

**NATIONAL UNIVERSITY OF LIFE
AND ENVIRONMENTAL SCIENCES OF UKRAINE**

Department of administrative management and foreign economic activity



"ENDORSED"

by the department's meeting 

Record №_20 dated on "_24_"_May_2022
Head of the department Lutsiak V. V.

"REVIEWED"

Guarantor of the academic program
«Management»
Lutsiak V. V.



**Work program of the academic discipline
ECONOMICS OF WORLD AGRICULTURE**

Specialty 073 «Management»
Academic program Management
Faculty of agrarian management
Developer: PhD in Economics, Associate Professor
of the department of administrative management
and foreign economic activity
Faichuk O.M.

(position, academic degree, academic title)

Kyiv – 2022

1. Academic discipline description

Economics of world agriculture

(назва)

Field of knowledge, specialty, educational program, educational degree			
Educational degree	<i>Bachelor</i>		
Specialty	<i>073 Management</i>		
Academic program	<i>Management</i>		
Characteristics of the academic discipline			
Kind	Mandatory		Mandatory
Total number of hours	120		-
The number of ECTS credits	4		-
The number of content modules	2		-
Course project (work) (if available)	-		-
Form of control	<i>Exam</i>		-
Indicators of academic discipline for full-time and extramural forms of study			
	Full-time studies		Part-time study
Year of preparation	2	-	
Semester	4	-	
Lectures	30 h.	-	h.
Practical classes	30 h.		h.
Laboratory classes	-	-	h.
Independent study	60 h.	-	h.
Individual classes	-		h.
Number of weekly classroom hours for full-time study	4 h.	-	h.

2. Objectives and tasks of the academic discipline

The objective is training of "new generation" specialists who would be able to navigate the current problems of the global food system, based on which to make informed decisions to increase the competitiveness of domestic agri-food enterprises in both domestic and foreign markets. This will not only ensure high profitability of domestic agribusiness, but also solve the problem of providing the population with quality and safe food at reasonable prices.

The tasks:

- to find out the role and place of agriculture in the structure of the world economy;
- to reveal the level of providing the countries of the world with land, labor and material resources;
- to explain the main instruments of state support for agriculture in developed and developing countries;
- to teach students to determine the economic assessment of break-even point of agricultural production in different countries;
- to reveal the features of the main organizational forms of agricultural production in the world;
- to analyze the situation on the world market of traditional crop and livestock products;
- to explain the causes of the global food problem;
- to consider the main principles of production of quality and safe food in the world;
- to substantiate the impact of global warming on the world economy.

As a result of studying the discipline the student must:

know:

- the role of agriculture in the world economy;
- provision of agriculture in different countries and regions with land, labor and material resources;
- differences in state support for agriculture in developed and developing countries;
- economic efficiency of production of various types of agricultural products in the world;
- organizational forms of agriculture production in different countries;
- the state of the world markets for crop and livestock products;
- the level of food security in the world; guaranteeing the quality and safety of food in the world;
- the impact of global climate change on the development of the world agricultural economy

be able:

- to determine the type of country according to the share of the agricultural sector;
- to calculate the level of security and economic efficiency of land, labor and material resources in this year. different countries;
- to determine the amount of state support this year manufacturer in different countries;
- to calculate the break-even volume of agricultural production. enterprise;
- to analyze trends in world markets for basic crop and livestock products.

Acquisition of competencies:

General competencies (GC):

GC#3 - Ability to abstract thinking, analysis and synthesis;

GC#5 - Knowledge and understanding of the subject area and understanding professional activity;

GC#11 – Ability to adapt and act in a new situation;

GC#12 – Ability to generate new ideas (creativity);

GC#14 – Ability to work in an international context.

Special competencies (CC):

CC#2 - Ability to analyze the results of the organization, to compare them with the factors of external and internal environment.

CC#3 - Ability to determine the prospects for the development of the organization;

CC#5 – Ability to manage the organization and its departments through the implementation of management functions;

CC#12 - Ability to analyze and structure the problems of organizations, to form a substantiated decision.

