

## 物流管理专业本科培养计划 (物流系统工程方向)

### Undergraduate Program for Specialty in Logistics System Engineering

#### 一、培养目标

##### I. Educational Objectives

以“通识教育基础上的宽口径教育”为模式，培养具有良好的思想品德和文化修养、专业理论基础宽广扎实、知识结构合理、富于现代科学创新意识，在物流服务领域从事组织管理、工程应用、科技开发与理论研究的高素质复合型人才。

The program which takes the education model of wide scope aims to nurture high-quality talents with sound and wide professional knowledge, rational knowledge framework, and modern innovative thought. Students can pursue their careers of management, engineering application, technology development and theory research in the field of logistic system engineering.

#### 二、基本规格要求

##### II. Skills Profile

要求学生系统、坚实地掌握物流系统工程中信息获取与处理技术、系统分析与集成、管理与决策等方面的基本理论和实践技能。毕业生应取得以下几方面知识和能力：

1. 具备较高的人文社会科学修养、扎实的自然科学基础和工程应用技术的综合素质。具有有效的交际能力，多学科队伍中的影响和作用力，对全球工程科学和技术影响的理解能力以及对自己所处领域中重点和关键问题的敏感性；
2. 掌握扎实的系统科学、管理科学和信息技术基础知识，具有较强的系统分析能力；
3. 掌握一门外国语，具有听说能力、阅读专业文献的能力以及一定的科技论文写作能力；
4. 具有获取新知识和创新的能力；
5. 在物流系统工程中的物流系统规划、物流组织管理、物流信息化与自动化等方面具有较强的工程应用、技术开发与科学研究能力。

Students of this program are expected to gain:

1. High quality in humanities, social science, natural science and practical engineering technology, ability of efficient communication, ability to influence on the multi-discipline group, understanding of international engineering science and technology, and sensitivity to the important and key problems in the field;
2. Ability of system analysis and basic knowledge of system science, management science and information technology;
3. Proficiency of a foreign language and the ability to listen, speak and read professional literature and documents in that language;
4. Ability of gaining new knowledge and sense of innovation; and
5. Ability of engineering application, technology development and scientific research in the field of logistic system planning, logistics management, logistics information and automation.

#### 三、培养特色

##### III. Program Features

1. 构建公共基础教学平台，宽口径、厚基础、高效率培养物流系统工程人才；

2. 依托学校信息学院、管理学院、交通学院等院系的优势学科，培养具有工科与管理背景的复合型物流系统工程人才；
3. 依托大型工程生产与物流等实习基地，注重实践能力的培养；
4. 寻求与海外、港台合作办学；
5. 强化物流系统工程中应用信息技术的教学与培训。

1. This program builds a platform of common basic education, and forms an education model of “wide scope, sound grounding, and high proficiency”;

2. Depending on HUST’s discipline advantage of School of Information Technology and Engineering, School of Management, School of Science and Technology, this program nurtures talents with elementary knowledge of engineering and management discipline;

3. Depending on the big logistic practice base, we pay much attention to the training of practical ability;

4. This program seeks to cooperate with overseas universities; and

5. This program strengthens the education and training of applied information technology in the field of logistic system engineering.

#### 四、主干学科

#### IV. Major Disciplines

控制科学与工程Control Science and Engineering、管理科学与工程Management Science and Engineering、计算机科学与技术Computer Science and Technology、交通运输工程Traffic and Transportation Engineering

#### 五、学制与学位

#### V. Length of Schooling and Degree

修业年限：四年

Duration: 4 Years

授予学位：工学学士

Degrees Conferred: Bachelor of Engineering

#### 六、学时与学分

#### VI. Hours/Credits

完成学业最低课内学分（含课程体系与集中性实践教学环节）要求：190

Minimum Credits of Curricular(Comprising course system and intensified internship practical training): 190

完成学业最低课外学分要求：5

Minimum Extracurricular Credits: 5

#### 1. 课程体系学时与学分

Hours/Credits of Course System

课程类别		课程性质	学时/学分	占课程体系学分比例（%）
通识教育基础课程		必修	1168/69	43.7
		选修	160/10	6.3
学科基础课程	学科大类基础课程	必修	416/26	16.5
	学科专业基础课程	必修	536/33.5	21.2
专业课程	专业核心课程	必修	192/12	7.6
	专业方向课程	选修	120/7.5	4.7
合计			2592/158	100

华中科技大学本科专业人才培养计划

Course Classified		Course Nature	Hrs/Crs	Percentage (%)
Basic Courses in General Education		Required	1168/69	43.7
		Elective	160/10	6.3
Basic Courses in Discipline	Basic Courses in General Discipline	Required	416/26	16.5
	Basic Courses in Discipline	Required	536/33.5	21.2
Courses in Specialty	Common Core Courses	Required	192/12	7.6
	Specialty-Oriented Courses	Elective	120/7.5	4.7
Total			2592/158	100

