

**MINISTRY OF EDUCATION AND SCIENCE OF UKRAINE
LVIV POLYTECHNIC NATIONAL UNIVERSITY**



«APPROVED»

Rector
of Lviv Polytechnic
National University
Yuriy BOBALO

“ 23 ” 05 2023

EDUCATIONAL-PROFESSIONAL PROGRAM

«BUSINESS ECONOMICS»

LEVEL OF HIGHER EDUCATION Second (master's) level

DEGREE OF HIGHER EDUCATION "Master"

BRANCH OF KNOWLEDGE 05. «Social and Behavioral Sciences»

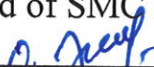
SPECIALTY 051 Economics

Considered and approved
at a meeting of the Academic Council
Lviv Polytechnic National University
by « 23 » 05 2023
Protocol № 1


COPY LIST
educational-professional program

Level of higher education	Second (master's) level
Degree of higher education	Master
Branch of knowledge	05. Social and Behavioral Sciences
Specialty	051 Economics

DEVELOPED AND APPROVED


Scientific and Methodical commission
of specialty 051 "Economics"
Protocol №3
from « 10 » march - 2023
Head of SMC specialty

Orest KOLESHCHUK

RECOMMENDED

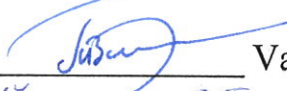
Scientific and Methodical
council of the University
Protocol № ⁴⁰
from « 18 » 05 2023
Head of SMC the University

Anatolij ZAGORODNII

AGREED

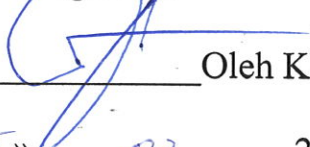
Vice-Rector for Graduate Education
of Lviv Polytechnic National
University


Oleh DAVYDCHAK
« 14 » 05 2023

Head of Educational and Methodical
Department of the University


Vasyl TOMIUK
« 17 » 05 2023

Director of the Institute of Economics
and Management


Oleh KUZMIN
« 15 » 03 2023


PREFACE

Developed on the basis of the Standard of Higher Education of Ukraine in the specialty 051 "Economics" of the field of knowledge 05 "Social and Behavioral Sciences" for the second (master's) level of higher education, approved by the Order of the Ministry of Education and Science of Ukraine No. 382 of 04.03.2020.

DEVELOPED BY

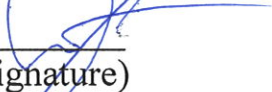
The project group of specialty 051 "Economics" of the Lviv Polytechnic National University, consist of:

Khrystyna ZALUTSKA	– guarantor of the educational-professional program, doctor of economic sciences, professor, professor of Department of Enterprise Economy and Investment
Orest KOLESHCHUK	– doctor of economic sciences, associate Professor, head of Department of Enterprise Economy and Investment
Vasyl KOZYK	– Ph.D., professor, professor of Department of Enterprise Economy and Investment
Olexandra MRYKHINA	– doctor of economic sciences, professor, professor of Department of Enterprise Economy and Investment
Nadiya SELUCHENKO	–Ph.D., associate Professor, associate Professor of Department of Enterprise Economy and Investment
Roman HALAYKO	– Chairman of the Board of the Lviv Regional Cooperative Interfarm Construction Association "Lvivoblagroprombud"
Valentuna HRYSHKO	– Director of VAMIR-GAL LLC
Khrystyna MYKHALENYCH	– student of the group EKEB-11

Guarantor of the educational-professional program,
doctor of economic sciences, professor,  Khrystyna ZALUTSKA
professor of Department of Enterprise Economy and Investment

The project of the educational and professional program was discussed and approved at the meeting of the Academic Council of the Institute of Economics and Management

Protocol № 8 from « 15 » _____ march _____ 2023.

