

**КИЇВСЬКИЙ НАЦІОНАЛЬНИЙ УНІВЕРСИТЕТ
ІМЕНІ ТАРАСА ШЕВЧЕНКА
ЕКОНОМІЧНИЙ ФАКУЛЬТЕТ**

Кафедра *економічної кібернетики*

**«ЗАТВЕРДЖУЮ»
Заступник декана
з навчальної роботи**

31 серпня 2026 року

РОБОЧА ПРОГРАМА НАВЧАЛЬНОЇ ДИСЦИПЛІНИ

APPLIED MICROECONOMICS/ПРИКЛАДНА МІКРОЕКОНОМІКА

для студентів

галузь знань	05 «Соціальні та поведінкові науки»/ 05 Social and and behavioral sciences
спеціальність	051 «Економіка»/051 “Economics”
освітній рівень	бакалавр/ bachelor degree
вид дисципліни	вибіркова/optional

Форма навчання	денна/full-time
Навчальний рік	2026/2027
Семестр	6
Кількість кредитів ECTS	5

Мова викладання, навчання та оцінювання	англійська/English
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Форма заключного контролю	іспит/exam
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Викладач: Ставицький Андрій Володимирович, доктор економічних наук, професор кафедри економічної кібернетики / Andriy Stavytskyu, Dr. Hab., Professor of Economic Cybernetics Department

Пролонговано: на 20__/20__ н.р. _____ (_____) «__»__ 20__р.
(підпис, ПІБ, дата)

на 20__/20__ н.р. _____ (_____) «__»__ 20__р.
(підпис, ПІБ, дата)

КИЇВ – 2026

Розробник: Ставицький Андрій Володимирович, доктор економічних наук, професор, професор кафедри економічної кібернетики / Andriy Stavytskyu, Dr. hab in Economics, Professor, Professor at Economic Cybernetics Department

ЗАТВЕРДЖЕНО

Зав. кафедри економічної кібернетики

_____ (Олена ЛЯШЕНКО)
(підпис)

Протокол № 1 від 31 серпня 2026 р.

Схвалено науково - методичною комісією економічного факультету

Протокол №1 від 31 серпня 2026 року

Голова науково-методичної комісії _____ (Аліна МАГОМЕДОВА)
(підпис)

INTRODUCTION

1. The purpose of the discipline – in-depth study of microeconomic theory based on mathematical models that formalize basic economic concepts.

2. Pre-requisites for a discipline:

1. Know the basic theories of the functioning of microeconomic agents, the causes of market failures.
2. Have the skills to solve the problems of profit maximization for the firm and the expected utility for the individual.

3. Course summary:

The curriculum consists of the following content modules:

1. Models of activity of firms and households. The module deals with the activities of firms and individuals in different market conditions.
2. Behavioral economics. The module examines the issues of market imbalance due to various objective circumstances, in particular, the asymmetry of information. Models that take this impact into account are proposed.

4. Objectives (learning objectives) - in-depth understanding of microeconomic phenomena and concepts, application the methods of microeconomic modeling and analysis, using the results of microeconomic analysis to develop and make management decisions, demonstrate the relationship between microeconomic decisions and macroeconomic policy.

The discipline is aimed at achieving the following general and professional (subject) competencies of the graduate:

The ability to apply economic and mathematical methods and models for solving economic problems

1. Ability to think abstractly, analyze and synthesize
2. Ability to communicate in a foreign language.
3. Ability to apply economic and mathematical methods and models to solve economic problems

