

German Jordanian University
School of Management and Logistics Sciences
Department of Logistics Sciences

Study Plan
Logistics Sciences

Academic Year 2015~2016

General Information

Classification	Credit Hours		
	Compulsory	Elective	Total
1. University Requirements	24	6	30
2. School Requirements	24	0	24
3. Program Requirements	94	12	106
Total	142	18	160

1. University Requirements [30 Credit Hours]

1.1 Compulsory				[24 Credit Hours]	
Course ID	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
ARB99	Arabic I	0	3	0	-
ARB100	Arabic II	3	3	0	-
ENGL98	English I	0	0	3	-
ENGL99	English II	0	0	3	ENGL98
ENGL101	English III	1	0	3	ENGL99
ENGL102	English IV	1	0	3	ENGL101
ENGL201	English V	2	0	3	ENGL102
ENGL202	English VI	2	0	3	ENGL201
GERL101	German I	3	0	9	-
GERL102	German II	3	0	9	GERL101
GERL201	German III	3	0	6	GERL102
NE101	National Education	3	3	0	-
MILS 100	Military Sciences	3	3	0	-

1.2 Electives				[6 Credit Hours]	
Course ID	Course Title	Cr. Hr.	Lecture	Lab.	Prerequisite
BE302*	Business Entrepreneurship	3	3	0	-
DES101	Arts Appreciation	3	3	0	-
EI101	Leadership and Emotional Intelligence	3	3	0	-
IC 101	Intercultural Communications	3	3	0	-
SE 301	Social Entrepreneurship and Enterprise	3	3	0	-
SFTS 101	Soft Skills	3	3	0	-
TW303	Technical and Workplace writing	3	3	0	ENGL102
BE101	Sports and Health	3	3	0	-

(*) Students from the School of Management and Logistics Sciences cannot register for BE302

2. School Requirements**[24 Credit Hours]**

2.1 Compulsory						[24 Credit Hours]
Course ID	Course Title	Cr. Hr	Weekly Contact Hours			Prerequisite
			Lecture	Tutorial	Practical	
ACC 101	Principles of Accounting I	3	3	0	0	-
ACC 251	Fundamentals of Finance	3	3	0	0	ACC 101
GERL 202	German IV	3	0	6	0	GERL201
GERL 301	German V	3	0	9	0	GERL202
GERL 302	German VI	3	0	9	0	GERL301
LOGS 101	Introduction to Logistics	3	3	0	0	-
MGT 101	Principles of Management	3	3	0	0	-
MGT 213	Research Methods for Business	3	3	3	3	MGT122

3. Program Requirements**[106 Credit Hours]**

3.1 Compulsory						[94 Credit Hours]
Course ID	Course Title	Cr. Hr	Weekly Contact Hours			Prerequisite
			Lecture	Tutorial	Practical	
ACC 332	Management Accounting	3	3	0	0	ACC 101
MGT119	Computing Fundamentals for Business and Logistics	3	3	3	0	-
MGT1190	Computing Fundamentals for Business and Logistics - Lab	1				-
LOGS 121	Introduction to Supply Chain Management	3	3	0	0	LOGS101
LOGS 211	Purchasing Strategies	3	3	0	0	LOGS 121
LOGS 212	Transportation and Technology Management	3	3	0	0	LOGS 121
LOGS 220	Operations and Production Management	3	3	0	0	LOGS 101, MGT 224
LOGS 222	Export and Import Management	3	3	0	0	LOGS 212
LOGS 311	Design and Operations of Logistics Systems	3	3	0	0	LOGS 212
LOGS 312	Warehouse Management and Optimization	3	3	0	0	LOGS 220
LOGS 313	Inventory Management and Control	3	3	0	0	LOGS 220
LOGS 314	Supplier-Customer Relationship Management	3	3	0	0	LOGS 121
LOGS 321	Green Logistics	3	3	0	0	LOGS 212, LOGS 211
LOGS 327	Humanitarian Logistics	3	3	0	0	LOGS 121, LOGS 220
LOGS 391	Field Training*	0	0	0	0	Department Approval
LOGS 411	Retail Logistics Management	3	3	0	0	LOGS 121,
LOGS 460	Contemporary Issues in Logistics	3	3	0	0	LOGS 311, MGT 213
LOGS 492	International Internship	12	0	0	36	LOGS 391 + Dep. Approval

MGT 122	Business Statistics	3	3	0	0	-
MGT 126	Fundamentals of Microeconomics	3	3	0	0	-
MGT 211	Organizational Behavior	3	3	0	0	MGT 101
MGT 222	Managing Technology and Information	3	3	0	0	MGT 101, CS119
MGT 224	Quantitative Analysis for Business	3	3	0	0	MGT 122
MGT 329	E-Business and E-Commerce Management	3	3	0	0	MGT 222
MGT 315	Business Law	3	3	-	-	MGT 101
MGT 318	Financial Management	3	3	0	0	ACC 251
MGT 314	Human Resources Management	3	3	0	0	MGT 211
MGT 327	Contracting and Negotiation Management	3	3	0	0	MGT 315
MGT 414	International Business & Globalization	3	3	0	0	MGT 324
MGT 418	Quality Management	3	3	0	0	MGT 224

* Students must complete 160 hours of field training in approved industries in Jordan by the end of their third academic year and before leaving to Germany.