The head of the Academic Council of Institute  Oleh KUZMIN
(signature) (surname, initials)

Approved and provided

By order of the rector Lviv Polytechnic National University
from « 29 » 05 _____ 2023 № 273-1-10

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1. Profile of the master's program in specialty 051 «Economics» with a specialization in Business Economics

1 – General information	
Full name of institution of higher education and structural subdivision	Lviv Polytechnic National University
Level of higher education	Second (master's) level
Degree of higher education	Master
Branch of knowledge	05. Social and Behavioral Sciences
Specialty	051 Economics
Education qualification	Master's degree in economics
Qualification in the diploma	Degree of higher education "Master" Specialty 051 "Economics" Educational program "Business Economics"
The official name of the educational program	Business Economics
The amount of credits under the European Credit Transfer and Accumulation System required to obtain the relevant higher education degree	90 ECTS credits, duration of study 1.5 years. At least 35% of the educational program is aimed at ensuring general and special (professional) competencies in the specialty defined by the higher education standard.
Availability of accreditation	-
Cycle / Level	NRC of Ukraine - 7 level, FQ-EHEA - second cycle, QF-LLL - 7 level
Prerequisites	Bachelor's degree
Restrictions on forms of education	No restrictions
Language (s) of teaching	Ukraine, English
Basic concepts and their definition	The program uses the basic concepts and their definitions in accordance with the Law of Ukraine "On Higher Education", as well as the Standard of Higher Education of Ukraine: second (master's) level, field of knowledge 05 Social and Behavioral Sciences, specialty 051 Economics.
2 – The purpose of the educational program	
	Training of specialists who will possess modern economic thinking and relevant competencies that will enable them to creatively and effectively perform professional duties in the field of business economics and take leadership positions in labor collectives.
3 - Characteristics of the educational program	
Subject area	Object of study and/or activity: modern economic processes and phenomena, scientific methods of normative, quantitative and institutional analysis, tools for the formation of international, national, regional, sectoral economic policy and business economics. Learning objectives: training of highly qualified professionals in economics who have modern economic thinking, theoretical

	<p>knowledge and applied skills, capable of solving complex research, innovation and management tasks and problems of functioning of economic systems of different levels, characterized by uncertainty of conditions and requirements.</p> <p>Theoretical content of the subject area: general laws and trends of economic development, motivation and behavior of market participants; theories of micro-, macro- and international economics; modern quantitative methods of analysis of economic processes; institutional and interdisciplinary analysis; regularities of modern socio-economic processes; theories of economic management for various production systems and sectors of the economy.</p> <p>Methods, techniques and technologies: general scientific and specific methods of cognition and research; mathematical, statistical, qualitative methods of economic analysis; sociological, expert evaluation, questionnaires; economic and mathematical modeling, forecasting; information and communication technologies, special software; methods of research and presentation of research results.</p> <p>Tools and equipment: modern information and communication equipment, information systems and software products used in economic activities.</p>
Orientation of the educational program	The educational and professional program is based on the fundamental postulates and results of modern theoretical and applied research in the field of economics and focuses on the current specialization "Business Economics", within which further professional and scientific careers are possible: manager, manager, specialist, professional in the field of economics, teacher of a higher education institution.
The main focus of the educational program and specialization	The educational and professional program represents special education and professional training in the specialization «Business Economics» with two selective blocks of professional orientation: economic justification of business decisions; economic business management. Keywords: financial management, integrated business structures, innovative development, business competitiveness, business analytics, business processes, business transformation.
Features and differences	The educational and professional program is based on the results of modern applied research of the domestic and foreign labor market in the field of economics, takes into account the peculiarities of the functioning of business entities, their current needs and requirements for specialists in economics. It provides for partial teaching of professionally oriented disciplines in a foreign language.
4 – Eligibility of graduates of the educational program for employment and further education	
Eligibility for employment	Jobs in the public, private and public sectors of the economy in the field of financial and economic justification of business decisions, business analytics, innovative business development, business process management and business transformation, project management, as well as in higher education institutions as teachers.
Further education	Training at the third (educational and scientific) level of higher education "Doctor of Philosophy", advanced training programs
5 – Teaching and evaluation	
Teaching and education	Conducting lectures, laboratory and practical classes, consultations with academic staff and practitioners. Involvement of students in competitions, olympiads and research events, holding scientific conferences, independent

