Applied Logistics, MPS

Admissions to this program begin Fall 2023.

The Master of Professional Studies in Applied Logistics is built to prepare students to be agile in the changing warehousing and distribution industry. As a central pillar of the program, students will study how to handle challenges that arise quickly and develop leadership and project management skills to help communicate to customers, avoid reactionary responses, work collaboratively to find a solution, and to effectively communicate across the supply chain and with customers. By integrating systems thinking with training in the technical applications in logistics, students will gain well-rounded experience that allows them to understand and adapt to strategic imperatives while also being able to execute in detail. The program aims to develop proficiency in descriptive analytics and the use of real-time data to optimize routing among distribution centers and fulfill orders in response to changing customer profiles, shifting product sales, disruptions in the supplier network, and customer demand for packaging changes.

Program Requirements

Complete all courses and requirements listed below unless otherwise indicated.

Core Courses

Code	Title	Hours
APL 6000	Foundations of Applied Logistics Execution	3
APL 6010	Warehouse Management	3
APL 6020	Freight Management	3
APL 6030	ERP Systems for Inventory Management	3

Capstone

Code	Title	Hours
APL 6980	Applied Logistics Capstone	3

The remaining quarter hours may be completed by a combination of completing a concentration and electives or selecting any courses listed in the concentrations and elective lists.

Concentrations

- Analytics (p. 2)
- Applied Machine Intelligence (p. 2)
- Leadership (p. 2)
- Project Management (p. 2)

Electives

Code	Title	Hours
APL 6050	Supplier Management	
APL 6100	Advanced Technology in Logistics and Distribution	
CMN 6040	Consumer Behaviors in the Online Environment	
CMN 6060	Negotiation, Mediation, and Facilitation	
INT 6943	Integrative Experiential Learning	
EAI 6020	AI System Technologies	
LDR 6110	Leading Teams Strategically in a Global Environment	
PJM 5900	Foundations of Project Management	
PJM 6185	Managing Innovation Projects	
PJM 6210	Communication Skills for Project Managers	
SMT 6060	Decision Support and Sales Analytics	

Program Credit/GPA Requirements

45 total quarter hours required
Minimum 3.000 GPA required

Concentrations

ANALYTICS CONCENTRATION

Code	Title	Hours
Required Courses		
ALY 6000	Introduction to Analytics	3
ALY 6010	Probability Theory and Introductory Statistics	3
ALY 6015	Intermediate Analytics	3
ALY 6070	Communication and Visualization for Data Analytics	3
Complete one of the following:		3
ALY 6020	Predictive Analytics	
ALY 6030	Data Warehousing and SQL	
ALY 6040	Data Mining Applications	
ALY 6110	Data Management and Big Data	

APPLIED MACHINE INTELLIGENCE CONCENTRATION

Code	Title	Hours
EAI 6000	Fundamentals of Artificial Intelligence	3
EAI 6010	Applications of Artificial Intelligence	3
EAI 6020	AI System Technologies	3
ALY 6040	Data Mining Applications	3
ALY 6110	Data Management and Big Data	3

LEADERSHIP CONCENTRATION

Code	Title	Hours
Required Courses		
LDR 6100	Developing Your Leadership Capability	3
LDR 6110	Leading Teams Strategically in a Global Environment	3
LDR 6120	Developing Organizational Success through Leadership Development	3
LDR 6150	Innovation and Organizational Transformation	3
Elective		
Complete one of the following:		3
LDR 6135	Ethical Leadership	
LDR 6140	Leadership Strategy, Design, and Practice	

PROJECT MANAGEMENT CONCENTRATION

Code	Title	Hours
Required Courses		
Note: Students with project management experience are not required to take PJM 5900:		
PJM 5900	Foundations of Project Management	4
PJM 6000	Project Management Practices	3
PJM 6015	Project Risk Management	3
PJM 6025	Project Scheduling and Cost Planning	3
Elective		
Complete one of the following (students who are not required to take PJM 5900, complete two of the following):		3-6
PJM 6125	Project Evaluation and Assessment	
PJM 6135	Project Quality Management	
PJM 6140	Managing Troubled Projects	
PJM 6710	Introduction to Program and Portfolio Management	