

AGREED

**Director of the international transport
and logistics company "AsstrA Almaty" LLP"
Akhmetova R.K.**



I APPROVE
Director of the Institute
logistics and business
Musaeva G.S.
« 20 » 02 2025 y.

CATALOG OF DISCIPLINES OF THE UNIVERSITY COMPONENT

EDUCATIONAL PROGRAM

6B11368 International logistics

Education level: Bachelor's degree

Duration of study: 3 years

Year of admission: 2025 y

Mod ule	Cycl e	Comp onent	Name of discipline	Total labor intensity		Semester	Learning outcomes	Brief description of the discipline	Prerequisites	Post-requirements	Depart ment
				in academic hours	in academic credits						
1	2	3	4	5	6	7	8	9	10	11	12
Module of natural science competencies	BD	UC	Business mathematics 1	150	5	1	LO1	The discipline studies the basic concepts and laws of modern mathematics, which are necessary tools for solving specific applied business problems. The discipline aims to develop students' independent research skills and the ability to use learned mathematical methods for data analysis, process optimization and decision-making. The content of the discipline includes elements of linear algebra and analytical geometry, differential and integral calculus, probability theory and mathematical statistics. For each section of the course, special attention is paid to problems of an applied nature.	Basic School Education	Engineering Graphics and Computer Modeling, Information Technology in Logistics, Managerial Economics, International Economic Relations	GE

Module of natural science competencies	BD	UC	Business mathematics 2	120	4	2	LO1	The discipline “Business Mathematics2” studies the fundamentals of probability theory and mathematical statistics, elements of linear programming and queuing theory. The purpose of studying the discipline is to teach students the basics of probability theory and mathematical statistics, the theory of queuing used in solving theoretical and practical problems in the field of economics, finance and business, developing skills in the use of mathematics - an important tool for economic analysis, organization and management, development among students logical and analytical thinking.	Basic School Education	Business Mathematics 1 Engineering Graphics and Computer Modeling, Information Technology in Logistics, Managerial Economics, International Economic Relations	GE
Professional module	BD	UC	Interaction of modes of transport	150	5	1	LO4, LO11	The discipline studies modes of transport, advantages and disadvantages, technical and operational indicators, forms knowledge and skills in the field of choosing a vehicle and the optimal method of transporting goods, masters methods of interaction of modes of transport, evaluates options for cargo transportation	Basic School Education	Transport management, International transport support, Freight forwarding, Multimodal transport systems	TSB
	BD	UC	Basics of logistics	150	5	1	LO1, LO3	The discipline studies the conceptual framework of logistics, functional areas, concepts, principles of optimization, prerequisites for the emergence and development of logistics systems to solve optimization problems in managing flows in a logistics system, an idea of logistics operations, processes and technologies of cargo delivery	Basic School Education	Transport management, Transport logistics, Production logistics	TSB

Professional module	BD	UC	Occupational safety and health	150	5	8	LO8	The discipline studies the direction of students' formation of knowledge and skills necessary to ensure safe working and living conditions. The legal and organizational foundations of occupational safety, methods of occupational risk assessment and management, means of individual and collective protection, emergency prevention, as well as measures to prevent injuries and occupational diseases are studied. Special attention is paid to the creation of a safe working environment, compliance with labor protection standards and requirements, as well as the formation of a safety culture in professional activities.	Environmentally Sustainable	Technologies Industrial (Pre-Graduation) Internship 2, Automation of Logistics Processes (RFID, IoT, Sensor Networks)	MTLS
	BD	UC	Transportation management on transport	120	4	2	LO3	The study of the principles of organization of transportation and management of the transportation process on various types of transport, the regulatory framework in the field of organization of transportation on transport. Formation of skills for the effective use of material and technical values and rolling stock, solving issues of technical means of transport, studying cargo and passenger flows, solving problems of the transportation process using information technology. When studying the discipline, interactive methods, solving case tasks, solving practical problems are used.	Interaction of transport modes	Transport support for international shipping, Freight forwarding, Multimodal transportation systems	TSB

