

# **Instructive Cultivation Plan for the Program of Logistics**

## **Management**

### **(Grade 2021)**

**Course Code: 120601**

#### **1. Orientation**

Based on Shanghai, facing the whole country and serving the society, this is an applied undergraduate program to cultivate management and technical talents with high quality, strong ability, innovative and entrepreneurial spirit in international logistics, chemical logistics and intelligent logistics.

#### **2. Cultivation Objectives**

##### **2.1 General Objective**

This program aims to cultivate applied technical and management talents with basic knowledge of modern logistics management and practical ability of logistics engineering. The students will get familiar with the logistics management knowledge, skills, laws and regulations in the field of international logistics, chemicals logistics, e-commerce logistics and others, qualify for purchasing management, transportation management, warehouse distribution management, international logistics, chemicals logistics, e-commerce logistics, logistics project planning and operation.

##### **2.2 Cultivation Value**

This program cultivates all-round talents with both political integrity and professional competence, who are patriotic, have good scientific accomplishment, integrity quality and social responsibility. They will become a professional with both integrity and ability as well as an international view and cultural integration ability.

#### **3. Requirement for Graduation**

##### **3.1 Requirement on Quality**

3.1.1 Have proper moral, humanistic, scientific and professional qualities.

3.1.2 Have high meticulousness quality, business integrity and credit quality, hard-working quality.

3.1.3 Have good interpersonal communication quality and teamwork spirit.

##### **3.2 Requirement on Knowledge**

3.2.1 Firmly master the basic theories and professional knowledge related to logistics economy, logistics management and logistics technology.

3.2.2 Master the professional theories and specialized methods of management and scientific engineering programs, be able to combine theory with practice, solve practical problems.

3.2.3 Understand the rapid development of logistics industry, pay attention to the technological innovation and business model innovation of logistics industry, timely master the corresponding

theoretical and technical knowledge.

### **3.3 Requirement on Ability**

3.3.1 Have the ability to independently acquire the knowledge related to this program.

3.3.2 Have the ability to integrate the knowledge acquired and practice, and apply it to logistics practice flexibly.

3.3.3 Initially have the ability to carry out scientific researches by using the productive thinking, and the creativity, innovation and entrepreneurship ability based on multidisciplinary knowledge integration.

3.3.4 Have good ability of foreign language listening, speaking, reading and writing.

### **3.4 Professional Certificate Requirement**

3.4.1 Shanghai Municipal Human Resources and Social Security Bureau, Shanghai Occupational Skill Testing Authority: Logistician (to be determined)

3.4.2 China International Freight Forwarders Association: Professional Certificate of International Freight Forwarder

3.4.3 The Chartered Institute of Logistics & Transport International (ILT): Certificate for Supervisory Manager in Logistics (level 2)

### **3.5 Suitable Posts**

3.5.1 Technical and management posts in logistics enterprises and in the logistics department of relevant enterprises, including procurement, transportation, warehousing, distribution, logistics information management, logistics marketing, logistics system planning and design, logistics project operation and management, etc.

## **4. Schooling System**

Four-year undergraduate education

## **5. Length of Study**

Generally four years. The shortest duration is not less than three years, and the longest is not more than six years.

## **6. Requirements for Graduation and Degree Conferring**

Minimum Credits of Curriculum (required courses, practical trainings & extracurricular classes): 151.

Degrees Awarded: Bachelor of Management

## **7. Disciplines**

Economics, Management, Industrial Engineering

## **8. Core Courses**

### **8.1 Western Economics**

Course introduction: The development of socialism market economy requires us to understand and master the basic knowledge of modern economics. Western economics summarizes the laws and

features of market economic activity theoretically, especially the operational status of economy in market system and the economic behaviors of government, manufacturers and consumers, propose some management methods of macro and micro economy, and provide the basic tools used by the western economists to analyze problems. Through the course, the students are able to understand the basic contents and property of market economy so as to have a complete and systematic understanding of the basic theories of modern economics.

Value guidance: Research and study the law of national macroeconomic operation, adhere to the socialist economic system with Chinese characteristics, pursue efficiency and fairness, and realize the common prosperity of the whole society.