5. Learning outcomes:

<i>Learning outcomes</i> <i>(1- know, 2. - be able 3. - communication**, 4- autonomy and responsibility*)</i>		<i>Methods of teaching and learning</i>	<i>Assessment</i>	<i>% in the final score</i>
Code	Learning outcome			
1.1	Know the basic theories and models of functioning of households, firms, microeconomic subjects	Lecture, laboratory work	Exam, test	20%
2.1	Be able to develop models of microeconomic entities in different conditions of their operation	Lecture, laboratory work	Test, homework	20%
2.2	Be able to aggregate information from several microeconomic models to formulate macroeconomic conclusions	Lecture, laboratory work	Presentation, homework, project, exam	10%
3.1	Present the results of the analysis with the help of analytical calculations	Lecture, laboratory work, project	Presentation, homework.	20%
3.2.	Develop models of microeconomic systems in a team	Lecture, laboratory work, project	Homework, project	10%
4.1.	Carry out an independent research project and modify existing models for the conditions of modern management	Lecture, laboratory work, project	Homework, project	20%

6. Evaluation scheme:

6.1. Forms of student assessment: (max 60 points / min 36 points)

- semester assessment:

1. Homework check (LO 1.1, 2.1, 2.2) - 20 points / 12 points
2. Two tests and independent tests in the classroom (LO 1.1, 1.2) - 20 points / 12 points.
3. Project implementation (LO 3.1, 3.2, 4.1) - 20 points / 12 points.

- final assessment in the form of an exam

A student is not allowed to take the exam if he / she received less than 36 points during the semester.

If the student's grade on the exam is lower than the minimum threshold level (24 points), the points for the exam are not added to the semester grade (considered equal to zero), and the final grade in the discipline is unsatisfactory.

There are 3 blocks of tasks for the exam:

Block 1 - theoretical questions (2 problems);

Block 2 - creative tasks (2 tasks);

Block 3 - calculation task (1 task).

	Semester points	Exam	Final grade
Minimum	36	24	60
Maximum	60	40	100

The exam is written and oral. Students must answer the instructor's questions regarding the completed tasks to confirm their understanding of the answers received.

6.2. Evaluation organization:

Evaluation of 9 homeworks - 30 points;

Evaluation of 2 tests - 5 points for each;

Evaluation of 1 project - a maximum of 20 points;

Assessment of 5 exam tasks - maximum 40 points (30 points for test problems with calculations, 10 points for the modeling problem)

In case of additional issues and difficult situations during the educational process, their solution is carried out with reference to the principles of the Regulations on the organization of the educational process at the Taras Shevchenko National University of Kyiv.

The use of generative artificial intelligence within the framework of mastering the educational component is defined in accordance with the "Regulations on the use of artificial intelligence in the implementation of educational programs at Taras Shevchenko National University of Kyiv" and is set at Level 3, which provides for the mainly permitted use of generative artificial intelligence at all stages of performing assessed tasks, provided that academic integrity is observed. Applicants are allowed to use generative AI tools at all stages of preparing assessed tasks (discussions, cases, individual practical tasks, presentations, mastering the Project management module), including using web search, provided that author control is maintained, critical analysis of the results obtained and academic integrity is observed. The use of AI without indicating this fact is prohibited. The applicant is obliged to clearly indicate the fact and method of using AI (declaration in the work, references to the tools used).

During the final test and oral responses, the use of generative artificial intelligence is prohibited (Level 1).

6.3. Correspondence Scale

Excellent	90-100
Good	75-89
Satisfactory	60-74
Fail	0-59

7. Thematic plan

№	Lecture	Hours		
		Lecture	Lab.work	Self-work
Content module 1 Modeling of firms and households				
1	Introduction to microeconomic modelling	2	2	10
2	Topic 1. Model of the individual consumer	4	4	16
3	Topic 2. Modelling of firms.	4	4	10
4	Topic 3. Dominant firm	2	2	12
5	Topic 4. Modelling and analysis of external effects.	2	2	10
6	Topic 5. Modelling in asymmetric information markets.	2	2	10
	Test work 1		2	4
Content module 2 Behavioural economics				
7	Topic 6. Economic theory of crime.	2	2	10
8	Topic 7. Modelling of markets for factors of production.	6	4	10
9	Topic 8. Modelling of tax policy.	2	2	10
10	Topic 9. Auctions, their types, modelling.	2	2	8
11	Topic 10. Microeconomic modelling of foreign trade.	4	2	8
	Test work 2		2	2
12	Topic 11. Dynamic stochastic models of general equilibrium in microeconomic modelling.	2	2	10
	TOTAL	34	34	130

The total amount 150 hours, including:

Lectures - **34** hours.