	educational and research work, internships on the topic of master's qualification work, completion of master's qualification work, which is presented and discussed with the participation of teachers, practitioners, students.
Evaluation	Written and oral examinations (testing, answers to problematic questions, problem solving, oral discussion of completed tasks), tests, defense of course projects, control and individual works (calculation, research), and internship reports. The final certification is the defense of a master's thesis.
6 – Software competencies	
Integral competence (InC)	Ability to identify and solve complex economic tasks and problems, make appropriate analytical and managerial decisions in the field of economics or in the process of study, which involves research and/or innovation under uncertain conditions and requirements.
General competencies (GC)	GC1. Ability to generate new ideas (creativity). GC2: Ability to think abstractly, analyze and synthesize. GC3: Ability to motivate people and move towards a common goal. GC4: Ability to communicate with representatives of other professional groups of different levels (with experts from other fields of knowledge / types of economic activity). GC5. Ability to work in a team. GC6: Ability to develop and manage projects. GC7: Ability to act on the basis of ethical considerations (motives). GC8: Ability to conduct research at the appropriate level.
Professional competence of speciality (PC)	PC1.Ability to apply scientific, analytical, methodological tools to substantiate the development strategy of economic entities and related management decisions. PC2.Ability to communicate professionally in the field of economics in a foreign language. PC3: Ability to collect, analyze and process statistical data, scientific and analytical materials necessary for solving complex economic problems, to draw reasonable conclusions based on them. PC4.Ability to use modern information technologies, methods and techniques for researching economic and social processes that are adequate to the established research needs. PC5.Ability to identify key trends in socio-economic and human development. PC6.Ability to formulate professional tasks in the field of economics and solve them, choosing the appropriate directions and appropriate methods for their solution, taking into account the available resources. PC7.Ability to justify management decisions on the effective development of business entities. PC8.Ability to assess possible risks, socio-economic consequences of management decisions. PC9: Ability to apply a scientific approach to the formation and implementation of effective projects in the socio-economic sphere. PC10: Ability to develop scenarios and strategies for the development of socio-economic systems. PC11. Ability to plan and develop projects in the field of economics, to carry out its information, methodological, material, financial and personnel support.

Professional competencies of specialization (PCS)

Block 1. Business case for business decisions

PCS 1.1. Ability to develop and justify decisions on managing the competitiveness of the enterprise.

PCS 1.2. Ability to develop and justify decisions on innovative business development.

PCS 1.3. Ability to develop proposals and justify decisions on project financing.

Block 2. Economic management of business

PCS 2.1. Ability to justify and implement measures for the formation and effective functioning of the controlling system in business structures.

PCS 2.2. Ability to justify management decisions on business transformation.

PCS 2.3. Ability to justify proposals and management decisions to optimize business processes to achieve strategic goals of the enterprise.

7 – Program learning outcomes (PLOs)

PLO1: Formulate, analyze and synthesize solutions to scientific and practical problems.

PLO2. Develop, justify and make effective decisions on the development of socio-economic systems and management of economic entities.

PLO3. Communicate fluently on professional and scientific issues in the state and foreign languages orally and in writing.

PLO4. To develop socio-economic projects and a system of comprehensive actions for their implementation, taking into account their goals, expected socio-economic consequences, risks, legislative, resource and other constraints.

PLO5. Adhere to the principles of academic integrity.

PLO6. Evaluate the results of their own work, demonstrate leadership skills and the ability to manage staff and work in a team.

PLO7: Choose effective methods of economic activity management, justify the proposed solutions based on relevant data and scientific and applied research.

PLO8. Collect, process and analyze statistical data, scientific and analytical materials necessary for solving complex economic problems.

PLO9: Make effective decisions under uncertain conditions and requirements that require the use of new approaches, methods and tools of socio-economic research.

PLO10. Apply modern information technologies and specialized software in socio-economic research and in the management of socio-economic systems.

PLO11. Determine and critically evaluate the state and trends of socio-economic development, form and analyze models of economic systems and processes.

PLO12. Justify management decisions on the effective development of business entities, taking into account goals, resources, constraints and risks.

PLO13. Assess possible risks, socio-economic consequences of management decisions.

PLO14. Develop scenarios and strategies for the development of socio-economic systems.

PLO15. Organize the development and implementation of socio-economic projects, taking into account information, methodological, material, financial and personnel support.

Block 1. Economic justification of business decisions

PLOC1.1. Assess the level of competitiveness of the enterprise, identify its competitive advantages, develop and justify programs to improve the competitiveness of the enterprise.