Information Technology and Artificial Intelligence Module	BD	UC	Engineering graphics and computer modeling	120	4	1	LO2, LO5	The course covers the principles of technical drawing and engineering graphics, as well as modern 3D modeling methods using specialized software, aimed at developing skills in designing and visualizing technical objects, creating digital models and diagrams, drafting, modeling structures, and analyzing their parameters for solving engineering problems.	Basic school education	Container transportation and technologies, Multimodal transportation systems, Transport and logistics infrastructure	ICT
	BD	UC	Information technology in logistics	180	6	4	LO2, LO5	The discipline studies modern information technologies used for planning production processes and implementation in logistics activities, focused on improving intraoperative work, allowing to determine information support	Information and Communication Technologies, Python Programming Basics	Electronic Services in Manufacturing Logistics and Distribution Management, Digital Technologies in Supply Chain Management, WMS Systems and Digital Warehouse Management	TSB
	BD	UC	Python programming basics	90	3	2	LO2, LO5	The discipline studies the syntax and semantics of the Python language, algorithmization and program design, program structuring and solving problems related to artificial intelligence, learns machine learning, data processing and intelligent system development methods, and analyzes the use of AI in various fields, forming professional competencies in programming and the basics of artificial intelligence.	Information and Communication Technologies	Electronic Services in Manufacturing Logistics and Distribution Management, Digital Technologies in Supply Chain Management, WMS Systems and Digital Warehouse Management	ICT

Practice-oriented module	BD	UC	International economic relations	150	5	2	LO6	The discipline studies a wide range of issues related to the economies of different states, their interaction in the process of world trade, examines various theories of international trade, the role of investment in the economy of states, world financial markets, problems of globalisation and integration, as well as the economic policy of Kazakhstan on issues of non-economic regulation and competition in international markets.	Business Mathematics 1, Foreign Language	Green Language Economy and Sustainable Entrepreneurship, State Regulation of the Economy, Logistics of International Goods Movement	TSB
Professional module	PD	UC	Transport logistics	180	6	4	LO5, LO9	The discipline defines the main provisions of the management of Logistics Systems, activities in the field of Transportation, which include the entire range of operations and services for the delivery of products from the manufacturer to the consumer, the design and construction of logistics systems. Students learn to identify unproductive costs and costs.	Logistics Fundamentals, Interaction of Transport Modes Transport Management	Transport Support for International Shipments, Freight Forwarding, Multimodal Transportation Systems	TSB
	PD	UC	Global logistics	150	5	8	LO5, LO9	The discipline studies the terminology of global logistics, applies strategies and tactics for creating sustainable macrological systems, demonstrates the formation, management and optimization of intangible and material flows and operations, establishes partnerships, forms of contracts and agreements	International Economic Relations, Freight Forwarding, International Freight Logistics	Specialized transportation logistics, Warehouse logistics, International business communications, Customs clearance of cargo	TSB
	PD	UC	Container transportation and technologies	7	210	5	LO8, LO9	The discipline studies methods, technologies, quality and effectiveness of cargo delivery in containers, commercial and legal regulation of container transportation in transport, economics, rationing and automation of container transportation. freight forwarding services for container transportation and principles of organization of piggyback transportation	Engineering graphics and computer modeling, Transportation management, Transport logistics	International Freight Forwarding, Multimodal Transportation Systems, Transport and Logistics Infrastructure	TSB