2. 集中性实践教学环节周数与学分

Weeks/Credits of Intensified Internship and Practical Training

实践教学环节名称	课程性质	周数/学分	占实践教学环节学分比例 (%)
军事训练	必修	2/2	6.25
电工实习	必修	2/2	6.25
生产实习 (社会实践)	必修	2/2	6.25
课程设计	必修	10/10	31.25
毕业设计 (论文)		16/16	50
合计		32/32	100

Internship & Practical Training	Course Nature	Weeks/Credits	Percentage (%)
Military Training	Required	2/2	6.25
Electrical Engineering Practice	Required	2/2	6.25
Engineering Internship (Social Practice)	Required	2/2	6.25
Course Project	Required	10/10	31.25
Undergraduate Thesis	Required	16/16	50
Total		32/32	100

3. 课外学分

Extracurricular Credits

序号	课外活动名称	课外活动和社会实践的要求		课外学分
1	社会实践活动	提交社会调查报告, 通过答辩者		1
		个人被校团委或团省委评为社会实践活动积极分子者, 集体被校团委或团省委评为优秀社会实践队者		2
2	英语及计算机考试	全国大学英语六级考试	考试成绩达到学校要求者	2
		托福考试	达 90 分以上者	3
		雅思考试	达 6.5 分以上者	3
		GRE 考试	达 1350 分以上者	3
		全国计算机等级考试	获二级以上证书者	2
		全国计算机软件资格、水平考试	获程序员证书者	2
			获高级程序员证书者	3
获系统分析员证书者	4			
3	校级	获一等奖者	3	
		获二等奖者	2	
		获三等奖者	1	
	省级	获一等奖者	4	
		获二等奖者	3	
		获三等奖者	2	
	全国	获一等奖者	6	
		获二等奖者	4	
		获三等奖者	3	

续表

序号	课外活动名称	课外活动和社会实践的要求		课外学分
4	论文	在全国性刊物发表论文	每篇论文	2~3
5	科研	视参与科研项目时间与科研能力	每项	1~3
6	实验	视创新情况	每项	1~3

注：参加校体育运动会获第一名、第二名者与校级一等奖等同，获第三名至第五名者与校级二等奖等同，获第六至第八名者与校级三等奖等同。

No.	Extracurricular Activities and Social Practice	Requirements		Extracurricular Credits
1	Activities of Social Practice	Submit report and pass oral defense		1
		Entitled as Activist by the Communist Youth League of HUST or Hubei Province; Membership of the group which is entitled as Excellent Social Practice Group by the Communist Youth League of HUST or Hubei Province		2
2	Examinations in English and Computer	CET-6	Students whose Band-6 exam scores accord our requirements	2
		TOEFL	90 Points or Higher	3
		IELTS	6.5 Points or Higher	3
		GRE	1350 Points or Higher	3
		National Computer Rank Examination	Win certificate of Band-2 or higher	2
		National Computer Software Qualification	Win certificate of programmer	2
			Win certificate of Advanced Programmer	3
Win certificate of System Analyst	4			
3	University Level	Win first prize	3	
		Win second prize	2	
		Win third prize	1	
	Provincial Level	Win first prize	4	
		Win second prize	3	
		Win third prize	2	
	National Level	Win first prize	6	
		Win second prize	4	
		Win third prize	3	
4	Thesis	Those whose thesis appears in national publications	Per piece	2~3
5	Scientific Research	Depending on both the time spent in and ability demonstrated in scientific research project	Each item	1~3
6	Experiments	Depending on innovative extent	Each item	1~3

Note: In HUST Sports Meeting, the first and the second prize, the third to the fifth prize, and the sixth prize to the eighth prize are deemed respectively the first prize, the second prize and the third prize of university level.