PLOC1.2. Assess the level of innovative development and innovative potential of the enterprise, develop strategies and business models for innovative development of the enterprise.

PLOC1.3. Develop development scenarios and project financing models, justify project financing options, form financial budgets for projects.

Block 2. Economic management of business

PLOC2.1. Apply controlling and business intelligence tools to substantiate proposals and make management decisions about doing business.

PLOC2.2 Identify and evaluate the key parameters of business transformation, develop and justify decisions on the choice of the optimal way to transform the enterprise based on the use of methods and tools of economic management.

PLOC2.3. Identify a system of business processes that allow achieving certain strategic goals, implement its formalized description and optimization.

Communication (COM)	COM 1. To communicate information, ideas, problems, solutions and own experience in the field of professional activity to specialists and non-specialists. COM 2. Ability to effectively formulate a communication strategy.
Autonomy and Responsibility (AaR)	AaR 1. Management of complex actions or projects, responsibility for decision-making in unpredictable conditions. AaR 2. Responsibility for the professional development of individuals and/or groups. AaR 3. Ability to continue learning with a high level of autonomy.
8 – Resource support for the implementation of the program	
The main characteristics of personnel provision	90% of the academic staff involved in teaching professionally oriented disciplines in the specialty 051 "Economics" have academic degrees and academic titles. All research and teaching staff have completed appropriate internships and advanced training, including foreign ones.
Main characteristics of logistic support	Use of lecture halls equipped with multimedia equipment, laboratories for laboratory and practical classes using PCs. Use of modern application programs: "Microsoft Office; Microsoft Project; Statistica; QlikView (business analysis system); Allfusion Process Modeler (business process modeling system); Rune WFI (business process management and regulations administration system); ERwin Process Modeler (database design and documentation system); ARENA (simulation modeling system).
Main characteristics of information and methodological support	Use of the distance learning platform "Virtual Learning Environment" of Lviv Polytechnic National University, MS Teams, Google Meet, Zoom, author's developments of scientific and pedagogical staff, including textbooks and manuals with the stamp of the Ministry of Education and Science of Ukraine and the stamp of the Academic Council of Lviv Polytechnic National University.
9 – Academic mobility	
National Credit Mobility	National Credit Mobility
International Credit Mobility	International Credit Mobility
Teaching of foreign applicants for higher education	Teaching of foreign applicants for higher education

2. Distribution of the content of educational-professional program by groups of components and training cycles

№ s/n	Preparation cycle	The amount of learning capacity of the applicant of higher education (credits / %)		
		Mandatory components of educational-professional program	Selective components of educational-professional program	In total for the whole period of study
1	2	3	4	5
1.	General preparation cycle	3/3	3/3	6/6
2.	Cycle of professional preparation	64/71	20/23	84/94
In total for the whole period of study		67/74	23/26	90/100

3. List of components of the Educational-professional program

Code	Component' name EP	Components amount in credits ECTS	Form of final control
1	2	3	4
MANDATORY COMPONENTS OF SPECIALTY			
<i>1. General preparation cycle</i>			
CK1.1.	Social responsibility of business	3	differential credit
<i>Total for the cycle:</i>		3	
<i>2. Cycle of professional preparation</i>			
CK2.1.	Economic Tools for Managing Projects and Programs for the Development of Socio-Economic Systems	6	exam
CK2.2.	English (for professional purposes)	4	differential credit
CK2.3.	Activities of Economic Entities on Foreign Markets	7	exam
CK2.4.	Financial Management in Business	7	exam
CK2.5.	Ukrainian as a foreign language	3	differential credit
CK2.6.	Economics of Integrated Business Structures	7	exam
CK2.7.	Master's Thesis Internship	12	differential credit
CK2.8.	Master's Thesis Preparation	15	
CK2.9.	Master's Thesis Defence	3	
<i>Total for the cycle:</i>		47	
Total for the group of compulsory components of the specialty:		50	
Selective components of educational-professional program			
<i>1. General training cycle</i>			