## **8.2 Management**

Course introduction: This course mainly instructs the basic theory and methods of management. Through the course, the students are able to master the basic functions, theory and methods of management, laying a foundation for the further study of professional courses. During the learning process, the students are required to understand the development of management thoughts, the basic procedures and theory of planning, the procedure and methods of effective decision, the basic mode of organizational structure and the basic theory of organization design, the basic framework of HR management, the basic theory of motivation and basic skills of communication, the basic theory and methods of control, the leadership work and others.

Value guidance: Explore and learn the management theories and methods adapted to Chinese characteristics, improve the management of enterprises, and make Chinese enterprises bigger and stronger.

## **8.3 Applied Statistics**

Course introduction: The course mainly instructs the basic theory and methods of statistics. Through learning the statistic working process and methods like statistic investigation, statistic collection and statistic analysis, the course lay a foundation for the learning of students' learning of professional courses. The basic requirements of the course are as follows: understand the research objects of statistics and its basic concept; master the basic methods of statistic investigation, master the statistic grouping and collection, skillfully master the concept and calculation of total amount index, relative index and average index, get familiar with the application of those comprehensive indexes; master the main analysis indicators of dynamic numerical arrays; master the compiling methods and factor analysis of comprehensive indicators; understand the sampling inference, correlation and regression analysis methods.

Value guidance: Set up the idea of respecting facts, make decisions through analyzing and explore a large number of data, improve the scientificity of decision-making.

## **8.4 Logistics Engineering**

Course introduction: This course studies the stress analysis, system of plane intercrossing forces, couple system, arbitrary force system in statics, the stretching and pressing, cutting and squeezing, twisting, bending internal force, bending stress, bending deformation and combined deformation in material mechanicals. Through the course, the students are required to master the concept of force, force analysis of component, deformation analysis of object and stress computation of component, providing the most basic mechanical theory and algorithm for the solution of strength,

stiffness and stableness problem of components and laying a foundation for the learning of other professional courses and work in the field of logistics management in the future.

Value guidance: set up the idea of rules and regulations through the study of scientific rules and natural laws.

### **8.5 Logistics Operational Research**

Course introduction: The course contents include graph theory and Internet analysis, linear planning, integer planning, objective planning, dynamic planning, queuing system, decision analysis and methods and other basic contents of operational research, providing necessary mathematical planning methods for the quantitative optimization, analyzing logistics system and planning of logistics network. For simple general problems, the course gives a proving process in an easily understandable and acceptable; for relatively complex problems, the course uses direct explanation to replace the complicated and abstract proving process.

Value guidance: Look for the internal law of affairs, improve the ability to deal with problems by scientific means and methods.

### **8.6 Purchasing and Supply Chain Management**

Course introduction: The course contents include the challenges to purchasing and supply management, objectives and organization of effective purchasing and supply management, purchasing strategy, purchasing and supply business procedures, plans, organization and controlling of purchasing and supply, relationship of vendors and suppliers and the supply chains, international purchasing, public purchasing, purchasing of capital assets and services, the application of information technology in the purchasing and supply management.

Value guidance: Follow the procedure requirements when processing affairs, combat extravagance and waste, save costs for the company, and eliminate commercial bribery and commercial fraud.

### **8.7 Transportation Management**

Course introduction: The course researches on the operation of different transportation methods and comprehensive traffic and transportation system, introduces the practical operation of different traffic and transportations, main facility of traffic and transportation system, traffic and transportation system planning, theory and methods of traffic and transportation organizational management and controlling. The course contents include: basic features of different traffic and transportation mode, the main freight types and modes, comprehensive transportation system planning, internal transportation organization and management of the enterprise, transportation organization and signal control of urban transportation system, advanced transportation system and others.

Value guidance: Constantly explore and research techniques and methods to improve the efficiency of transportation, enhance the transportation science and technology capability of our country, and strive for our transportation science and technology to be the forefront of the world.

### **8.8 Warehouse and Distribution Management**

Course introduction: The course is a professional course for the program of logistics management, researching on the methods, theory and modes of commodity storage, the systematic composition of distribution center and its operational management analysis methods or modes. Through this

course, the students are required to master the acceptance, maintenance, warehouse-out technology, management technology of inventory control, the operation of different systems and using managements of facilities in the main working procedures of distribution center, laying a good foundation for the learning of other professional courses and work in the field of logistics management in the future.