3.2 Elective						[12 Credit Hours]
Course ID	Course Title	Cr. Hr	Weekly Contact Hours			Prerequisite
			Lecture	Tutorial	Practical	
ACC 231	Fundamentals of Cost Accounting	3	3	-	-	LOGS 492
ACC 424	Financial Statement Analysis	3	3	-	-	LOGS 492
LOGS 431	Sustainable Supply Chain Management	3	3	0	0	LOGS 492
LOGS 442	Logistics Information Systems	3	3	-	-	LOGS 492
LOGS 443	Supply Chain Performance Evaluation and Improvement	3	3	-	-	LOGS 492
LOGS 545	Hospital Logistics	3	3	-	-	LOGS 492
LOGS 598A	Special Topics in Logistics	1	1	-	-	LOGS 492
LOGS 598B	Special Topics in Logistics	2	2	-	-	LOGS 492
LOGS 598C	Special Topics in Logistics	3	3	-	-	LOGS 492
MGT 124	Fundamentals of Marketing	3	3	-	-	LOGS 492
MGT 313	Knowledge Management	3	3	0	0	LOGS 492
MGT 316	Business Ethics	3	3	-	-	LOGS 492
MGT 322	Consumer Behaviour	3	3	-	-	LOGS 492
MGT 328	Project Management & Planning	3	3	0	0	LOGS 492
MGT 354	Marketing Management	3	3	0	0	LOGS 492
MGT 412	Corporate Strategies and Policies	3	3	0	0	LOGS 492
MGT 416	Organizational Development & Change	3	3	0	0	LOGS 492
MGT 420	Systems Analyses and Design for Business	3	3	0	0	LOGS 492
MGT 481	International Trade Agreements and Contracting	3	3	0	0	LOGS 492

Students can be taken ONLY when fail in Germany in one course or more.

Course Descriptions

LOGS312: Warehouse Management and Optimization

3 CR

This course is designed to help students understand warehouse functions, processes, organization and operations. It includes analysis of warehouse location, operations, management, control, procedures, finance, security, cargo/materials handling, and productivity. By the completion of this course students should be able to:

- Analyze issues involved in locating warehouses.
- Examine warehouse operating and service procedures.
- Assess financial analysis of warehouse operations.
- Discuss warehouse security issues.
- Analyze warehouse handling systems.
- Assess warehouse utilization metrics and productivity improvement methods.
- Organize warehouse space, equipments, and personnel for maximum efficiency and customer satisfaction.
- Develop a Warehouse Information System Plan to manage and control receiving, storing, picking, and shipping operations for the lowest possible minimization of losses.
- Select the best combination of materials-handling and storage equipment.

LOGS313: Inventory Management and Control

3 CR

This course aims to introduce students to the fundamental nature of inventory from a financial, physical, forecasting, and operational standpoint. The ultimate goal of this course is to present immediately usable information in the areas of forecasting, physical controlling and layout, problem recognition and resolution. By the completion of this course students should be able to:

- Understand the modern practice discouraging the holding of large inventory quantities.
- Grasp the significance of controlling actual, on-hand inventory as both a physical object (shelf count) and as an intangible object (record count and monetary worth).
- Understand the fundamental differences between finished goods inventories in the retail/distribution sectors and raw materials and work-in-process inventories found in the manufacturing environment.
- Understand basic formulas to calculate inventory quantities.
- Employ basic problem-solving techniques toward issue resolution.

LOGS411: Retail Logistics Management**3 CR**

This course aims to enhance students' knowledge in shipping management, operation and the implication that goes beyond the 'shipping' context. This course will explain the functioning of the shipping market, examining the strategic and operational issues that affect entrepreneurs in this industry. This course also encompasses global trends and strategies in the shipping business, looking at the role of logistics service providers and the importance of information technology in supporting shipping operations. Retail logistics discusses retail management and takes a closer look at marketing and management issues involved in retail business. Beginning with an emphasis on relationship building and consumer behavior, this course focuses on the specific elements of retail strategy including: planning storage locations, managing a retail business, planning, handling, and pricing merchandise, communicating with the customer, and integrating and analyzing a retailing strategy. By the completion of this course students should be able to:

- Understand the shipping markets.
- Understand freight rates determination.
- Understand shipping cost structures.
- Understand the patterns of sea transport.
- Understand how companies in the shipping industry operate.
- Understand to become effective retail planners and decision-makers.
- Develop and apply a retail strategy.
- Learn about the mission, goals, consumer market, overall and specific activities, and control mechanisms that are involved in a successful strategy.