3.The programme and structure of the academic discipline:

Titles content modules and themes	Hours											
	Daily form						Correspondence form					
	total	including					total	including				
		lec	pr.	sem	lab	ind		lec	pr	sem	lab	ind
1	2	3	4	5	6	7	8	9	10	11	12	13
MODULE #1. THE ROLE AND RESOURCES OF THE WORLD AGRICULTURE												
<i>Theme #1.</i> The role of agriculture in the world economy	14	4	2	2	-	6	-	-	-	-	-	-
<i>Theme #2.</i> Land use in world agriculture	10	2	2	-	-	6	-	-	-	-	-	-
<i>Theme #3.</i> Labor force in world agriculture	10	2	2	-	-	6	-	-	-	-	-	-
<i>Theme #4.</i> Machinery and fertilizer use in world agriculture	10	2	2	-	-	6	-	-	-	-	-	-
Total of module #1	44	10	8	2	-	24	-	-	-	-	-	-
MODULE #2. GOVERNMENT SUPPORT, ECONOMIC EFFICIENCY AND MODERN TENDENCIES OF THE WORLD FOOD SYSTEM												
<i>Theme #5.</i> Agricultural policies in the developed and emerging economies	8	4	2	2	-	-	-	-	-	-	-	-
<i>Theme #6.</i> Economic estimation of break-even production in foreign agriculture	10	2	2	-	-	6	-	-	-	-	-	-
<i>Theme #7.</i> The world crop market	14	4	2	2	-	6	-	-	-	-	-	-
<i>Theme #8.</i> The world livestock market	14	4	2	2	-	6	-	-	-	-	-	-
<i>Theme #9.</i> World organic farming	10	2	-	2	-	6	-	-	-	-	-	-
<i>Theme #10.</i> Food insecurity in the world	10	2	-	2	-	6	-	-	-	-	-	-
<i>Theme #11.</i> Climate change and food security	10	2	-	2	-	6	-	-	-	-	-	-
Total of module #2	76	20	8	12	-	36	-	-	-	-	-	-
Total hours												
Course work												
TOTAL HOURS	120	30	16	14	-	60	-	-	-	-	-	-

4. Themes of seminars

<i>№</i>	<i>Theme</i>	<i>hours</i>
1	The role of agriculture in the world economy	2
2	Land use in world agriculture	-
3	Labor force in world agriculture	-
4	Machinery and fertilizer use in world agriculture	-
5	Agricultural policies in the developed and emerging economies	2
6	Economic estimation of break-even production in foreign agriculture	-
7	The world crop market	2
8	The world livestock market	2
9	World organic farming	2
10	Food insecurity in the world	2
11	Climate change and food security	2
	Total	14

5. Themes of practice

<i>№</i>	<i>Theme</i>	<i>hours</i>
1	The role of agriculture in the world economy	2
2	Land use in world agriculture	2
3	Labor force in world agriculture	2
4	Machinery and fertilizer use in world agriculture	2
5	Agricultural policies in the developed and emerging economies	2
6	Economic estimation of break-even production in foreign agriculture	2
7	The world crop market	2
8	The world livestock market	2
9	World organic farming	-
10	Food insecurity in the world	-
11	Climate change and food security	-
	Total	16

6. Topic of laboratory classes

<i>№</i>	<i>Topic</i>	<i>Hours</i>
1		
2		
...		

7. Test to determine the level of knowledge acquisition by students

NATIONAL UNIVERSITY OF LIFE AND ENVIRONMENTAL SCIENCES OF UKRAINE			
<i>Educational degree</i> «Bachelor»	Department of administrative management and foreign economic activity	EXAM TICKET # <u>1</u> with discipline	Approved Head of the department
<i>Specialty/</i> 073 - «Management»	_____	«Economics of world agriculture»	_____ (signature) Lutsiak V.V.
	2022/23		Protocol # 20 «24» May 2022
Екзаменаційні запитання			