Laboratory works - **34** hours.

Consultations - **4** hours.

Self-work - **78** hours.

8. Suggested Reading:

Main:

1. Andriy Stavytskyy's official site. 2026. URL: <http://www.andriystav.cc.ua>
2. Ставицький А.В., Харламова Г.О. Моделювання мікроекономічних процесів. Навч. посібник. К. 2018. 182 с.
3. Kharlamova G.O., Stavytskyy A.V., Melnyk R.A. Financial Management: tutorial. Kyiv, 2021. 182 p. ISBN 978-617-646-501-0
4. Stavytskyy A.V. Economic security of Ukraine: strategy and mechanisms of provision. Kyiv: AgrarMedia Group, 2018. 464 p.
5. Kharlamova, G., Stavytskyy, A., Naumova M. Gender Matters For The Entrepreneurial Activity: Case Of European States // Studies in Business and Economics, Lucian Blaga University of Sibiu, Faculty of Economic Sciences, vol. 15(3), pages 287-302, December. URL: <https://ideas.repec.org/a/blg/journal/v15y2020i3p287-302.html>
6. Malaga K., Sobczak K. Microeconomics: Static and Dynamic Analysis. Cham : Springer, 2022.
7. Osborne M. J., Rubinstein A. Models in Microeconomic Theory: Expanded Second Edition. Cambridge : Open Book Publishers, 2023.
8. Kandori M. Mighty Microeconomics: A Guide to Thinking Like an Economist. Cambridge : Cambridge University Press, 2023.
9. Espinola-Arredondo A., Muñoz-Garcia F. Game Theory: An Introduction with Step-by-Step Examples. Cham : Springer, 2023.
10. Kreps D. M. Microeconomic Foundations II: Imperfect Competition, Information, and Strategic Interaction. Princeton : Princeton University Press, 2023.
11. MacLeod W. B. Advanced Microeconomics for Contract, Institutional, and Organizational Economics. Cambridge, MA : MIT Press, 2022.
12. Sethi S. P. Optimal Control Theory: Applications to Management Science and Economics. Cham : Springer, 2022.
13. Положення про організацію освітнього процесу у Київському національному університеті імені Тараса Шевченка. Режим доступу: <http://www.univ.kiev.ua/pdfs/official/Organization-of-the-educational-process.pdf>.
14. Положення про використання штучного інтелекту при реалізації освітніх програм у Київському національному університеті імені Тараса Шевченка. (2026). Київський національний університет імені Тараса Шевченка. https://senate.knu.ua/wp-content/uploads/2026/03/Положення_III_.pdf

Additional:

15. International economics. Microeconomics (Міжнародна економіка. Мікроекономіка) : manual / N. Ilarionova. - Kyiv : Ліпа-К, 2017. - 315 p.
16. Stavytskyy, A., Kharlamova, G., Giedraitis, V., Cheberyako, O., & Nikytenko, D. Gender question: Econometric answer // Economics and Sociology. 2020. 13(4), 241-255. doi:10.14254/2071-789X.2020/13-4/15
17. Обушна О.М., Ставицький А.В. Навчально-методичний комплекс з курсу „Мікроекономіка” для студентів економічних спеціальностей. – К. : РВВ ІМФ, 2004. – 64 с.
18. Положення про організацію освітнього процесу у Київському національному університеті імені Тараса Шевченка. Режим доступу: <http://www.univ.kiev.ua/pdfs/official/Organization-of-the-educational-process.pdf>.

Electronic resources:

19. <https://www.imf.org/external/index.htm> - International Monetary Fund
20. <https://ec.europa.eu/eurostat/home?> - Statistical office of the European Union
21. <https://bank.gov.ua/> - Національний банк України.