LOGS321:Green Logistics**3 CR**

This course aims to enhance students' knowledge in the major green logistics principles, practices, and its environmental impact on logistical operations from lean production to reverse logistics. It introduces students to the basic concepts of green logistics practices including an analysis of a green applications and carbon footprint credits for companies. This course encompass a discussion in the role of regulations concerning product take back policies, life cycle assessment, international environmental standard such as ISO 14000, and the impact of legislations and policies on logistics practices and reverse logistics network design. Closed-Loop Supply Chains (CLSC) may offer companies a unique opportunity to improve their profits on one hand and to serve societal responsibility on the other hand. The management of CLSC differs in a number of ways exploring supply chains management in general. By the completion of this course students should be able to:

- Develop an understanding of the concepts, and principles that underlie green logistics, especially with regard to the management of recycling and closed-loop-manufacturing, and logistics systems.
- Be aware of the logistics' and supply chain impact on environment and appreciate the importance of recycling, green logistics and environmental issues in logistics and supply chain from the strategic perspective.
- To gain an understanding in performance measures necessary to capture green logistics practices.
- To gain a sound knowledge in areas of environmental assessment methods and tools, and international environmental standards.
- Understand the principle of a preferred green purchasing.

- Discuss the importance of green logistics in today's world.
- Review and comprehend best practices in green logistics.
- Describe and review green application through the supply chain.
- Comprehend Carbon footprint and Carbon credits for companies.

LOGS311: Design and Operations of Logistics Systems	3 CR
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This course helps students to understand the purpose, scope and role of logistics in support of international trade. Students will be exposed to issues surrounding the location of distribution centers, the optimal number of distribution centers, the design of logistics operations, and the role of ports in logistics and supply chain management. By the completion of this course, the student should be able to:

- Define logistics and supply chain management in an international context.
- Understand the role of logistics/supply chain in supporting international marketing activities.
- Understand the concept and practice of intermodalism and its impact on trade.
- Understand the impact of logistics/supply chain activities on international business strategies.
- Understand the role of insurance coverage in the international movement of goods.
- Understand the critical issues to be included in a contract for logistics services
- Negotiate service contract issues.

LOGS222: Export and Import Management	3 CR
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This course gives attention to the knowledge, skills and insights needed to manage imports and exports either in a comprehensive trading company or in a department of a company that depends on sourcing or exporting to achieve its strategic objectives. This course covers the major facets of the import-export transactions and procedures required to successfully do business overseas. The focus is on practical applications, ranging from understanding the objectives of parties involved in importing and exporting to basics of letters of credit, packaging, and transporting shipments. The course discusses cross-cultural differences, role of banks and freight forwarders, foreign currency management, and documents used in international trade. By the completion of this course, the student should be able to:

- Understand the guiding principles of import-export management.
- Learn how to effectively research, write, and present as a team a business proposal for an import/export product or service.
- Learn how to analyze geographic regions to identify potential locations to establish an import-export business enterprise.
- Gain an understanding of the technical and legal aspects of working in an import-export business/industry environment.

LOGS 101: Introduction to Logistics**3 CR**

This course sets out to provide an understanding of how logistics could fit in an organization. It defines the concept supply chain and how it relates to logistics. The relation between marketing and logistics will also be considered. It provides an introduction to a wide range of logistics activities such as materials handling, purchasing, storage, inventory and forecasting, transport systems and distribution systems. It also provides an understanding of the role of information technology in improving the efficiency of logistics operations. An overview of some contemporary topic in logistics such as third-party logistics providers reverse logistics will be provided. By the completion of this course, the student should be able to:

- Gain an overview of supply chain concepts and jargons.
- Understand the various roles and activities of logistics in supply chain.
- Develop and implement a relationship model amongst the supply chain including outsourcing.