<p>1. Determine the level of economic efficiency of agrarian land using in Saudi Arabia if: gross milk production – 1508380 t, value of gross agrarian production – 34143397 thousand USD, agricultural land – 173435 thousand hectares, arable land – 3200 thousand hectares.</p>		
<p>2. Estimate the break-even yield of corn in the US farms if the production costs of corn growing per hectare equaled: seeds – 194,86 USD, mineral fertilizers – 327,23 USD, plants protection – 69,7 USD, fuel – 71,8 USD, other variable costs – 69,72 USD, depreciation – 201,18 USD, land rent – 286,7 USD, taxes and insurance payments – 23,41 USD, total production costs – 35,78 USD, labor – 69,34 USD; market corn price – 141,45 USD; planned yield – 9,78 tonnes per hectare.</p>		
<p>Тестові завдання різних муніс</p>		
<p>1. How many people is the total labor force in the world agriculture? A) 550 million persons B) 1,3 billion persons C) 7,1 billion persons D) 2,9 billion persons</p>		
<p>2. Which country is the leader of sunflower oil export? A) Argentina B) Ukraine C) Russia D) China</p>		
<p>3. Where is the highest level of agricultural support observed between the OECD countries? A) Norway B) New Zealand C) Brazil D) USA</p>		
<p>4. Which countries are the major dairy exporters (milk equivalent)? A) China, India, USA, EU, Pakistan B) Australia, New Zealand, USA, EU, Argentina C) USA, Israel, Kongo, Brazil, Ukraine D) New Zealand, Indonesia, Morocco, Poland, Ecuador</p>		
<p>5. <u>Insert the missing indexes:</u> Agriculture is a major source of growth, accounting for A)___ % of GDP is a large share of GDP—and most of the poor are in rural areas – B)___% in agriculture-based countries</p>		
<p>6. <u>Finish the sentence:</u> The annual monetary value of all gross transfers from taxpayers and consumers arising from policy measures that support agriculture, net of associated budgetary receipts, regardless of their objectives and impacts on farm production and income, or consumption of farm products A)_____</p>		
<p>7. <u>Finish the sentence:</u> The international umbrella organization for the organic world, uniting close 800 Affiliates in 118 countries is A)_____</p>		
<p>8. <u>Finish the sentence:</u> Phenomenon which occurring between 1940s and the late 1970s that increased agriculture production by introducing new technologies and innovations to agriculture around the world (first of all in developing countries) is A)_____ B)_____</p>		
<p>9. <u>Match these terms with their definitions</u> Types of food security dimensions:</p>		
A)	Food availability	A) refers to the use of food and how a person is able to secure essential nutrients from the food consumed

B)	Food accessibility	B) is determined by the physical quantities of food that are produced, stored, processed, distributed and exchanged
C)	Food utilization	C) is determined by the temporal availability of, and access to, food

10. What is the following situation?



8. Methods of teaching

Lecture is the main form of classroom classes in higher education, it is designed to form in students the basics of knowledge in the relevant scientific field, as well as to determine the direction, main content and nature of all other types of classes and independent work of students in the discipline "World Agriculture" , as well as the connection with other disciplines. The main task of the lecture is to teach specific topics in accordance with the curriculum in a logical sequence and relationship.

Practical classes provide consolidation and systematization of students' theoretical knowledge and the acquisition of the necessary skills on the peculiarities of the national economy and institutional factors and their impact on the specifics of economic development.

Independent and individual work is the main means of mastering the material in free time from classroom classes based on the study of legislation, educational literature, additional sources, current information. In addition, individual tasks involve students' performance of research - creative, creative tasks. These tasks are aimed at improving the level of training and development of individual creative abilities of gifted students.

9. Forms of control

Control of acquired knowledge is carried out in the following forms: current control in practical classes (surveys, testing, performance of situational tasks), modular control (control work after studying the study material combined into a module or content module), final control (current modular control over the results of the studied material and write a test).

10. Distribution of points received by students

Assessment of student knowledge is on a 100-point scale and translated into national assessments in accordance with table 1 "Regulations on examinations and tests in NUBiP of Ukraine" (order of entry into force of 27.12.2019 №1371)

Rating of student, score	National assessment based on the results of the compilation
	exam
90-100	Excellent
74-89	Good
60-73	Satisfactorily
0-59	Unsatisfactorily

To determine the rating of the student for mastering the discipline $R_{\text{дис}}$ (up to 100 points) received a rating from the final test (up to 30 points) attached to the rating of the student for academic work $R_{\text{НР}}$ (up to 70 points): $R_{\text{дис}} = R_{\text{НР}} + R_{\text{АТ}}$.