Value guidance: Explore and learn the management theories and methods of warehousing and distribution, improve the management of enterprises, and make Chinese enterprises bigger and stronger.

### **8.9 International Freight Forwarding**

Course introduction: This course systematically introduces the basic theory and contents of international freight forwarding, and explains the operation and skills of international freight forwarding. It also systematically introduces and analyzes the contents and operational skills of international marine forwarding, international air freight forwarding and international land transportation forwarding.

Value guidance: Follow international business rules and business practices, and constantly develop and improve friendly and cooperative relations between China and other countries around the world.

### **8.10 Logistics Information Management**

Course introduction: Based on the modern information management technology and other related advanced theory or methods, with the rapid development of logistics, the course systematically introduces the concept, structure of logistics management information system and the related logistics information technology like automatic identification technology, GIS and GPS, decision analysis technology, describes the process of logistics information system's development and project management, and explains on the influences of information storage technology, information safety and controlling technology on the logistics management information system.

Value guidance: Constantly explore and study logistics information technology, make a contribution to science and technology to change the world.

## **9. Practical Training**

Logistics Engineering Training, Cognitive Practice of Logistics, Practice of Basic Logistics Operations, Logistics Marketing Planning, Integrated Capacity Practice of Logistics, Practice for Operation of Logistics Projects (International Logistics, Chemical Logistics, Intelligent Logistics), Graduation Internship and Graduation Design (Thesis).

**10. Course Structure and Course Hours (excluding extracurricular classes)**

<b>Category</b>	<b>Total Credits</b>	<b>%</b>	<b>Total Course Hours</b>	<b>Theory Learning</b>	<b>Practical Training</b>
<b>General Education</b>	46.5	31	912	844	68
<b>Basic Course</b>	21	14	336	324	12
<b>Professional Course</b>	41	28	656	524	132
<b>Practical Training</b>	31.5	21	904	0	904
<b>General Course</b>	10	7	160	160	0
<b>Total</b>	<b>150</b>	<b>100</b>	<b>2968</b>	<b>1852</b>	<b>1116</b>
<b>Theory : Practice (%)</b>	63:37				

### 11. Teaching Schedule (1)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hour	Theory Learning	Practical Training	Semester
General Education	Required	School of Marxism	b1080001	Basic Theory of Marxism	test	3	48	42	6	autumn 1
	Required	School of Marxism	b1080003	Morality and Laws	non-test	3	48	42	6	autumn 1
	Required	School of Marxism	b1080006	Outline of Modern Chinese History	non-test	3	48	42	6	spring 1
	Required	School of Marxism	b1080004	Introduction to the Thought of Mao Zedong and Theories of Socialism with Chinese Characteristics I	test	3	48	42	6	autumn 2
	Required	School of Marxism	b1080007	Introduction to the Thought of Mao Zedong and Theories of Socialism with Chinese Characteristics II	test	2	32	28	4	spring 2
	Required	School of Marxism	-----	Situation and Policy (Module 1-4)	non-test	2	32	28	4	autumn 1 - spring 2
	Required	School of Marxism	b1080008	Labor Education A	non-test	0.5	16	16		spring 1
	Required	College of Arts and Sciences	b1020082	Advanced Mathematics B1	test	4	64	64		autumn 1
	Required	College of Arts and Sciences	b1020083	Advanced Mathematics B2	test	2	32	32		spring 1
	Required	College of Arts and Sciences	b1020012	Linear Algebra	test	2	32	32		autumn 2
	Required	College of Arts and Sciences	b1020013	Probability Theory and Mathematical Statistics	test	2	32	32		autumn 2
	Required	College of Arts and Sciences	b1020018	College Chinese	non-test	2	32	32		autumn 1
	Required	Department of Physical Education	-----	PE I-VI	non-test	3	160	160		autumn 1 - autumn 4
	Required	Other	g1110003	Military Skills	non-test	0.5	2W			autumn 1
	Required	College of Arts and Sciences	g1110002	Military Theories	non-test	0.5	32	32		spring 1
	Required	Engineering Training Center	g1090001	Basic Engineering Training	non-test	2	32		32	spring 1
	Required	College of Arts and Sciences	g1020035	College Chemistry	non-test	1	32	28	4	autumn 1
	Required	College of Arts and Sciences	g1020086	College Physics	non-test	1	32	32		spring 1
	* College English (Selective, 1 module required, 10 credits)	Module A	b1020003	General English III	test	3	48	48		autumn 1
			b1020004	General English IV	test	3	48	48		spring 1
			b1020005	General Academic English A	test	2	32	32		autumn 2
		-----	English Extension	non-test	2	32	32		spring 2	
		Module B	b1020002	General English II	test	3	48	48		autumn 1
b1020003			General English III	test	3	48	48		spring 1	
b1020006			General Academic English B	test	2	32	32		autumn 2	
-----			English Extension	non-test	2	32	32		spring 2	
Module C		b1020001	General English I	test	4	64	64		autumn 1	
		b1020002	General English II	test	3	48	48		spring 1	
	b1020003	General English III	test	3	48	48		autumn 2		
* College	College of Arts and Sciences	b1020040	General German I	test	3	48	48		autumn 1	