LOGS 121: Introduction to Supply Chain Management**3 CR**

Supply chain management extends the study of logistics beyond the boundaries of a single organization, and places particular emphasis on the interfaces between the 'chain' or 'network' of enterprises engaged in moving products, services, and information, from suppliers through intermediaries to end users/ consumers. The course focuses on developing a supply chain strategy, something which many organizations still do not have in place even today. Channel relationships between processors, manufacturers, and distributors will also be reviewed, particularly as leading organizations are now openly embracing more collaborative behavior for mutual benefit. By the completion of this course, the student should be able to:

- Develop an understanding of the key drivers of supply chain performance and their inter-relationships with strategy and other functions of the company such as marketing, manufacturing and accounting.
- Impart analytical and problem solving skills necessary to develop solutions for a variety of supply chain management and design problems, and develop an understanding for use of information technology in supply chain optimization.
- Understand the complexity of inter-firm and intra-firm coordination in implementing programs such as e-collaboration, quick response, jointly managed inventories and strategic alliances.
- Develop the ability to design logistics systems and formulate integrated supply chain strategy, so that all components are not only internally synchronized but also tuned to fit corporate strategy, competitive realities and market needs.
- Understand which information should be exchanged in a supply chain and how it should be used to benefit the entire supply chain.
- Identify improvement opportunities that exist within supply chains in different industries and to quantify the improvements that various supply chain strategies offer.
To understand which barriers companies face during the implementation of new supply chain strategies.

LOGS 220: Operations and Production Management**3 CR**

This course is designed to introduce the students to the concepts, principles and practices in the field of operations management and its relationships with other functions in an organization. In addition, this course attempts to provide techniques required for the effective management of operations in both service and manufacturing organizations. Students will benefit from understanding the role of operations management in organizations. By the completion of this course, the student should be able to:

- Define operations management, heritage, role it plays in different types of organizations, and describe the careers opportunities in operations management.
- Identify the ten decisions of operation management.
- Describe some specific approaches used by operation manager to implement the strategies of differentiation, low cost, and response.
- Identify the core concepts and understand the strategic decision making in designing goods and services.
- Define process strategies and describe the process analysis, service design, green manufacturing, and production technology.
- Define capacity and describe how to design capacity and measure its effectiveness.
- Identify the objectives of location strategy, and identify the international location issues, clustering, and the geographic information systems.
- Identify the concepts related to the layout strategy.

LOGS 212: Transportation and Technology Management**3 CR**

The course is prepared to expose student to the major issues in the management of transportation. The course will examine the background and history of transportation, emphasizing the fundamental role and importance the industry plays in companies, society, and the environment in which transportation service is provided. The course will also provide an overview of carrier operations, management, technology, and the strategic principles for the successful management of different modes of transportation. By the completion of this course, students should be able to:

- Demonstrate the importance of transportation to the firm, supply chain, and economy.
- Discuss the characteristics, advantages, and disadvantages of motor carriers, railroads, air carriers, water carriers, and pipelines.
- Explain the different types of intermodal and special carriers.
- Understand methods and strategies used by carriers and shippers.
- Develop knowledge about the international trade terms and the role of transportation in the global marketplace.

LOG 211: Purchasing Strategies**3 CR**

The primary aim of this course is to get students acquainted with the fundamental concepts, models and instruments in procurement management. Key areas like buying supplies, inbound logistics, contracts, and interfaces with stock and inventory control will be covered. In this course, students will follow the procurement or purchasing cycle from its inception through bid solicitation, proposal receipt, evaluation, negotiation, and contract. Students will also learn how to develop and implement a successful purchasing strategy, select the best suppliers, and employ effective negotiating techniques. Students have to understand that the responsibilities for purchasing today extend far beyond the purchase order and can require financial, manufacturing, engineering, or quality expertise. By the completion of this course, the student should be able to:

- Make the necessary settings for consumption-based planning.
- Use special functions of purchasing.
- Operate with the functions of logistics invoice verification.
- Perform all basic purchasing functions.
- Establish an effective purchasing system.
- Identify the best suppliers.
- Reduce costs for the company.
- Understand interfaces with other activities.
- Identify how purchasing impacts company profitability.

LOGS 322: Humanitarian Logistics**3 CR**

The primary aim of this course is to get students acquainted with the fundamental concepts of disaster management. Logistics is one of the most critical components to successful humanitarian assistance, characterized by the efficient and effective delivery of the right assistance to the right beneficiaries at the right time. This course will prepare students for roles ranging from planning, managing, implementing and controlling the flow and storage of goods, material, cost and information along the entire emergency supply chain for the purpose of relief and alleviating the suffering of people in places with disasters.

LOGS 413: Contemporary Issues in Logistics**3 CR**

The primary aim of this course is to bring modern logistics theory to life packed with the latest theory, solid fundamentals, and countless real-world examples. This course explores the various modern logistics industries ranging from textile, tourism, hospital, etc. Contemporary issues in logistics course enables students to use their cognitive knowledge in these industries and apply them to the mandatory fieldwork accompanied with this course and academic research based on the skilled earned from studying research methodology.