## 七、主要课程

### VII. Main Courses in Specialty

数据结构 Data Structure、运筹学 Operations Research、现代物流导论 Introduction to Modern

Logistics、微机原理 Microcomputer Theory、控制原理 Control Theory、管理信息系统 Management Information System、系统工程 Systems Engineering、企业生产与物流管理 Production and Logistics Management、库存管理 Inventory Management、物流装备及自动化 Logistics Equipment and Automation System、物流信息技术 Logistics Information Technology、现代物流配送 Modern Distribution、物流服务运作管理 Operations Management of Logistics Service、采购与供应管理 Purchase & Supply Managment、物流系统规划 Logistics System Planning、电子商务 Electronic Business

八、主要实践教学环节（含专业实验）

VIII. Main Practice and Teaching (Including Experiment)

课程设计 Course Project、生产实习 Engineering Internship、毕业设计 Undergraduate Thesis

九、教学进程计划表

IX. Table of Teaching Schedule

院（系）：控制科学与工程系

专业：物流管理（物流系统工程方向）

School (Department): Department of Control Science and Engineering

Specialty: Logistics System Engineering

课程类别 Course Classified	课程性质 Course Nature	课程代码 Course Code	课程名称 Course Name	学时/学分 Hrs/Crs	其中 Including			各学期学时 Hours Distribution in a Semester										
					课外 Extra-cur.	实验 Exp.	上机 Operation	一	二	三	四	五	六	七	八			
								1st	2nd	3rd	4th	5th	6th	7th	8th			
通识教育基础课程 B General Education Fundamental Course	必修 Required	0301901	思想道德修养与法律基础 Morals & Ethics & Fundamentals of Law	48/3	12			48										
	必修 Required	0100721	中国近现代史纲要 Survey of Modern Chinese History	32/2	8			32										
	必修 Required	0100881	马克思主义基本原理 Basic Theory of Marxism	48/3	12			48										
	必修 Required	0100931	思政课社会实践 Social Practice of Ideological and Political Theories Course	32/2	28			4										
	必修 Required	0100321	毛泽东思想和中国特色社会主义理论体系概论 General Introduction to Mao Zedong Thought and Socialist Theory with Chinese Characteristics	64/4						64								
	必修 Required	0100741	形势与政策 Current Affairs and Policy	32/2	14			3	3	3	3	3	3					
	必修 Required	0510071	中国语文 Chinese	32/2	10			22										
	必修 Required	0512351	基础英语（一） Fundamental English (I)	64/4				64										
	必修 Required	0512361	基础英语（二） Fundamental English (II)	64/4				64										
	必修 Required	0512371	基础英语（三） Fundamental English (III)	32/2						32								
	必修 Required	0512381	基础英语（四） Fundamental English (IV)	32/2							32							

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					课外 Extra-cur.	实验 Exp.	上机 Operation	一	二	三	四	五	六	七	八		
								1st	2nd	3rd	4th	5th	6th	7th	8th		
通识教育基础课程 Basic General Education Courses	必修 Required	0700011	微积分（一）上 Calculus (I)	88/5.5				88									
	必修 Required	0700012	微积分（一）下 Calculus (I)	88/5.5					88								
	必修 Required	0700048	大学物理（一） Physics (I)	64/4					64								
	必修 Required	0700049	大学物理（二） Physics (II)	64/4						64							
	必修 Required	0700041	物理实验（一） Physics Experiments (I)	32/2					32								
	必修 Required	0700042	物理实验（二） Physics Experiments (II)	24/1.5						24							
	必修 Required	0400111	大学体育（一） Physical Education(I)	32/1				32									
	必修 Required	0400121	大学体育（二） Physical Education(II)	32/1					32								
	必修 Required	0400131	大学体育（三） Physical Education(III)	32/1						32							
	必修 Required	0400141	大学体育（四） Physical Education(IV)	32/1							32						
	必修 Required	1200011	军事理论 Military Theory	16/1				16									
	必修 Required	0800171	大学计算机基础 Fundamentals of computer technology	32/2			12	32									
	必修 Required	0700051	线性代数（一） Linear Algebra (I)	40/2.5				40									
	必修 Required	0700063	概率论与数理统计(三) Probability and Mathematics Statistics (III)	40/2.5					40								
	必修 Required	0700071	复变函数与积分变换 Complex Function and Integral Transform	40/2.5						40							
	必修 Required	0800294	计算方法（二） Computational Methodology(II)	32/2							32						
				人文社科类选修课程 Electives in Humanities and Social Science	160/10												
必修 Required	0801663	工程制图（一） Engineering Graphics (I)	40/2.5				40										
必修 Required	0810011	C语言程序设计 Advanced Programming Language (C)	56/3.5			20	56										