	German	College of Arts and Sciences	b1020041	General German II	test	3	48	48		spring 1
		College of Arts and Sciences	b1020042	General German III	test	4	64	64		autumn 2
	* College Japanese	College of Arts and Sciences	b1020077	General Japanese I	test	3	48	48		autumn 1
		College of Arts and Sciences	b1020078	General Japanese II	test	3	48	48		spring 1
		College of Arts and Sciences	b1020079	General Japanese III	test	4	64	64		autumn 2
<b>Sub-total (General Education)</b>						<b>46.5</b>	<b>912</b>	<b>844</b>	<b>68</b>	
<b>General Course</b>	Required	Art Education Center	b0----	Aesthetic Education	non-test	2	32	32		autumn, spring
	Selective	Each College	b0----	Social Sciences and Humanities Literacy (4 credits) Natural Science and Technological Innovation (4 credits) Public Arts (2 credits)	non-test	4	64	64		autumn, spring
				Natural Science and Technological Innovation	non-test	4	64	64		autumn, spring
<b>Sub-total (General Course)</b>						<b>10</b>	<b>160</b>	<b>160</b>		

(\*Notes: A total of 10 credits for the First Foreign Language, including College English, College German and College Japanese, students may choose one from the above-mentioned three foreign language according to their own needs; students, who choose College English as their First Foreign Language, shall select one module from Module A, Module B and Module C to learn.)



### 11. Teaching Schedule (2)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hour	Theory Learning	Practical Training	Semester
Basic Course	Required	School of Economics and Management	b2030159	Applied Statistics	test	3	48	40	8	autumn 3
	Required	School of Economics and Management	b2030037	Management	test	3	48	48		spring 1
	Required	School of Economics and Management	b2030145	Western Economics	test	4	64	64		autumn 2
	Required	School of Economics and Management	b2030060	Accounting Principles	test	3	48	48		autumn 1
	Required	School of Economics and Management	b2030163	Operations Management	test	2	32	28	4	autumn 2
	Required	School of Economics and Management	b2030082	Economic Law	test	3	48	48		spring 1
	Required	School of Economics and Management	b2030187	Theory and Practice of International Trade	test	3	48	48		spring 2
<b>Sub-total (Basic Course)</b>						<b>21</b>	<b>336</b>	<b>324</b>	<b>12</b>	
Professional Course	Required	School of Economics and Management	b2030011	Purchasing and Supply Chain Management	test	3	48	36	12	spring 2
	Required	School of Economics and Management	b2030361	Transportation Management	test	4	64	52	12	spring 2
	Required	School of Economics and Management	b2030013	Warehouse and Distribution Management	test	3	48	36	12	autumn 3
	Required	School of Economics and Management	b2030362	Logistics Information Management	test	3	48	36	12	autumn 3
	Required	School of Economics and Management	b2030144	Logistics English	test	2	32	24	8	autumn 4
	Required	School of Economics and Management	b2030363	Logistics Operational Research	test	3	48	40	8	spring 2
	Required	School of Economics and Management	b2030364	Logistics Engineering	test	3	48	40	8	spring 2
	Required	School of Economics and Management	b2030365	International Freight Forwarding	test	3	48	32	16	spring 3
	Required	School of Economics and Management	b2030354	Enterprise Logistics Management	test	3	48	36	12	autumn 3
	Required	School of Economics and Management	b2030136	Logistics Geography	non-test	2	32	28	4	autumn 2
	Required	School of Economics and Management	b2030137	Logistics Regulations	non-test	2	32	28	4	autumn 4
	Selective (2 credits)	School of Economics and Management	b2030209	Quality Control	non-test	2	32	28	4	spring 3
		School of Economics and Management	b2030210	Service Supply Chain	non-test	2	32	28	4	spring 3
	<b>Sub-total (Required Professional Course)</b>						<b>35</b>	<b>528</b>	<b>412</b>	<b>116</b>
* Selective (8 credits)	Module A	b2030027	Multimodal Transport	non-test	2	32	28	4	autumn 3	
		b2030395	Reverse Logistics Management	non-test	2	32	28	4	autumn 4	
		b2030138	Logistics Risk and Insurance	non-test	2	32	28	4	autumn 4	
		b2030355	Cross-border E-commerce Logistics	non-test	2	32	28	4	autumn 4	
	Module B	b2030056	Basic Chemical Engineering	non-test	2	32	28	4	autumn 3	