11. Methodical maintenance

1. Economics of world agriculture: Робочий зошит / В.П. Галушко, О.М. Файчук, І.А. Міщенко. К.: ЦП «КОМПРИНТ». 2014. 308 с.
2. Economics of world agriculture: workbook [метод.вказ.] / В. П. Галушко, О. М. Файчук, І. А. Міщенко. К. : ЦП «КОМПРИНТ». 2016. 407 с.

12. Recommended literature:

1. Economics of world agriculture: [навч. посіб.] О. М. Файчук, І. А. Міщенко. К. : ЦП «КОМПРИНТ». 2016. 457 с.
2. Mostenska T., Skopenko N., Fedulova I., Ubrežiová I., Kundieieva G., Faichuk O., Kostiuk O., Kovtun O., Mischenko I., Yevsieieva-Severyna I., Yelyzaveta Synetska Ing., Yurii Eduard. Ukrainian food security under condition of sustainable development: global challenges. Monograph. Poland, Szczecin: Scientific Publishing House (SPH), Centre of Sociological Research. 2019. 180 p.
3. Faichuk, O., Voliak, L., Hutsol, T., Glowacki, Sz., Pantsyr, Y., Slobodian, S., Szelag-Sikora, A., Gródek-Szostak, Z. European Green Deal: Threats Assessment for Agri-Food Exporting Countries to the EU. *Sustainability*. 2022, 14, 3712. DOI: <https://doi.org/10.3390/su14073712>
4. Kovalenko, V., Kovalenko, N., Labenko, O., Faichuk, O., Faichuk, O. Bioenergy sustainable development: achieving the balance between social and economic aspects. E3S Web Conf., 154. 2020, 07008. DOI: <https://doi.org/10.1051/e3sconf/202015407008>.
5. Economics of world agriculture: [навч. посіб.] О.М. Файчук, І.А. Міщенко. К.: ЦП «КОМПРИНТ». 2012. 324 с.
6. Економіка світового сільського господарства: [підруч.] / [Галушко В.П. та ін.]; за ред. В.П. Галушко, В.К. Берегового. К.: ЗАТ «Нічлава» ТОВ ЦТІ «Енергетика та електрифікація». 2011. 1000 с.
7. Світове сільське господарство та продовольчі ресурси: Навч. посіб. В.П. Галушко, О.М. Файчук, О.П. Комарніцька. К.: ЦП «Компринт». 2011. 241 с.
8. Діброва А.Д. Державне регулювання сільськогосподарського виробництва: теорія, методологія, практика. К.: ВПД «Формат». 2008. 488 с.
9. Трейси М. Сельское хозяйство и продовольствие в экономике развитых стран: Введение в теорию, практику и политику. СПб: Экон. шк.. 1995. 431 с.
10. Кваша С.М., Файчук О.М., Файчук О.В. Європейська економічна інтеграція. Навчальний

- посібник. Київ : НУБіП України. 2019. 282 с.
11. Kvasha S.M., Faichuk O.M., Faichuk O.V. European economic integration. Tutorial. Kyiv: NULES of Ukraine. 2019. 270 p.
 12. Кваша С.М., Діброва А.Д., Жемойда О.В. Аграрна полі-тика: [навч.посіб.] С.М. Кваша, А.Д. Діброва, О.В. Жемойда. К.: Вид-во «Ліра-К». 2018. 388 с.
 13. Кьостер, Ульріх. Основи аналізу аграрного ринку. Наук. ред. пер. О. Нів'євський. К.: Вид-во АДЕФ-Україна. 2012. 486 с.
 14. Основи аграрної економіки: [підр.] В.П. Галушко, Гвідо Ван Хуленбрук, О.А. Ковтун та ін. К.: Вища освіта. 2003. 399 с.
 15. Modernising and Simplifying the CAP. Economic challenges facing EU agriculture// European Commission. - 11 December 2017 [Електронний ресурс]. – Режим доступу: https://ec.europa.eu/agriculture/sites/agriculture/files/consultatios/cap-modernising/soc_background_final_en.pdf

Інформаційні ресурси:

1. Official website FAO data - <https://www.fao.org/faostat/en/#data>
2. Official website of the World Bank data - <https://data.worldbank.org/>
3. Official website of the OECD agriculture - <https://www.oecd.org/agriculture/>
4. Official website of the IFOAM - <https://www.ifoam.bio/>
5. Official website of the Food and Agricultural Policy Research Institute - <https://www.fapri.missouri.edu/>