Professional module	PD	UC	Logistics of international commodity movement	150	5	6	LO5, LO11	The discipline studies various international commodity movement systems, export-import operations in logistics systems, forms systemically basic methods, a set of actions aimed at supporting all processes with information and analytical actions to make the right management decisions in international trade	Transport logistics, International economic relations, State regulation of the economy	Managerial Economics, International Transport Support, Freight Forwarding, Multimodal Transport Systems, Global Logistics	TSB
	PD	UC	Logistics of specialized transportation	150	5	9	LO8, LO9	The discipline studies the specifics of specialized transportation (heavy, oversized, general, dangerous and perishable goods), conditions for placing and securing goods on rolling stock, organization of loading and unloading operations and warehouse operations, storage conditions and transportation of dangerous goods of all classes, forms theoretical foundations and practical knowledge in the field of transportation of perishable goods in wagons and containers	Interaction of Transport Modes, Transport Management, Transport Logistics	Final Certification	TSB
Information Technology and Artificial Intelligence Module	PD	UC	Digital technologies in supply chain management	180	6	7	LO2, LO10	The discipline forms an understanding of the methodological aspects of digital transformation of supply chains, examines the prospects and problems of using digital technologies in logistics such as: blockchain, Internet things, augmented reality, cloud services, Big data analytics technologies, robots, drones, unmanned vehicles, 3D printing, attention is paid to the issues of building digital twins, modeling and reengineering business processes in supply chains	Electronic services in the management of production logistics and distribution, Information and communication technologies	Multimodal transportation systems, transport and logistics infrastructure, WMS systems and digital warehouse management	TSB

Practice-oriented module	PD	UC	Entrepreneurship and Startup	180	6	5	LO3, LO8	The discipline examines the features of the creation and development of startups, the parameters of the business model, external financing of a startup, the typical distribution of investment costs. He studies the concept of "disruptive innovation" K. Christensen, optimization of costs for the team and personnel, the technique of developing a work schedule for a startup project using MS Project.	Business Mathematics 1, 2, Transportation Management	Fundamentals of scientific research, foreign economic activity, logistics of international goods movement	TSB
	PD	UC	Warehouse logistics	150	5	9	LO8, LO9	The discipline studies the basics of warehousing, classification and types of warehouses, technological and logistical processes in a warehouse, types of product promotion systems and warehouse documentation, principles, systems, models and methods of inventory management in a warehouse	Electronic services in the management of production logistics and distribution, Transport management, Transport logistics	Final certification	TSB
	PD	UC	International customs law	150	5	5	LO7, LO11	The course studies the aspects of international law that regulate relations arising in the process of moving goods across national borders, as well as issues related to customs procedures, tariffs, taxation, measures to protect the domestic market, and the rights and duties of participants in foreign trade. It develops knowledge of international agreements and standards in the field of customs law and their application	International Economic Relations, Transport Logistics, State Regulation of the Economy	International transportation support, freight forwarding, multimodal transportation systems, global logistics, customs clearance	TSB

Practice-oriented module	PD	UC	Production practice 1	150	5	6	LO1 - LO12	The main objectives of industrial practice are: consolidation of theoretical knowledge and practical skills according to the chosen educational program in production conditions, acquisition of organizational work experience, obtaining a working specialty, formation of practical skills and competencies in the process of mastering the bachelor's program.	Interaction of transport modes, Transport management, Transport logistics International economic relations, Government regulation of the economy, transport logistics	International Business Communications, International Transport Support, Freight Forwarding, Multimodal Transport Systems, Global Logistics, Customs Clearance, Digital Technologies in Supply Chain Management	TSB
	PD	UC	Industrial (Pre-graduation) Practice 2	150	5	9	LO1 - LO12	The purpose of the practice for bachelors is to ensure the relationship between the theoretical knowledge gained during the assimilation of the chosen educational program and practical activities. The objectives of this practice are to consolidate and deepen the theoretical knowledge gained by students in the learning process, to collect information for writing a final qualifying work, to study best practices at the enterprise, as well as to gain experience in independent research, mastering a variety of scientific methods. It is conducted in the practice bases at enterprises according to this educational program.	International Economic Relations, State Regulation of the Economy, International Business Communications, Transport Support for International Transportation, Freight Forwarding, Multimodal Transportation Systems, Global Logistics, Digital Technologies in CM	Final certification	TSB

Head of the Department of Transport Services and Business

Mussaliyeva R.D.