		b2030057	Packaging, Transportation and Warehousing Management for Chemical Products	non-test	2	32	28	4	autumn 4
		b2030134	Logistics Laws, Regulations and Standards for Dangerous Goods	test	2	32	28	4	autumn 4
		b2030059	Safety Management of Chemical Product Logistics System	non-test	2	32	28	4	autumn 4
	Module C	b2030356	Big Data and Cloud Computing	test	2	32	28	4	autumn 3
		b2030357	Internet of Things	non-test	2	32	28	4	autumn 4
		b2030358	Intelligent Logistics System	non-test	2	32	28	4	autumn 4
		b2030359	Supply Chain Finance	non-test	2	32	28	4	autumn 4
<b>Sub-total (Selective Professional Course)</b>					<b>8</b>	<b>128</b>	<b>112</b>	<b>14</b>	
<b>Sub-total (Professional Course)</b>					<b>41</b>	<b>656</b>	<b>524</b>	<b>132</b>	

### 11. Teaching Schedule (3)

Category	Type	Provided by	Course Code	Course Name	Assessment	Credit	Course Hour	Theory Learning	Practical Training	Semester	
Practical Training	Required	School of Economics and Management	b4000030	Innovation and Entrepreneurship of Logistics Management	non-test	2	48		48	spring 3	
	Required	School of Economics and Management	b4030057	Practice of Business Etiquette and Business Communication	non-test	1	24		24	summer 1	
	Required	School of Economics and Management	b4030073	Cognitive Practice of Logistics	non-test	1	24		24	summer 1	
	Required	School of Economics and Management	b4030186	Cognitive Practice of Goods, Packaging and Documents	non-test	2	48		48	summer 1	
	Required	School of Economics and Management	b4030151	Practice of Virtual Business and Social Environment (VBSE)	non-test	1	24		24	summer 1	
	Required	School of Economics and Management	b4030071	Cognitive Practice of Logistics Facilities, Equipment and Sites	non-test	1	24		24	summer 2	
	Required	School of Economics and Management	b4030068	Practice of Basic Logistics Operations	non-test	3	72		72	summer 2	
	Required	School of Economics and Management	b4030070	Practice for the Integrated Application of Logistics Technologies	non-test	1	24		24	summer 2	
	Required	School of Economics and Management	b4030072	Logistics Marketing Planning	non-test	3	72		72	autumn 3	
	Required	School of Economics and Management	b4030207	Logistics project bidding practice	non-test	3	72		72	summer 3	
	Required	School of Economics and Management	b4030180	Design and Planning of Logistics Systems	non-test	3	72		72	spring 3	
	Required	School of Economics and Management	b4030200	Labor Education B	non-test	0.5	16		16	spring 3	
	Required	School of Economics and Management	b4030137	Graduation Internship and Graduation Design (Thesis) of Logistics Management	non-test	6	288		288	spring 4	
	<b>Sub-total (Required Practical Training)</b>						<b>27.5</b>	<b>808</b>		<b>808</b>	
	* Selective (4 credits)	Module A	b4030208	b4030208	Free Trade Zone and Bonded Logistics	non-test	2	48		48	Spring 3
b4030029			b4030029	Practice for Operation of International Logistics Projects	non-test	1	24		24	Summer 3	
b4030028			b4030028	Practice for Design of International Logistics Projects	non-test	1	24		24	Summer 3	
Module B		b4030182	b4030182	Chemical Logistics Services and Operations	non-test	2	48		48	Spring 3	
		b4030031	b4030031	Practice for Operation of Chemical Logistics Projects	non-test	1	24		24	Summer 3	
		b4030030	b4030030	Practice for Design of Chemical Logistics Projects	non-test	1	24		24	Summer 3	
Module C		b4030183	b4030183	Logistics Intelligent Facilities, Equipment and Applications	non-test	2	48		48	Spring 3	
		b4030184	b4030184	Practice for Operation of Intelligent Logistics Projects	non-test	1	24		24	Summer 3	
	b4030185	b4030185	Practice for Design of Intelligent Logistics Projects	non-test	1	24		24	Summer 3		
<b>Sub-total (Selective Practical Training)</b>						<b>4</b>	<b>96</b>		<b>96</b>		
<b>Sub-total (Practical Training)</b>						<b>31.5</b>	<b>904</b>		<b>904</b>		
Extracurric	Required	Other	b5110001	Extracurricular Classes	non-test	1				Autumn,	