Total for the cycle:		3	differential credit
<i>2. Professional training cycle</i>			
<i>Selected components of block 1 "Economic justification of business decisions"</i>			
SB1.1.	Business Competitiveness	5	exam
SB1.2.	Innovative Development of business	5	exam
SB1.3.	Project Financing	5	differential credit
Total:		15	
<i>Selected components of Block 2 "Economic management of business"</i>			
SB2.1.	Controlling for Business	5	exam
SB2.2.	Economic Mechanisms of Business Transformation	5	exam
SB2.3.	Business Process Management	5	differential credit
Total:		15	
Selective components of other educational-professional programs			
Total:		5	differential credit
Total for selective components:		23	
Total for educational-professional program		90	

4. Form of attestation of applicants for higher education

Forms of certification of higher education applicants	Attestation is carried out in the form of a public defense of the qualification work.
Requirements for qualification work (if any)	<p>The qualification work should involve solving a complex specialized task or a practical complex task or problem in the economic sphere that requires research and/or innovation and is characterized by uncertainty of conditions and requirements.</p> <p>The qualification work should not contain academic plagiarism, falsification and cheating. The qualification work must be published on the official website or in the repository of Lviv Polytechnic National University. The publication of qualification papers containing information with restricted access shall be carried out in accordance with the requirements of the current legislation.</p>

5. Matrix of correspondence of program competencies to the components of educational-professional program "Business Economics"

	CK1.1	CK2.1	CK2.2	CK2.3	CK2.4	CK2.5	CK2.6	CK2.7	CK2.8	CK2.9	SB1.1	SB1.2	SB1.3	SB2.1	SB2.2	SB2.3
GC1							•									
GC2	•			•	•									•	•	•
GC3	•			•				•								
GC4	•			•	•			•					•	•		
GC5	•							•						•		
GC6		•						•								
GC7	•	•		•	•		•	•			•	•	•		•	•
GC8			•				•		•							
PC1																
PC2			•							•						
PC3				•			•	•								
PC4		•						•						•		
PC5	•															
PC6							•	•								
PC7	•				•		•	•			•	•		•	•	•
PC8	•				•				•			•		•	•	
PC9		•							•							
PC10					•						•					
PC11		•											•			
PCS 1.1					•						•					
PCS 1.2		•										•				
PCS 1.3		•			•								•			
PCS 2.1					•									•		
PCS 2.2															•	
PCS 2.3					•											•