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					课外 Extra-cur.	实验 Exp.	上机 Operation	一	二	三	四	五	六	七	八	
								1st	2nd	3rd	4th	5th	6th	7th	8th	
B 学科基础课程 Discipline Foundation Courses	必修 Required	1102282	现代物流导论 Introduction to Modern Logistics	16/1						16						
	必修 Required	0812141	电路理论(五) Circuit Theory (V)	64/4		10				64						
	必修 Required	0800413	数据结构 Data Structure	48/3			12			48						
	必修 Required	0702411	运筹学(一) Operational Research (I)	32/2						32						
	必修 Required	0820087	数据库技术及应用 Database Technology and Application	32/2							32					
	必修 Required	0800141	计算机网络 Computer Network	48/3		8					48					
	必修 Required	0800203	电子技术 Electronic Technology	80/5		24					80					
B 学科基础课程 Discipline Foundation Courses	必修 Required	0702421	运筹学(二) Operational Research (II)	32/2			4				32					
	必修 Required	1103601	企业生产与物流管理 Production and Logistics Management	40/2.5							40					
	必修 Required	1103611	库存管理 Inventory Management	40/2.5							40					
	必修 Required	0700343	系统工程 Systems Engineering	32/2							32					
	必修 Required	0800301	微机原理 Principle of Microcomputer	64/4		8						64				
	必修 Required	0810552	控制原理 Control Theory	56/3.5		8						56				
	必修 Required	1100041	管理信息系统 Management Information System	48/3			16					48				
	必修 Required	0804151	传感器与检测技术 Sensor and Detecting Technology	48/3		8						48				
	必修 Required	0811421	物流系统仿真 Logistics System Simulation	32/2									32			
	必修 Required	1102291	物流装备与自动化系统 Logistics Equipment and Automation system	48/3		16								48		
	必修 Required	1101321	现代物流配送 Modern Distribution	32/2										32		
	必修 Required	1102351	运输学 Introduction to Transportation	32/2											32	

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					课外 Extra-cur.	实验 Exp.	上机 Operation	一	二	三	四	五	六	七	八		
								1st	2nd	3rd	4th	5th	6th	7th	8th		
Common Core Courses 专业课程·专业核心	必修 Required	1102302	物流信息技术 Logistics Information Technology	40/2.5		8						40					
	必修 Required	1103621	物流服务运作管理 Operations Management of Logistics Service	32/2								32					
	必修 Required	1101061	采购与供应管理 Purchase and Supply Management	24/1.5										24			
	必修 Required	1100112	电子商务 Electronic Business	32/2											32		
	必修 Required	1103691	物流系统规划 Logistics System Planning	32/2											32		
	必修 Required	0802682	可编程控制器 Programmable Logic Controller	32/2		12									32		
Specialty Courses 专业课程·专业方向			专业方向选修课程 Electives in Specialty	136/ 8.5													
	选修 Elective	0700322	数学建模 Mathematic Modeling	32/2						32							
	选修 Elective	1102152	物流产业经济分析 Economic Analysis on Logistics Industry	32/2											32		
	选修 Elective	0809121	Java程序设计 Java Programming	40/2.5			16			40							
	选修 Elective	1102162	调度理论与方法 Scheduling Theory and Algorithms	32/2								32					
	选修 Elective	0812071	博弈论 Game Theory	32/2							32						
	选修 Elective	0812061	工程管理 Engineering Management	32/2										32			
	选修 Elective	0812922	光电技术 Photoelectric Technology	40/2.5										40			
	选修 Elective	0812051	互联网技术及应用 Internet Technology and Application	32/2			8				32						
	选修 Elective	1102192	预测 Forecasting	16/1											16		
	选修 Elective	1102141	国际物流学(双语) International Logistics (Bilingual)	32/2											32		
	选修 Elective	0804251	智能控制 Intelligent Control	32/2												32	
	选修 Elective	0804441	模式识别 Pattern Recognition	32/2													32



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					课外 Extra-cur.	实验 Exp.	上机 Operation	一	二	三	四	五	六	七	八	
								1st	2nd	3rd	4th	5th	6th	7th	8th	
	选修 Elective	0200511	工程经济学 Engineering Economics	32/2							32					
	选修 Elective	0812781	机器人原理 Principle of Robotics	24/1.5											24	
	选修 Elective	0812042	信息安全 Information Security	24/1.5											24	
	选修 Elective	0706081	智能计算 Intelligent Computing	32/2											32	
	选修 Elective	0803174	软件工程 Software Engineering	24/1.5			8				24					
				管理学院相关课程												
实践环节 Internship and Practical Training	必修 Required	1300012	军事训练 Military Training	2w/2				2w								
	必修 Required	1302161	课程设计(C语言程序设计) Course Project (Programming Language C)	2w/2					2w							
	必修 Required	1300032	电工实习 Electrical Engineering Practice	2w/2						2w						
	必修 Required	1302171	课程设计(管理信息系统) Course Project (Management Information System)	4w/4							4w					
	必修 Required	1300082	生产实习 Engineering Internship	2w/2									2w			
	必修 Required	1300423	课程设计(物流系统) Course Project (Logistics System)	4w/4								4w				
	必修 Required	1300066	毕业设计(论文) Undergraduate Thesis	16w/16												16w