculture sector & food security in Jordan | C2 | Face to Face | MT | Synchronous | Assignment & quiz Mid-exam | Course Materials |
| 8,9 | 15-16 | Undernourishment versus food security, causes & drivers | C2 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials |
| 10 | 17-18 | Nutrition situation in Jordan, and | D2 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials |

| | | | | | | | | | |
|----|-------|---|------------|--------------|----|-------------|---------------------------------|------------------|--|
| | | trends | | | | | | | |
| 11 | 19-20 | National strategies & management of agriculture & food security | B1, A4 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials | |
| 12 | 21-22 | Productivity & management, food waste & loss | A1, A2, B2 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials | |
| 13 | 23-24 | Trends in food demand & food supply | C3 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials | |
| 14 | 25-26 | The impact of conflict on food security | A1, A2, A3 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials | |
| 15 | 27-28 | The role of international organization in supporting countries to transform the food system | A4 | Face to Face | MT | Synchronous | Assignment & quiz Final-exam | Course Materials | |

22 Evaluation Methods:

Opportunities to demonstrate achievement of the SLOs are provided through the following assessment methods and requirements:

| Evaluation Activity | Mark | Topic(s) | SLOs | Period (Week) | Platform |
|--------------------------------|------|-------------------------------|----------------------------|-------------------|---------------|
| Assignments, Quiz & Discussion | 20% | As assigned by the instructor | All | Every three weeks | MT & In-Class |
| Mid-Term Exam | 30% | After 7 weeks | A1-A3, B1-B2, C1-C3, D1-D2 | Once | In-Class |
| Final Exam | 50% | At the end of the semester | All | Once | In-Class |

23 Course Requirements



(e.g: students should have a computer, internet connection, webcam, account on a specific software/platform...etc): Account at Microsoft Teams.

24 Course Policies:

As determined by the Registration Unit & The U of J Academic Misconduct Policy & Procedures

- A- Attendance policies:
- B- Absences from exams and submitting assignments on time:
- C- Health and safety procedures:
- D- Honesty policy regarding cheating, plagiarism, misbehavior:
- E- Grading policy:
- F- Available university services that support achievement in the course:

25 References:

- A- Required book(s), assigned reading and audio-visuals:
Southgate, Graham T. (2007). The World Food Economy. Second Edition. John Wiley & Sons, Inc.
- B- Recommended books, materials, and media:
UNESCWA and FAO. (2017). Arab Horizon 2030-Prospects for Enhancing Food Security in the Arab Region. www.unescwa.org.
UNESCWA. (2020). Arab Food Security, Vulnerabilities and Pathways. E/ESCWA/CL1.CCS/2020/1. www.unescwa.org.
UNESCWA. (2022). Counting the World's Poor: Back to Engel's Law. E/ESCWA/CL2.GPID/2022/TP.21. www.unescwa.org.
FAO, IFAD, UNICEF, WFP and WHO. (2020). The State of Food Security and Nutrition in the World 2020. Transforming Food Systems for Affordable Healthy Diets. Rome, FAO. <https://doi.org/10.4060/ca9692en>
FAO. (2019). Regional Overview of Food Security and Nutrition. Rural Transformation-Key for Sustainable Development in the Near East and North Africa.
FAO. (2021). Unlocking the Potential of Protected Agriculture in the Countries of the Gulf Cooperation Council. Saving water and improving nutrition. Cairo. <https://doi.org/10.4060/cb4070en>



The Federal Government of Germany. GIZ. Food for Billions. Federal Ministry of Food and Agriculture (BMEL).

Fabien Tondel, Cecilia D'Alessandro and Koen Dekeyser. (2022). The effects of major economies' policies on climate action, food security and water in developing countries. Discussion Paper No. 327.

26 Additional information:

None.

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| Name of Course Coordinator: ----- | Signature: ----- | Date: ----- |
| ----- | | |
| Head of Curriculum Committee/Department: ----- | Signature: ----- | |
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| Head of Department: ----- | Signature: ----- | |
| - | | |
| Head of Curriculum Committee/Faculty: ----- | Signature: ----- | |
| - | | |
| Dean: ----- | Signature: ----- | |