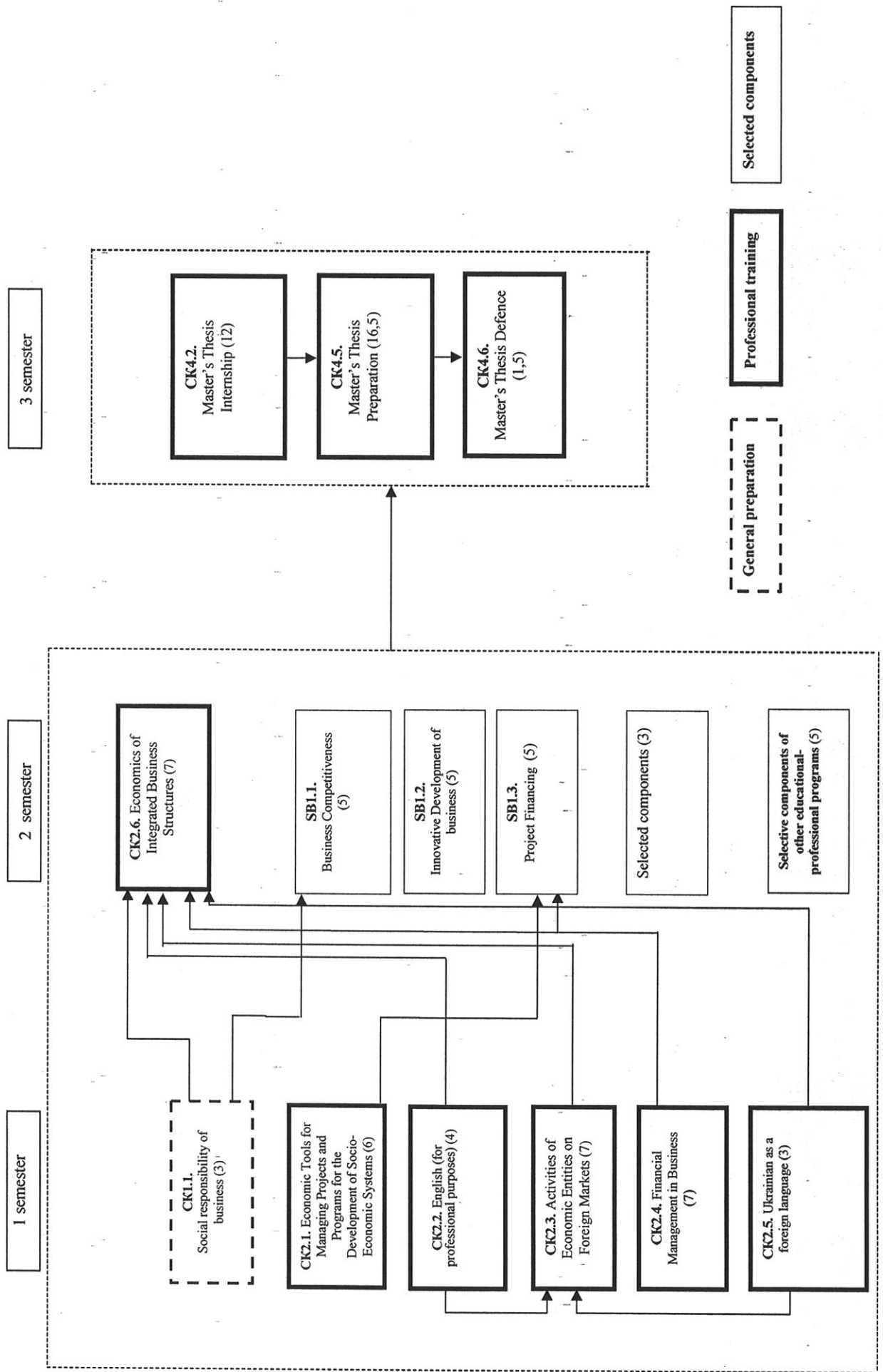
Symbols: CKi - compulsory discipline of the specialty, i - the number of the discipline in the list of components of the educational component, SBki - elective discipline, k - the number of the elective block, GCj - general competence, PCj - professional competence of the specialty, PCSkj - professional competence of the professional direction, j - the number of the competence in the list of competences of the educational component.

6. Matrix of providing program learning outcomes with relevant components of educational-professional program "Business Economics"