ular Class										Spring, Summer
<b>Total</b>						<b>151</b>	<b>2968</b>	<b>1852</b>	<b>1116</b>	

**\*Guidance for the selective modules of professional course and practical training:**

There are different modules for professional course to be selected according to different ability requirements, students must select one module to learn and achieve the credits required by the module. The selective modules of practice training must be selected according to the corresponding module of professional course.

Module A: International Logistics

This module focuses on learning International Freight Forwarding, Bonded Logistics, Multimodal Transport and other relevant courses, and training technical talents who are familiar with international logistics business processes and operational knowledge, have the skills in international procurement, international transportation and international distribution, and are able to carry out the operation and management of international logistics projects.

Module B: Chemical Logistics

This module focuses on learning Basic Chemical Engineering, Chemical Logistics Services and Operations, Transportation Management for Chemical Products, Logistics Laws, Regulations and Standards for Dangerous Goods and other relevant courses, and training technical talents who are familiar with chemical logistics business processes and operational knowledge, have the skills in dangerous chemicals transportation, warehousing, distribution and safety management, and are able to carry out the operation and management of chemical logistics projects.

Module C: Intelligent Logistics

This module focuses on learning Big Data and Cloud Computing, Internet of Things, Intelligent Logistics System and other relevant courses, and training technical talents who are familiar with intelligent logistics business processes and operational knowledge, have the skills in intelligent logistics equipment operation and intelligent logistics scheme design, and are able to carry out the operation and management of intelligent logistics projects.

### 12. Prerequisite for Course Study

No.	Course Name	Prerequisite Courses	No.	Course Name	Prerequisite Courses
1	Warehouse and Distribution Management	Logistics Geography	5	Logistics Operational Research	College Mathematics
		Logistics Engineering			Probability Theory and Mathematical Statistics
2	International Freight Forwarding	Theory and Practice of International Trade	6	Logistics Regulations	Economic Law
		Transportation Management			Transportation Management
					Warehouse and Distribution Management
3	Logistics English	Purchasing and Supply Chain Management	7	Dangerous Chemical Logistics Services and Operations	Basic Chemical Engineering
		Transportation Management			Packaging and Transportation of Dangerous Chemicals
		Warehouse and Distribution Management			
4	Logistics Planning and Design	Purchasing and Supply Chain Management	8		
		Transportation Management			
		Warehouse and Distribution Management			
		Logistics Information Management			

### 13. Extracurricular Class

Through taking extracurricular classes, students are encouraged to take part in academic lectures, social practice activities, campus cultural and sports activities, innovative and entrepreneurial activities, voluntary activities, etc. to improve their social adaptability and enhance the competitiveness in the job market. Details are specified in Students' Manual.