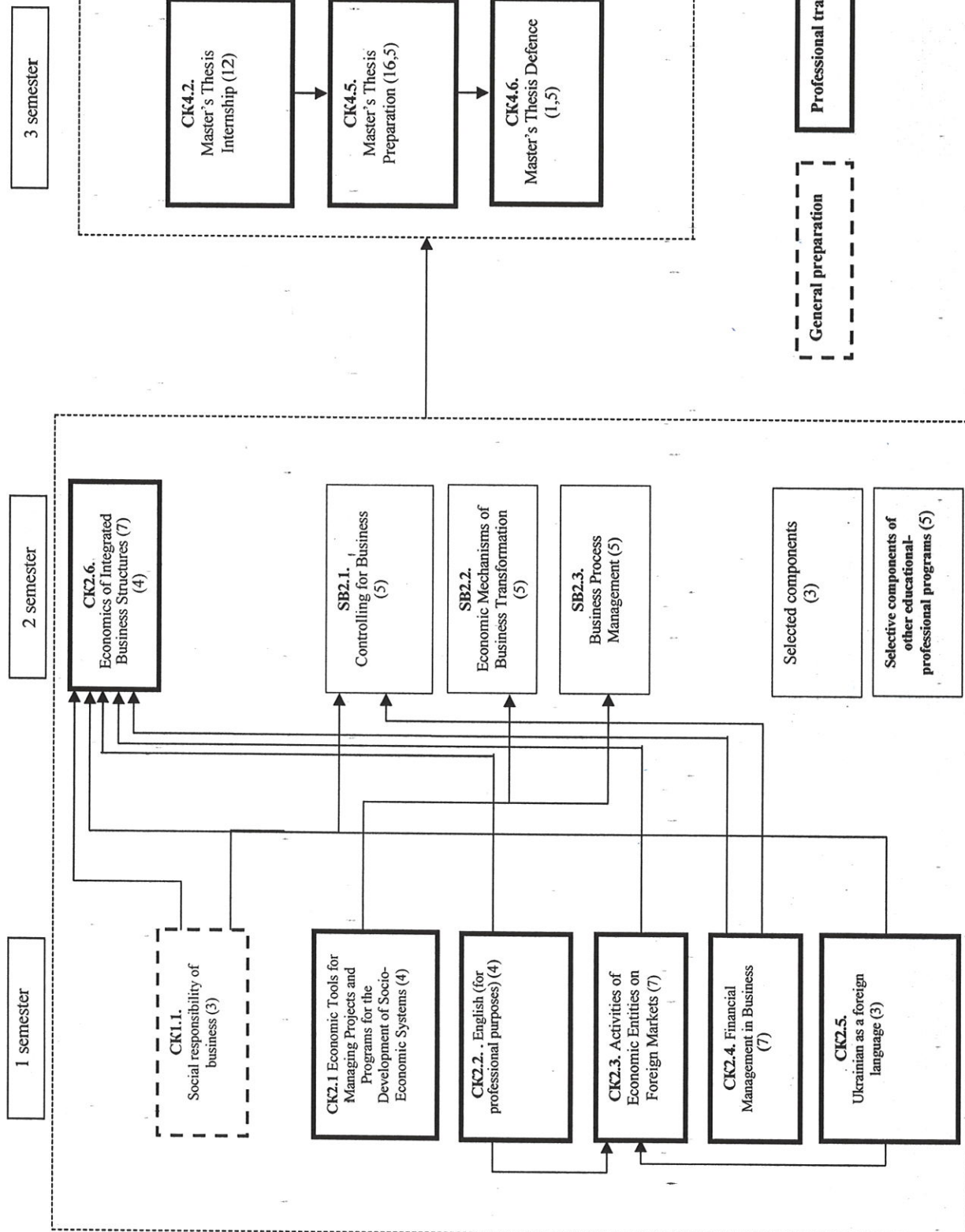
	CK1.1	CK2.1	CK2.2	CK2.3	CK2.4	CK2.5	CK2.6	CK2.7	CK2.8	CK2.9	SB1.1	SB1.2	SB1.3	SB2.1	SB2.2	SB2.3
PLO1																
PLO2	•						•		•					•		•
PLO3			•			•			•							
PLO4		•											•			
PLO5	•								•		•					
PLO6	•															
PLO7					•		•				•					
PLO8								•								
PLO9																
PLO10		•					•		•							•
PLO11	•						•		•		•			•		
PLO12				•			•				•			•		•
PLO13	•			•					•		•			•		
PLO14	•			•					•		•			•		
PLO15	•										•			•		
PLO C1.1					•						•					
PLO C1.2												•				
PLO C1.3													•			
PLO C2.1	•													•		
PLO C2.2					•										•	
PLO C2.3							•									•
COM1	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
COM2	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
AaR1	•	•					•	•	•							
AaR2	•		•					•								
AaR3		•						•	•	•						

Symbols: CKi - compulsory discipline, i - number of the discipline in the list of components of the educational component, SBki - elective discipline, k - number of the elective block, PLOm - programmatic learning outcomes in the specialty, PLOcm - programmatic learning outcomes in the professional direction, COMm - programmatic outcomes (communication), AaRm - programmatic outcomes (autonomy and responsibility), m - number of the programmatic outcome in the list of programmatic outcomes of the educational component.

Structural and logical diagram of the OPP "Business Economics" (Selective Block 1 "Economic Justification of Business Decisions")



Structural and logical diagram of the EPP "Business Economics" (Selective Block 2 "Economic Management of Business")



Changes in the structure and content of the educational program

Subject of changes	2023 year	2024 year
Subject area (field of knowledge, specialty, object, goals, theoretical content, methods and technologies, tools and equipment)	-	-
The purpose of the educational program	-	-
The main focus of the educational program	-	-
Features and differences from other OPs	-	-
Competencies	-	-
Program learning outcomes	-	-
Compliance matrixes for the GC, PC, PLO and CK	-	-
Characteristics of information and educational and methodological support	-	-
International credit mobility	-	-
Structural and logical diagram	-	-
List of educational components (disciplines, practices, coursework and qualification works)	-	-
Other	-	-

Guarantor of the educational program _____



Khrystyna ZALUTSKA